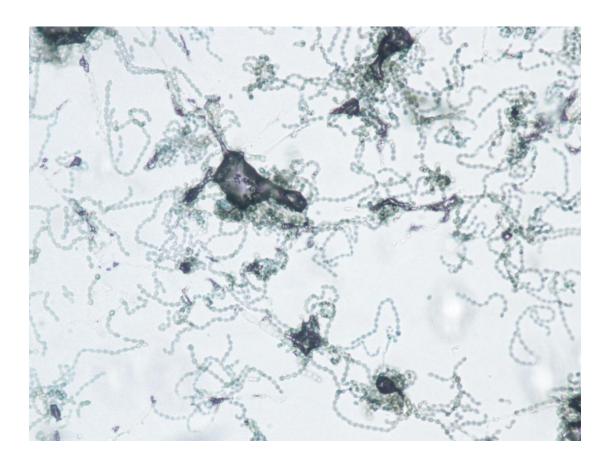


# Microbiology Services User Handbook



Authorised by: T Carey/C Frearson DCN: MIC-P-006-13.2
Date of issue: 12/12/2025 Page 1 of 187

Contents



# A – Z of tests A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

| 0 |            | Contents   | 2   |
|---|------------|--|-----|
| 1 |            | INTRODUCTION   | 4   |
| 2 |            | LABORATORY LOCATION                                      | 5   |
|   |            |  |     |
| 3 |            | PATHOLOGY QUALITY POLICY                                 |     |
| 4 |            | OPENING HOURS, CLINICAL ADVICE AND RESULTS               | 6   |
|   | 4.1        | Laboratory Opening Hours                                 |     |
|   | 4.2        | Clinical advice  |     |
|   | 4.2.1      | 5 11 11 11 1   |     |
|   | 4.2.2      |  |     |
|   | 4.3        | Urgent samples   |     |
|   | 4.4        | Testing out of hours                                     |     |
|   | 4.5        | Additional tests   |     |
|   | 4.6        | Results  |     |
|   | 4.7<br>4.8 | Telephone and emailed results  Turnaround times          |     |
|   | 4.8<br>4.9 | UKAS accreditation                                       |     |
|   |            |  |     |
| 5 |            | CONTACT DETAILS  | 10  |
| 6 |            | SAMPLE COLLECTION  | 10  |
|   | 6.1        | Preparation of patient                                   | 10  |
|   | 6.2        | Optimum time of and conditions for collection            | 11  |
|   | 6.3        | Health and safety issues pertaining to sample collection | 11  |
| 7 |            | SAMPLE CONTAINERS  | 12  |
|   | 7.1        | Supply of specimen containers                            | 12  |
|   | 7.2        | Selection of appropriate container                       |     |
|   | 7.3        | Labeling of sample containers                            |     |
| 8 |            | REQUESTING TESTS   | 14  |
|   | 8.1        | Handwritten request forms                                | 1/1 |
|   | 8.2        | Electronic requesting (ICE)                              |     |
|   | 8.3        | Anonymous/uniquely identified samples                    |     |
|   | 8.4        | Verbal requests  |     |
|   | 8.5        | Microbiology department request forms                    |     |
| 9 |            | TRANSPORTATION OF SAMPLES                                |     |
| , |            | Transportation of routine samples to the laboratory      | _   |
|   | 9.1        | rransportation of routine samples to the laboratory      | 18  |

Authorised by: T Carey/C Frearson

Date of issue: 12/12/2025

DCN: MIC-P-006-13.2 Page 2 of 187

| 9.2           | Transportation of urgent samples  | 18  |  |  |  |
|---------------|---|-----|--|--|--|
| 10            | HIGH RISK SAMPLES   |     |  |  |  |
| 11<br>confire | Samples from patients categorised as 'high possibility of VHF' and samples from pat |     |  |  |  |
| 12            | SAMPLE ACCEPTANCE CRITERIA  | 20  |  |  |  |
| 13            | REPERTOIRE OF TESTS (A – Z)   | 21  |  |  |  |
| 13.1<br>13.2  |   |     |  |  |  |
| 13.3          |   |     |  |  |  |
| 14            | REFERENCE LABORATORIES  | 180 |  |  |  |
| 15            | PATIENT CONSENT DISCLOSURE  | 185 |  |  |  |
| 15.1<br>15.2  | , , , ,   |     |  |  |  |
| 15.3          | Medico-legal samples  | 186 |  |  |  |
| 15.4<br>15.5  |   |     |  |  |  |
| 16            | FEEDBACK ON OUR MICROBIOLOGY SERVICE AND COMPLAINTS PROCEDURE                       | 187 |  |  |  |



### 1 INTRODUCTION

The Clinical Microbiology Service is provided by the laboratories at the Great Western Hospital NHS Foundation Trust, Swindon, providing a formulary of tests reflecting the usual demands of a District General hospital service. Specialist and Reference test services are used where necessary.

Microbiology services are provided on a 24-hour basis, with a routine service available between 09:00 and 17:00 Monday to Friday, 08:00 and 13:00 on Saturday and 08:45 and 12:30 on Sunday and bank holidays (see <u>Laboratory Opening Hours</u>). The laboratory provides an on-call bacteriology service outside of these hours. Virology services are provided Monday to Friday 09:00 to 17:00.

Consultant advice is available during routine service hours and on an on-call basis outside of routine hours.

We provide an analytical and interpretative service on a wide range of clinical samples, processing over 270,000 requests each year. The efficiency of the service we provide is reliant on the cooperation of our users with the necessary policies relating to safety, sample transport and sample identification.

In its pursuit of excellence and as part of its continuous quality improvement programme the Microbiology department participates in all relevant internal and external quality assurance schemes. All laboratory work is carried out on up-to-date equipment in a modern laboratory which meets with all statutory requirements of a quality management system.

The repertoire of tests provided by Microbiology support the Trust in its diagnostic and screening programmes.

The laboratory is accredited by the Institute of Biomedical Science (IBMS) for Biomedical Scientist training and Biomedical Scientist Specialist training. We also support the University of Bristol in the provision of clinical undergraduate training and the development of junior doctors at Great Western Hospital.

The Pathology services are fully computerised with all laboratories using Clinisys WinPath laboratory information system. Pathology results are available electronically via the Trust network at ward level or via the GP electronics links. Hard copies can be made available on request.

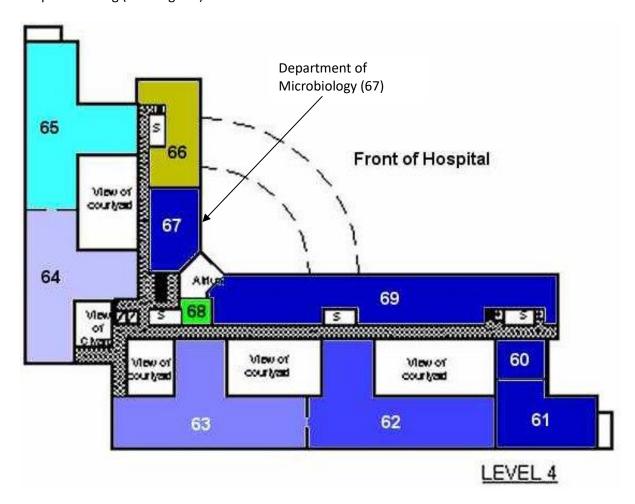
We hope that this handbook contains all the information you require to use our service. However, please feel free to contact us to discuss any problems or issues you may have. Any comments or suggestions about the User Handbook should be addressed to <a href="mailto:GWH.Microbiology@nhs.net">GWH.Microbiology@nhs.net</a>.

Authorised by: T Carey/C Frearson DCN: MIC-P-006-13.2 Date of issue: 12/12/2025 Page 4 of 187



### 2 LABORATORY LOCATION

The Microbiology Department is part of the Clinical Support and Specialist Services Division, within the Great Western Hospitals NHS Foundation Trust. The department is sited on the fourth floor of the main hospital building (see diagram).



The postal address is as follows:

Department of Microbiology Great Western Hospitals NHS Foundation Trust The Great Western Hospital Marlborough Road Swindon The DX address is as follows:

The Great Western Hospital Department of Microbiology DX6130100 Swindon 90 SN

Authorised by: T Carey/C Frearson

Date of issue: 12/12/2025

Wiltshire SN3 6BB

DCN: MIC-P-006-13.2 Page 5 of 187

THIS DOCUMENT IS UNCONTROLLED WHEN PRINTED



### 3 PATHOLOGY QUALITY POLICY

The management of the Pathology Department is committed to delivering a service that is compliant with the requirements for Medical Laboratories set by the International Standard Organisation (UKAS ISO 15189:2012), Health and Safety Executive (HSE), UK Health Security Agency (UKHSA) - including the ANNB antenatal and new-born screening programmes for the participation in sickle cell and thalassaemia screening (SCT) and infectious diseases in pregnancy screening programme (IDPS), Medicines and Healthcare Products Regulatory Agency (MHRA) and the Human Tissue Authority (HTA).

The Pathology management team is fully committed to the on-going development and improvement of laboratory services through the continual assessment of the Pathology Quality Management System and the establishment by means of regular meetings, internal and external audits, annual review of quality objectives during the Pathology Annual Management Review, participation in the Trust Improving Together programme and collaborative work with network partners within the South 4 Pathology Network

The full Quality Policy (PAT-P-012) can be found in the Pathology Quality Manual (PAT-Q-003) on the Intranet and on the Quality Board within the department. A copy may be requested from the Pathology Quality Manager on a case-by-case basis.

### 4 OPENING HOURS, CLINICAL ADVICE AND RESULTS

### 4.1 Laboratory Opening Hours

The laboratory is open:

Monday to Friday: 08:45 – 17:15 (Laboratory), 0900 – 1700 (Clinical advice)

Saturday: 0800 - 1300Sunday: 0845 - 1230Bank Holidays: 0845 - 1230

Authorised by: T Carey/C Frearson DCN: MIC-P-006-13.2
Date of issue: 12/12/2025 Page 6 of 187



### Clinical advice 4.2

Consultation about investigation and management of infections is welcomed. For advice on diagnosis and the interpretation of Microbiology results, use of antimicrobials or infection control (including the use of containment facilities) consultant advice is available during normal working hours and on an oncall basis at all other times.

# **4.2.1** For advice during normal working hours:

Please fill out the template below and email to <a href="mailto:GWH.Microbiology@nhs.net">GWH.Microbiology@nhs.net</a>.

| Clinician Name                  |  |
|---------------------------------|--|
| Extension/Bleep number          |  |
| (or email if preferred)         |  |
| Ward Location/GP practice       |  |
| Patient Full Name               |  |
| Patient hospital/NHS number     |  |
| Clinical Details/Nature of call |  |

Clinical advice is given verbally on a call back basis, in which the urgency of calls is triaged by the Microbiology Consultant.

### **4.2.2** For advice out of hours:

Telephone 01793 604020 (switchboard) and ask for the duty Consultant Medical Microbiologist.

PLEASE NOTE: Out-of-hours email requests will not be picked up until the next working day (Monday-Friday)

- Internal users, please refer to the antibiotic guidelines, in the first instance, for the commoner microbiology enquiries. These are available on the intranet at the Antibiotic Home Page.
- New or junior doctors should discuss queries with their own clinical team, before calling the Medical Microbiologist.
- For Infection Control advice alone, the Infection Control Nurses can be contacted on 01793 604554, or via switchboard.

### 4.3 Urgent samples

If a result is required urgently and the sample will arrive during normal working hours the laboratory **MUST** be notified by telephone so that we can prioritise the request.

Please ensure that the requesting clinician contact details are provided as part of the request to enable the result to be telephoned if required.

Authorised by: T Carey/C Frearson DCN: MIC-P-006-13.2 Date of issue: 12/12/2025

Page 7 of 187



### 4.4 Testing out of hours

The on-call service is available outside of normal Laboratory opening hours.

The Microbiology out of hours service is an urgent service. The Biomedical Scientists carry out on-call off site and will travel in for urgent specimens only. On-call Biomedical Scientists are not able to look up results or inform you whether samples have been received.

Please ensure you call the on-call Biomedical Scientist upon taking the following urgent specimens:

- Cerebrospinal fluid (CSF)
- Peritoneal dialysis (PD) fluid
- Fluids from sterile sites (joint fluids, pleural fluids, ascitic fluids etc.)
- Tissue samples
- Corneal Scrapes
- Urines (only paediatric samples after 12am)

The use of the service should be restricted to those samples where it is essential to have a result before the next routine session.

Samples that have not been called ahead are at risk of not being processed within the appropriate time frame.

To contact the on-call Biomedical Scientist telephone 01793 604020 (switchboard) and ask for the oncall Biomedical Scientist for Microbiology.

### Additional tests 4.5

All tests should be requested at the time of submitting the sample to the laboratory. However, amendments to requests, or the need for additional tests, can still be discussed with the laboratory after processing has started.

In general, additional tests must be requested within 48 hours of sample receipt within the laboratory. In some cases, additional tests may not be possible, and a fresh sample will be required. Further advice can be obtained from the laboratory.

### 4.6 Results

Pathology results are available electronically immediately after authorisation, these can be viewed via Careflow, ICE or GP systems.

All laboratory results are returned to the requesting clinician who has ultimate responsibility for ensuring that all results are actioned and communicated to the patient as appropriate.

In cases of difficulty or further clarification, the laboratory enquiry telephone number is 01793 604798.

Authorised by: T Carey/C Frearson DCN: MIC-P-006-13.2 Date of issue: 12/12/2025



Please note that we need to establish the caller's identity before giving results over the telephone. We are unable to give results directly to patients or their relatives.

General culture results are available 24 hours after sample receipt (at the earliest), and antibiotic susceptibility results after a further 24 hours. For samples such as blood cultures and CSF, the Medical Microbiologist will usually inform the clinicians of initial significant results as soon as they are known.

In general, results are not available until they have been authorised. In exceptional circumstances, preliminary results may be available direct from the relevant laboratory. However, please bear in mind that this may delay the testing of other samples.

# Telephone and emailed results

Results of urgent requests and results which may aid the immediate patient management will be telephoned. This includes all positive blood cultures, positive CSFs, significant C. difficle results on inpatients and significant results processed on-call.

The laboratory will endeavor to call or email the following results:

- Growth of group B streptococcus from pregnant women
- Growth of group A streptococcus on all patients
- Growth of Campylobacter species, Salmonella species and Shigella species on pediatric patients <2 years of age
- Significant infection control results (MRSA, CRE)
- Significant C. difficile results on GP patients

All other results will only be telephoned or emailed on request.

### 4.8 **Turnaround times**

The laboratory continually monitors its turnaround times to ensure that it complies with its responsibilities within the patient pathway. The laboratory measures its turnaround times as the time from receipt until the point at which the result is authorised (at this point the result is available through direct enquiry and is available for transmission via GP links).

The expected turnaround times for each test are indicated as part of the Test Repertoire. For detailed turnaround times for each test and actual performance, please contact the laboratory.

Interrogation of the electronic systems allows for full audit of the reception, testing and reporting process, including time of report viewing and report printing.

Authorised by: T Carey/C Frearson DCN: MIC-P-006-13.2 Date of issue: 12/12/2025



### 4.9 UKAS accreditation

The laboratory's UKAS accreditation is currently under temporary suspension, and we are diligently undertaking all necessary actions to restore full accreditation at the earliest opportunity

When referring samples off site to external providers we endeavor to ensure reference laboratories are UKAS accredited. For details on our external laboratories and their accreditation status please see Reference Laboratories.

### 5 CONTACT DETAILS

| Position               | External Number | Internal Number | Email Address            |
|------------------------|-----------------|-----------------|--------------------------|
| Bacteriology Enquiries | 01793 604798    | 4798            | GWH.Microbiology@nhs.net |
| Virology Enquiries     | 01793 604799    | 4799            | GWH.Serology@nhs.net     |
| Laboratory             | 01793 604798    | 4798            | GWH.Microbiology@nhs.net |
| Hospital switchboard   | 01793 604020    | 0               |                          |

If you require to speak to a specific member of the team, please call the appropriate number listed above and you will be redirected.

### **6 SAMPLE COLLECTION**

### 6.1 Preparation of patient

Date of issue: 12/12/2025

Adequate privacy during reception and sampling should be available as appropriate to the type of information being requested and primary sample being collected. Before taking any samples, verification of the patient's identity must be carried out and where relevant it should be recorded that the patient meets any pre-examination requirements (see Test Repertoire).

Information for patients regarding tests performed, including instruction for preparation of the patient and instructions for patient-collected samples, can be accessed at the 'Lab Tests Online UK' website.

For details of the Laboratory Policy on protection of personal information, patient consent, medico-legal samples and the Human Tissue Act refer to <u>Patient Consent Disclosure</u>.

Authorised by: T Carey/C Frearson DCN: MIC-P-006-13.2

Page 10 of 187



### Optimum time of and conditions for collection

Samples for bacterial culture, wherever possible, should be collected prior to commencement of antibiotic treatment. Actual pus or tissue samples are always preferable to a swab. For specific sampling guidance, refer to the Test Repertoire.

To avoid inadvertent contamination of a specimen during collection, an aseptic technique must be used; always use universal precautions, wash hands and wear appropriate personal protective clothing. Decontamination of the sampling site or equipment may be necessary e.g. skin antisepsis before taking blood cultures or Cerebrospinal fluid (CSF), or catheter port antisepsis before collecting a specimen of urine via a catheter (CSU).

Specimens must be collected into sterile containers with close fitting lids (refer to Selection of appropriate container). The specimen must be clearly labelled (refer to Labelling of Specimen Containers).

Please send separate samples when tests are needed across different departments or sections. For example, submit individual urine samples for both culture and osmolarity or protein-creatinine ratio or separate CSF samples for culture and protein/glucose analysis. Similarly, within the Microbiology department, provide distinct samples when requesting multiple tests, such as separate specimens for faecal culture and faecal calprotectin, or for urine culture and urine CMV PCR. This approach helps ensure accurate testing and faster processing. Ensure all samples labelled and unequivocally linked to a patient and request (refer to Labelling of Specimen Containers).

### 6.3 Health and safety issues pertaining to sample collection

Every clinical specimen sent for microbiology examination should be treated as potentially infectious. Standard precautions must be always observed. Use aseptic technique.

With patients known to be infected, or if there is a strong suspicion that they may be infected with a high-risk organism (e.g. tuberculosis), then procedures likely to produce aerosols must be conducted whilst wearing face masks, goggles or full facial visors as appropriate. Such investigations include cough inducing procedures and lancing of an abscess.

Once collected, place the specimen into a plastic specimen bag and seal the bag. Wash your hands and dispose of clinical waste into a yellow clinical waste collection bag. Sharps must be disposed of safely. Used sharps must be disposed of according to Trust policy (see Safe Handling and Disposal of Sharps Policy & Guidelines). This is the responsibility of the individual(s) who generates them.

It is the responsibility of the person collecting the specimen to ensure that it is properly labelled and safe for transportation (see <u>Transportation of Samples</u>).

Refer to appropriate Trust policies for further information:

- Hand Hygiene and Skin Care Policy (including scrubbing gowning and gloving)
- Standard Infection Control Precautions Policy
- Safe Handling and Disposal of Sharps Policy & Guidelines
- TRANSPORTATION OF SAMPLES

Authorised by: T Carey/C Frearson DCN: MIC-P-006-13.2 Date of issue: 12/12/2025



# **7 SAMPLE CONTAINERS**

### 7.1 Supply of specimen containers

The following Microbiology consumables can be obtained from the following locations:

| Consumable   | Description  | Issue from   |
|--|--|--|
| The second secon | Green form (non-blood Microbiology requests, excluding Blood Cultures) For locations that do not have access to ICE only | Materials Management Team                            |
|  | Ref form (blood Microbiology requests) For locations that do not have access to ICE only                                 | Materials Management Team                            |
| 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1  | Yellow form (MRSA admission screen requests) For locations that do not have access to ICE only                           | Materials Management Team                            |
| Urine 2  | Universal containers for urine microscopy and culture Yellow – hospital locations Green (boric acid) – GPs               | Materials Management Team                            |
| ₩ Ø + YouMindentration OE Q  | Bacteriology swabs in Amies transport swab   | Materials Management Team                            |
| MINES  | Pernasal swab for whooping cough   | Microbiology Department                              |
| ### ( The Table 2)   | Charcoal urethral swab for <i>N. gonorrhoeae</i> culture   | Materials Management Team                            |
| To and the same of | Virus swabs in virus transport medium  | Materials Management Team<br>Microbiology Department |
| 41 1 1   | Faeces container   | Materials Management Team                            |
|  | Universal containers (sterile and empty)   | Materials Management Team                            |
| F 5 1 1 1  | Sputum container   | Materials Management Team                            |
| Face Company (1976)  Open Service Company (1976)   | Collection kits for HSV, C. trachomatis, N. gonorrhoeae NAATs  | Materials Management Team                            |
| Francisco - The Control of the Contr | Collection kits for <i>C. trachomatis</i> , <i>N. gonorrhoeae</i> NAATs  | Materials Management Team                            |
| 23 Primario di mari peri del 192   | Vacutainer tubes for blood samples (Serology)  | Materials Management Team                            |
| 231 PAR POR 22   | Vacutainer tubes for blood samples<br>(Lithium Heparin – 6ml)  | Materials Management Team                            |
| DESCRIPTION OF THE PROPERTY OF | Vacutainer tubes for blood samples (PCR)   | Materials Management Team                            |
| TO DESCRIPTION OF THE PROPERTY | Blood culture bottles Pink = paediatric (single bottle) Grey (aerobic) and purple (anaerobic) = adult set                | Pathology Reception                                  |
|  | ParaClick Pin worm collection kits   | Microbiology Department                              |

Authorised by: T Carey/C Frearson

Date of issue: 12/12/2025

DCN: MIC-P-006-13.2

Page 12 of 187



### Selection of appropriate container

Please see Repertoire Index for the selection of appropriate container for test.

Sample containers must be CE or UKCA marked. Specimen containers must be leak proof and sufficiently robust to withstand stresses during transit. Only containers approved by the Microbiology Department may be used to ensure sample integrity during transit to the Laboratory. Samples that are sent in non-approved containers may not be processed by the Laboratory. It is the responsibility of the person sending the sample to the Laboratory to ensure that the container used for transportation is appropriate.

The container must be adequately closed to avoid leakage. Samples that have leaked in transit may not be processed by the Laboratory.

### 7.3 **Labeling of sample containers**

Clinical governance requires that where paper request forms are used the sample container must be labelled with sufficient information to provide an unequivocal link with the request form and the patient from whom they are collected. Clinicians using electronic requesting must ensure that test(s) are correctly requested on the appropriate system and generated label(s) are affixed to sample container(s) to provide an unequivocal link between the sample(s) and the patient from whom they are collected. When making multiple electronic requests, make sure to put the **correct label** on each of the samples.

Pre-printed addressograph labels are acceptable on sample containers for Microbiology investigations if they are accompanied by a paper request form.

### Minimum Data Set for Identification:

- Patient's surname
- Patient's forename (initial is acceptable)
- Date of birth and /or district number / NHS number

### Additional requirements:

- Identity of the person collecting the primary
- Sample collection date and time
- Sample type/site of collection

For antibiotic assay levels the following information must be given where appropriate:

- Whether dose is Pre/Post/Random
- mg of last dose given
- Date and time of last dose
- Date and time that sample was taken

Failure to comply with correct guidance may result in the sample being rejected by the Microbiology department (refer to Sample Acceptance Criteria).

Multiple samples taken at different times on a patient MUST be labelled on the sample container with the time (24 hr clock) when the sample is taken. The request form should be labelled accordingly.

Authorised by: T Carey/C Frearson DCN: MIC-P-006-13.2 Date of issue: 12/12/2025

Page 13 of 187



### 8 **REQUESTING TESTS**

All samples must be accompanied by a properly completed paper request form or electronic request. The Microbiology Department encourages the use of electronic requesting in the hospital. Failure to comply with correct guidance may result in the sample being rejected (refer to Sample Acceptance Criteria).

Please ensure that all relevant clinical details, including antibiotic therapy, are included so informed clinical and technical advice can be given if required. The absence of this information may result in inability to give informed clinical interpretation of results.

Acceptance of a testing request by the laboratory acts as an agreement with the requestor. This means that a contract is established between the laboratory and the requester when the laboratory accepts a request. This will apply whether the request is written or electronic.

### 8.1 Handwritten request forms

Minimum Data Set for Identification:

- District number and/or NHS number
- Patient surname and forename (in full, not initials)
- Date of birth (DOB)
- Patient address if district number/NHS number not supplied

In addition to the minimum data set for patient identification please ensure all other relevant fields are completed:

- Ward/ Practice, Consultant/GP
- Patient address
- Patient gender
- Date and time of collection
- Specimen type
- Investigation(s) required

- Name of requesting clinician and bleep number
- Relevant clinical details \*
- Current drug therapy
- Copy reports, if required
- Patient category (PP/AQP/NHS)
- \* To ensure samples can be safely and appropriately tested in the laboratory, information including details of foreign travel, symptoms and known or suspected contact with other patients known to have communicable disease is important. For example, samples likely to contain high risk pathogens as described by the Advisory Committee for Dangerous Pathogens (refer to ACDP guidance) are handled at a higher containment level to safeguard both laboratory staff and other downstream workers (refer to High Risk Samples). The information is also of benefit to the patient ensuring that appropriate testing is performed.

Unnecessary confidential patient information, for example HIV, Hepatitis B or C status, should not be disclosed on the request form unless pertinent to the investigations required.

Authorised by: T Carey/C Frearson DCN: MIC-P-006-13.2 Date of issue: 12/12/2025

Page 14 of 187



It is essential to use a ballpoint pen when completing request forms. Use of felt tip and fountain pens can lead to delay in processing samples, or requests being missed altogether, as carbon copies are often incomplete. When addressograph labels are used, please ensure that a label is fixed to EACH part of the request form.

### 8.2 Electronic requesting (ICE)

Please use electronic requesting (ICE) order-comms where available.

When using the electronic requesting system please ensure that you order the correct test and select the correct sample type as failure to do so may lead to incorrect testing. The ICE requesting system will show those tests most requested for the Microbiology Service; should the test you require not be visible please contact the laboratory to check that the test is available.

The information required is the same as that required on a handwritten request form and should include clinical details and symptoms, as well as information on antibiotic use, foreign travel, outbreaks, date of onset, etc.

Where ICE requesting is not available handwritten request forms must be used.

### 8.3 Anonymous/uniquely identified samples

In certain circumstances patient identification details are intentionally hidden or substituted with ID numbers (for example, Sexual Health, donor samples, samples from unconscious or incoherent patients). In such instances, a properly coded identifier must be used in place of the patient last name and first name.

### **Unidentified Patients**

Samples from unconscious or incoherent patients should be labelled with "UNKNOWN MALE OR FEMALE" and the emergency unit number.

All request forms must be signed.

### **GUM Patients**

Where Patient name is not appropriate, then GUM number, patient gender and DOB is acceptable.

### 8.4 Verbal requests

Verbal requests are not accepted by the Microbiology Department except for urgent samples and additional tests for samples already received within the laboratory. This is to ensure that all samples are accompanied by a properly completed request form and be unequivocally traceable by request and labelling to an identified patient or site.

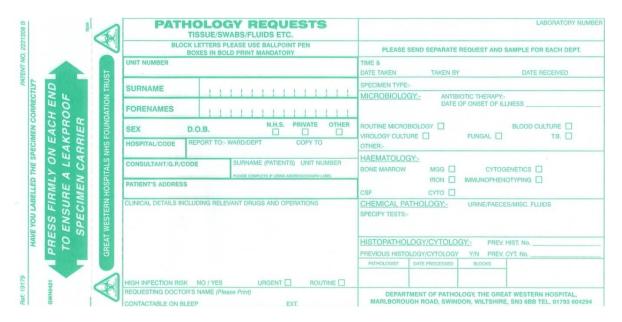
Authorised by: T Carey/C Frearson DCN: MIC-P-006-13.2 Date of issue: 12/12/2025



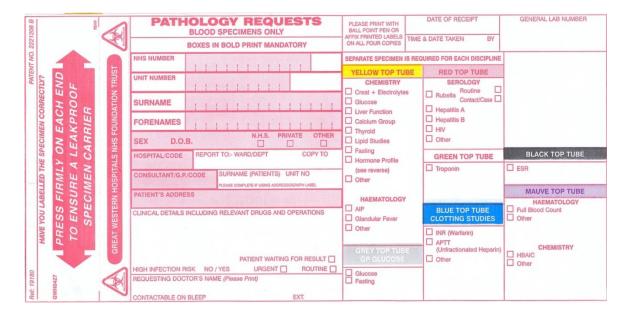
### Microbiology department request forms 8.5

The following request forms are used by the Microbiology department (please do not mix with samples for other departments):

### **GREEN FORM (NON-BLOOD MICROBIOLOGY REQUESTS, EXCLUDING BLOOD CULTURES)**



### **RED FORM (BLOOD MICROBIOLOGY REQUESTS)**



Authorised by: T Carey/C Frearson DCN: MIC-P-006-13.2 Date of issue: 12/12/2025

Page 16 of 187



# YELLOW FORM (MRSA ADMISSION SCREEN REQUESTS)

|                       |                            |  | Pathology Red                             | quests    |                          |                    | MRSA Admis       | sion Screening Form  |
|-----------------------|----------------------------|--|---|-----------|--------------------------|--------------------|------------------|--|
| TLY?                  |                            | West of the second   | Specimens submitted on this form will ONL |           | n will <b>ONLY</b> be te | ested for MRSA     | Date Taken:      | Time Taken:  |
| SPECIMEN CORRECTLY?   | 1                          |  | Unit Number                               |           |                          |                    | Taken By:        | Bleep / Ext:   |
| MEN C                 | END<br>OF                  | FORM   | Surname                                   |           |                          |                    | Specimen Types ( | max 4 per form)  |
| SPECI                 | EACH<br>KPRO<br>RIER       | 1000000  | Forename(s)                               |           |                          |                    | Туре:            | Lab No.:   |
|                       | T .                        | SCREENING  | Sex                                       |           | DOB                      |                    |                  |  |
|                       | Y ON<br>A LEA<br>I CAF     | 10000000   | Ward                                      |           | Consultant               |                    | Type:            | Lab No.:   |
|                       | FIRML<br>SURE ,<br>CIMEN   | ADMISSION  | Screen Type (pleas                        | e tick)   |                          |                    |                  |  |
| ED THE                | SS FIRI<br>ENSUR<br>SPECIM | ADMI   | Elective admission s                      | creen     | [                        |                    | Туре:            | Lab No.:   |
| ABELLE                | PRESS<br>TO ENS<br>SPE     | MRSA A   | Emergency admission                       | on screen |                          |                    |                  |  |
| HAVE YOU LABELLED THE | 4                          | Z  |   |           |                          |                    | Туре:            | Lab No.:   |
| HAVE                  |                            |  | For Lab Use Only                          |           |                          |                    |                  |  |
|                       |                            | The state of the s |   |           | MSCF                     | <b>           </b> |                  | robiology, The Great Western Hospital,<br>d, Swindon, SN3 6BB (01793) 604798 |

Authorised by: T Carey/C Frearson DCN: MIC-P-006-13.2 Date of issue: 12/12/2025

THIS DOCUMENT IS UNCONTROLLED WHEN PRINTED



### TRANSPORTATION OF SAMPLES

Please refer to the Trust Specimen Transportation Policy for the correct procedures for submitting samples to the laboratory.

### Transportation of routine samples to the laboratory 9.1

All sample containers for transport to the Laboratory must be sealed in a plastic bag attached to the request form.

Samples for microbiological investigation should be examined as soon as possible after collection to avoid compromising results. Samples may be transported via normal portering rounds during the normal working day.

Where this is not practicable due to delays in transportation samples should be kept refrigerated. Samples may be kept in a refrigerator at a temperature of 4-8°C for a maximum of 24 hours prior to transportation. There is a refrigerator in Pathology Reception for non-urgent samples that arrive outside the normal opening hours.

Samples taken for blood culture examination MUST NOT be refrigerated. These must be transported to the Laboratory as soon as possible for incubation at 37°C.

Certain samples may be sent direct to the laboratories using the pneumatic chute system:

Pathology address: 104 Microbiology address: 102

For transportation of samples to the laboratory from external sites or by post, and use of the pneumatic chute system, please refer to the Trust Specimen Transportation Policy.

In cases of difficulty or further clarification, the laboratory enquiry telephone number is 01793 604798.

### 9.2 **Transportation of urgent samples**

Urgent samples must be sent to the laboratory immediately and arrangements made with the portering service.

To discuss an urgent sample with the duty Biomedical Scientist: telephone 01793 604020 (switchboard) and ask for the duty Biomedical Scientist.

Authorised by: T Carey/C Frearson DCN: MIC-P-006-13.2 Date of issue: 12/12/2025

Page 18 of 187



### **10 HIGH RISK SAMPLES**

All samples should be regarded as potentially infectious.

Certain samples from patients who are known or suspected to have the following diseases/conditions constitute a potential higher risk of infection to persons handling the samples:

- Typhoid/paratyphoid fever (faecal samples only)
- Dysentery (faecal samples only)
- Tuberculosis (samples from sites where tuberculosis infection is likely)
- Anthrax
- Brucellosis

- Transmissible Spongiform Encephalopathy (including CJD)
- Viral haemorrhagic fever
- Avian Flu
- MERS/SARS respiratory syndrome, including SARS-CoV2

To minimise the risks ensure that such samples are packaged as follows:

- Attach a "Danger of Infection" label to the sample container and request form for all qualifying samples (available from Phlebotomy Department, GWH)
- Specify the nature of the risk on the request form
- Use unambiguous and commonly recognised terminology
- Place the sample in a sealable plastic bag and close the seal

This is a necessary procedure to safeguard both laboratory staff and other downstream workers. The labels must be used in accordance with the Trust Specimen Transportation Policy

Samples thought to constitute a risk to laboratory staff because of inadequate packaging or warning may be rejected.

The Consultant Microbiologist must be contacted BEFORE collecting samples from a patient suspected of having a viral haemorrhagic fever, human avian influenza, MERS/SARS or CJD. require special transport arrangements and specialist laboratories designed for containment during manipulation of samples and cultures.

These lists are not exhaustive and rarely other biological agents that can cause severe human disease, and present a serious hazard to employees, may be present in samples. If there is any suspicion of a high-risk atypical organism advice on sample collection and transport should be sought from the Consultant Microbiologist.

# 11 Samples from patients categorised as 'high possibility of VHF' and samples from patients with confirmed vhf

Instructions for sample transportation of suspected VHF samples are defined in the Trust Specimen Transportation Policy and are formulated in line with current ACDP guidance.

Authorised by: T Carey/C Frearson DCN: MIC-P-006-13.2 Date of issue: 12/12/2025

Page 19 of 187



The laboratory MUST be notified prior to receipt of all samples. In cases of difficulty or further clarification, the laboratory enquiry telephone number is 01793 604798.

### 12 SAMPLE ACCEPTANCE CRITERIA

Sample acceptance criteria ensure adequate identification for Microbiology samples and their requests for them to be accepted by the laboratory for analysis.

The laboratory will make every effort to ensure requests are processed in a safe and timely manner, but it is essential that requests and samples are labelled appropriately and legibly in compliance with this It is also important to clearly identify the investigations required with relevant supporting information. Inadequate or inaccurate labelling may cause delays in producing Microbiology results and hence impact patient care. If you have any doubts regarding this policy, please ring the relevant department for further information.

The requesting clinician is responsible for the correct completion of the request (whether this be electronic or paper) and the correct labelling of the sample. It is recommended that patient collected samples (e.g. urine, stools) are labelled first by the requesting clinician to minimise the risk of labelling errors.

It is the requester's responsibility to ensure that all details are correct, clearly written and that the sample details match those on the form and patient wrist band (if applicable).

Any labelling discrepancy will be included on the Microbiology report.

Samples will **not** be accepted for analysis if:

- There is no unique identification of the patient i.e. they do not meet the minimum data set for identification
- There is an incorrect sample type or tube
- Incorrect transportation conditions
- Sample is received in a hazardous condition e.g. leaking or sharps attached
- Sample or request form is unlabelled or incorrectly labelled with less than the minimum data sets for patient identification
- Mismatch of details between the form and sample(s)
- The information provided is illegible

Inadequately or inaccurately labelled samples or forms will not be accepted unless they are unrepeatable or reproducible. A classification of unrepeatable or unreproducible will be made by the Consultant Microbiologist and/or Microbiology Management staff on an individual basis. The risk to the patient of rejection of the sample will be weighed against the risk of acceptance of a wrongly labelled sample. Microbiology will accept no responsibility for samples analysed which initially failed to meet the acceptance criteria and will issue a disclaimer on such reports.

Where the sample is repeatable/ reproducible, no analysis will be performed, and an appropriate comment will be included on the Microbiology report. The event may be reported as an incident on the Trust incident report system.

Authorised by: T Carey/C Frearson DCN: MIC-P-006-13.2 Date of issue: 12/12/2025



# 13 REPERTOIRE OF TESTS (A - Z)

This section covers the tests that the Microbiology department offers according to the service repertoire agreed with our users. Costs of tests may be made available on request to the Laboratory Manager.

Find a test or clinical condition using the  $\underline{A-Z list}$ . With each test we provide the following information where appropriate:

- Name of test
- Examinations offered

Which sample containers are required

What specimen type is required

What sample volume is required

Which request form should be used

Sample instructions

Collection of the specimen

Specimen transportation requirements

Specimen storage requirements

Special requirements for performing this examination

Laboratory information

What test will be performed

Measurement units of examination performed

Biological reference intervals of examination performed

Turnaround time of examination performed

When the test is available

Clinical information

Factors known to significantly affect the results

For more information on any of these tests see the 'Lab Tests Online' UK website. Almost all examinations are based on NICE accredited UK Standards for Microbiology Investigations (SMI) hosted by Royal College of Pathologists.

### 13.1 Reference Intervals

Reference intervals for any test are specific to that test and laboratory methodology. Reference intervals will be displayed with the patient results taking these factors into account.

These will be available, whether the result is sent via paper, through ward/web enquiries or via the electronic links to General Practice.

### 13.2 Referred Tests

The laboratory provides a range of specialist testing which is undertaken at reference centres. These tests are indicated within this section. Please contact the laboratory on Telephone 01793 604798 for details of the tests offered, name and location of the testing laboratory and information regarding any special sample requirements.

Authorised by: T Carey/C Frearson DCN: MIC-P-006-13.2 Date of issue: 12/12/2025 Page 21 of 187

Department of Microbiology



The parameters analysed in referred tests and any reference ranges for these parameters will be displayed on the report when it is returned to the requestor.

Authorised by: T Carey/C Frearson DCN: MIC-P-006-13.2
Date of issue: 12/12/2025 Page 22 of 187



### 13.3 Repertoire index

# A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

### Α

Abscesses and deep-seated wound infections

Adenovirus PCR

Amniotic fluid

Amoebic serology

Antenatal serology

Antibiotic levels

Anti-streptolysin (ASO) titres

Aspergillus PCR

Aspergillus serology

Astrovirus

Atypical pneumonia

Avian influenza

### B

Bacteraemia

Bacteriuria

Bartonella serology

B-glucan test

**Biopsies** 

**BK virus PCR** 

**Blepharitis** 

**Blood cultures** 

Blood culture collection

Bordetella pertussis culture

Bordetella pertussis PCR

Borrelia burgdorferi (Lyme) antibody

Brucella serology

**Burns** 

Bursa fluid

### C

Candidosis

Carbapenemase-producing Enterobacteriaceae (CPE) screen

Cellulitis

Chicken pox (diagnostic)

Chicken pox IgG (immunity)

Chicken pox PCR

Chikunguna, Murray, Ross River, O.Tsusu, Sandfly

Chlamydia trachomatis antibody

Chlamydia trachomatis PCR

Authorised by: T Carey/C Frearson

Date of issue: 12/12/2025

DCN: MIC-P-006-13.2 Page 23 of 187

THIS DOCUMENT IS UNCONTROLLED WHEN PRINTED



Chlamydia trachomatis PCR – collection of urine sample

Chlamydia trachomatis PCR – collection of vaginal sample

Chlamydia LGV PCR

Clostridium difficile toxin

Clostridium difficile toxin ribotyping

Conjunctivitis

**Contact lens** 

Continuous ambulatory peritoneal dialysis (CAPD) fluid

Corneal scrape

Cough swab

COVID-19 PCR

CPE screen

Cryptococcal antigen

CSF (Cerebrospinal fluid) microscopy and culture

CSF (Cerebrospinal fluid) virology PCR

Culture

Culture: Wounds (deep-seated)

Culture: Wounds (skin, superficial, non-surgical)

Cystic fibrosis

Cytomegalovirus (CMV) serology Cytomegalovirus (CMV) PCR

### D

Dermatological specimens – hair, skin, nails Dengue and West Nile virus Diphtheria serology Dysuria

### E

Ear swab culture

Ebola

**Enteric virus PCR** 

**Enterovirus PCR** 

Epstein Barr virus (EBV) serology

Epstein Barr virus (EBV) PCR

Eye and canalicular pus culture

### F

Faeces culture

Faeces: Calprotectin

Faeces: Clostridium difficile Faeces: Enteric virus panel

Faeces: Norovirus Faeces: Parasitology Faeces: Rotavirus

Fluids from normally sterile sites

Authorised by: T Carey/C Frearson DCN: MIC-P-006-13.2 Date of issue: 12/12/2025

Page 24 of 187



### **Folliculitis**

### G

Genital swab culture (female) Genital specimens (excluding female genital swabs) Glucan (Mycology)

### Н

Haematuria Haemophilus influenzae PCR Helicobacter pylori IgG

Helicobacter pylori antigen

Hepatitis A virus (HAV) IgG

Hepatitis A virus (HAV) IgM

Hepatitis B virus (HBV) confirmation

Hepatitis B virus (HBV) core IgG antibody

Hepatitis B virus (HBV) core IgM antibody

Hepatitis B virus (HBV) surface antibody

Hepatitis B virus (HBV) surface antigen

Hepatitis B virus (HBV) viral load (PCR)

Hepatitis C virus (HCV) antibody

Hepatitis C virus (HCV) confirmation

Hepatitis C virus (HCV) genotype

Hepatitis C virus (HCV) qualitative PCR

Hepatitis C virus (HCV) viral load

Hepatitis D (delta) virus antibody

Hepatitis E (HEV) IgM & IgG

Hepatitis E (HEV) PCR

Herpes simplex virus (HSV) antibody

Herpes simplex virus (HSV) type 1 and 2 PCR

HIV-1 and 2 antigen/antibodies and p24 antigen

**HIV** confirmation

HIV resistance, integrase, tropism

HIV vertical transmission (neonates)

HIV viral load (PCR)

Human Herpes 6 (HHV) PCR

Human T lymphotrophic virus (HTLV) 1 and 2 serology

Hydatid serology

Impetigo Infective endocarditis Influenza A Influenza B Intravascular cannulae

Authorised by: T Carey/C Frearson DCN: MIC-P-006-13.2 Date of issue: 12/12/2025

Page 25 of 187



### J

JC virus PCR Joint fluid

### K

Legionella urinary antigen Leptospira serology Lyme disease

### M

Measles (diagnostic) Measles IgG (immunity) Meningitis Meningococcal antibody Meningococcal PCR Metapneumonvirus Mouth swab MPox **MRSA** Mumps (diagnostic) Mumps IgG (immunity) Mycobacteria Mycobacteria PCR Mycology Mycology PCR Mycology serology Mycoplasma genitalium Mycoplasma pneumoniae

### N

Neisseria gonorrhoeae PCR Neonatal sepsis Norovirus PCR Nose swab

### 0

Otitis externa Otitis media Ova, cysts and parasites

### P

Panfungal PCR (18S) Pan-valentine leukocidin (PVL) toxin detection

Authorised by: T Carey/C Frearson DCN: MIC-P-006-13.2 Date of issue: 12/12/2025

Page 26 of 187



Parainfluenza virus

Parasitology (Bilharzia/Schistosoma haematobium)

Parasitology (Pinworm)

Parasitology (serology)

Parasitology (Stool)

Parasitology (Worm identification)

Paronychia

**Parotitis** 

Parvovirus PCR

Parvovirus serology

Pericardial fluid

Peritoneal dialysis fluid (PDF)

Peritoneal fluid

Pharyngitis

Pleural fluid

Pneumococcal PCR

Pneumococcal serology

Pneumococcal urinary antigen

Pneumocystis (IF)

Polyoma viruses (BK)

Polyoma viruses (JC)

Prosthetic valve endocarditis

Pseudomonas serology

Pus

Pyuria

### Q

Q fever serology

### R

Respiratory samples for culture

Respiratory syncytial virus (RSV)

Respiratory virus PCR

Rhinovirus

Rotavirus

Rubella (diagnostic)

Rubella IgG (immunity)

### S

Sapovirus

Sepsis

Skin, superficial, non-surgical wounds

Sputum

Sterile fluid

Streptococcal serology (ASO)

Streptococcus pneumonia serology

DCN: MIC-P-006-13.2 Authorised by: T Carey/C Frearson Date of issue: 12/12/2025

Page 27 of 187



Syphilis antibody Syphilis confirmation

### Т

TB examination TSPOT.TB (latent TB testing) Throat swab Tips/intravascular cannulae Tissues and biopsies Toxoplasma (diagnostic) Toxoplasma IgG (immunity) Treponema pallidum antibody Treponema palldium confirmation Treponema pallidum PCR

### U

Ulcers Urinary tract infection Urines (microscopy and culture)

### V

Varizella zoster virus (VZV) IgG (immunity) Varicella zoster virus (VZV) PCR Viral haemorrhagic fever (VHF) Virus isolation

### W

West Nile virus Whooping cough Wounds (skin, superficial, non-surgical) Wounds (deep-seated)

### X

Y

# Z

Zika virus

Authorised by: T Carey/C Frearson DCN: MIC-P-006-13.2 Date of issue: 12/12/2025

Page 28 of 187



# Abscesses and deep-seated wound infections

Abscesses are accumulations of pus in the tissues and any organism isolated from them may be of significance. They occur in many parts of the body as superficial infections or as deep-seated infections associated with any internal organ.

| Examinations offered                           |  |   |                         |
|--|--|---|-------------------------|
| Collection container                           | Specimen   | Sample volume   | Request form            |
|  | Collection of pus or exudate   | Minimum volume 1ml of pus   |                         |
| O BD columbus Mars   O   D                     | Amies transport swab   | Swabs should be well soaked in pus  |                         |
| Sample instructions                            |  |   |                         |
| Collection                                     | Collection of pus or e   | refore antimicrobial therapy sexudate is always preferable to ample the deepest part of the | o swabs, except when in |
| Specimen transport                             | Specimen transport Specimens should be sent to the laboratory without delay during normal working hours. |   |                         |
| Storage requirements                           | Outside of normal wo<br>Delays of over 48 hou  | orking hours samples should urs are undesirable.  | be refrigerated.        |
| Special requirements                           | Important to indicate  | e site and nature of lesion.  |                         |
| Laboratory information                         |  |   |                         |
| Tests  | quantitative) (pus).   | tion of gram positive and neg<br>I characterisation of aerobic,<br>anisms (qualitative).    |                         |
| Measurement units                              | Growth detected or r   | not detected.   |                         |
| Biological reference units                     |  |   |                         |
| Turnaround time                                | 4 days, plus 2 days fo   | r enrichment culture (pus).   |                         |
| Availability                                   | Routine hours and or   | n-call (pus).   |                         |
| Clinical information                           |  |   |                         |
| Factors known to significan affect the results |  | robes is compromised if tran ion may affect the recovery c                                  | •                       |

# **Back to index**

Authorised by: T Carey/C Frearson

Date of issue: 12/12/2025

DCN: MIC-P-006-13.2 Page 29 of 187



# **Adenovirus PCR**

Diagnosis of acute disease.

| Examinations offered                            |  |  |  |
|---|--|--|--|
| Collection container                            | Specimen   | Sample volume  | Request form   |
|   | EDTA blood   | Minimum volume 500µl   | *** The state of t |
| e B   | Eye swab (virus transport medium)                                    |  | Compared to the compared to    |
| 40 11 11 11                                     | Stool sample   | <20ml  |  |
| Sample instructions                             |  |  |  |
| Collection                                      | membranes.<br>Faeces specimen m                                      | top) swab of vesicle fluid or<br>ay be passed into a clean, do<br>nd transferred to an appropr   | ry, disposable bedpan or   |
| Specimen transport                              | Specimens should be working hours.                                   | pe sent to the laboratory wit  | hout delay during normal   |
| Storage requirements                            | Outside of normal v  | working hours samples shoul  | d be refrigerated.   |
| Special requirements                            | Clinical details are   | essential for processing.  |  |
| Laboratory information                          |  |  |  |
| Tests   | laboratory on Teler<br>parameters analyse                            | ed at an external reference on the common of | er details are required. The nce ranges for these  |
| Measurement units                               |  |  |  |
| Biological reference units                      |  |  |  |
| Turnaround time                                 | 14 days  |  |  |
| Availability                                    | Routine hours.   |  |  |
| Clinical information                            |  |  |  |
| Factors known to significate affect the results | inappropriate timin<br>ntly of organism below<br>detection of an ass | y occur for a variety of reasong of sample collection, inappethe detectable limit of the asystem will restants may also occur which  | propriate sample, presence<br>ssay. Towards the limit of<br>sult in lower reproducibility  |

**Back to index** 

Authorised by: T Carey/C Frearson

Date of issue: 12/12/2025

DCN: MIC-P-006-13.2 Page 30 of 187

CHARACTIC HALCONITO CHED MAHEN DOINITED



# **Amoebic serology**

Used to determine past or current infection.

| Examinations offered                           |                               |  |                                |  |
|--|-------------------------------|--|--------------------------------|--|
| Collection container                           | Specimen                      | Sample volume  | Request form                   |  |
|  | Venous blood                  | 2 – 6 mls  |                                |  |
| Sample instructions                            |                               |  |                                |  |
| Collection                                     | No special red                | quirements.  |                                |  |
| Specimen transport                             | Specimens sh<br>working hour  |  | ry without delay during normal |  |
| Storage requirements                           | Outside of no                 | rmal working hours samples   | should be refrigerated.        |  |
| Special requirements                           | Clinical detail               | s and date of onset are esser  | ntial for processing.          |  |
| Laboratory information                         |                               |  |                                |  |
| Tests  | laboratory on<br>parameters a | This test is processed at an external reference centre. Contact the laboratory on Telephone 01793 604798 if further details are required. The parameters analysed in this test and any reference ranges for these parameters will be displayed on the report when it is returned to the requestor. |                                |  |
| Measurement units                              |                               |  |                                |  |
| Biological reference units                     |                               |  |                                |  |
| Turnaround time                                | 14 days.                      |  |                                |  |
| Availability                                   | Routine hour                  | S.   |                                |  |
| Clinical information                           |                               |  |                                |  |
| Factors known to significan affect the results | Haemolysis.                   |  |                                |  |

# **Back to index**

Authorised by: T Carey/C Frearson

Date of issue: 12/12/2025

DCN: MIC-P-006-13.2 Page 31 of 187



# **Antenatal serology**

Infectious Disease in Pregnancy (IDP) screening.

| Examinations offered   |                              |   |   |  |
|--|------------------------------|---|---|--|
| Collection container   | Specimen                     | Sample volume   | Request form  |  |
|  | Venous blood                 | 2 – 6 mls   | Use an antenatal screening department approved request form |  |
| Sample instructions  |                              |   |   |  |
| Collection   | No special requ              | uirements.  |   |  |
| Specimen transport   | Specimens sho working hours. | Specimens should be sent to the laboratory without delay during normal working hours.   |   |  |
| Storage requirements   | Outside of nor               | mal working hours samples s   | hould be refrigerated.                                      |  |
| Special requirements   | by the patient               | Requests for blood borne virus testing must be clearly indicated as accepted by the patient and signed by the requesting clinician.  Remaining serum sample stored for 2 years. |   |  |
| Laboratory information   |                              |   |   |  |
| Tests  | Detection of HI              | epatitis B surface antigen (qu<br>V-1 and 2 antibodies and HI<br>eponema pallidum antibody  | V antigen (qualitative)                                     |  |
| Measurement units  |                              |   |   |  |
| Biological reference units                                     |                              |   |   |  |
| Turnaround time  | 7 days.                      |   |   |  |
| Availability   | Routine hours.               |   |   |  |
| Clinical information   |                              |   |   |  |
| Factors known to significantly affect the results  Haemolysis. |                              |   |   |  |

# **Back to index**

Authorised by: T Carey/C Frearson

Date of issue: 12/12/2025

DCN: MIC-P-006-13.2 Page 32 of 187

THIS DOCUMENT IS UNCONTROLLED WHEN PRINTED



# **Antibiotic levels**

| Examinations offered |   |                               |                   |  |  |
|----------------------|---|-------------------------------|-------------------|--|--|
| Collection container | Specimen  | Sample volume                 | Request form      |  |  |
|                      | Venous blood  | 2 – 6 mls                     |                   |  |  |
| Sample instructions  |   |                               |                   |  |  |
| Collection           | No special rec  | uirements.                    |                   |  |  |
| Specimen transport   | Specimens should be sent to the laboratory without delay during normal working hours.         |                               |                   |  |  |
| Storage requirements | Outside of normal working hours samples should be refrigerated.                               |                               |                   |  |  |
|                      | Urgent requests and out of hours requests must be discussed with the Microbiology Consultant. |                               |                   |  |  |
|                      | Please state:  • Whether pre-dose, post-dose or random dose.                                  |                               |                   |  |  |
|                      | mg of last dose given   |                               |                   |  |  |
| Special requirements | <ul> <li>Date and time of last dose</li> </ul>  |                               |                   |  |  |
| openia requirement   | Date and time that sample was taken   |                               |                   |  |  |
|                      | Gentamicin and Vancomycin assays:   |                               |                   |  |  |
|                      | These are per   | formed by the Biochemistry de | epartment at GWH. |  |  |

| Laboratory information                            |  |  |  |  |
|---|--|--|--|--|
| Tests   | Other Antibiotic Level tests are processed at an external reference centre. Contact the laboratory on Telephone 01793 604798 if further details are required. The parameters analysed in this test and any reference ranges for these parameters will be displayed on the report when it is returned to the requestor. |  |  |  |
| Measurement units                                 |  |  |  |  |
| Biological reference units                        |  |  |  |  |
| Turnaround time                                   | 48 hours.  |  |  |  |
| Availability                                      | Routine hours.   |  |  |  |
| Clinical information                              |  |  |  |  |
| Factors known to significantly affect the results | Haemolysis.  |  |  |  |

# **Back to index**

Authorised by: T Carey/C Frearson DCN: MIC-P-006-13.2 Date of issue: 12/12/2025

Page 33 of 187



# **Anti-streptolysin (ASO) titres**

Used to determine past or current infection.

| Examinations offered                           |   |  |              |  |  |
|--|---|--|--------------|--|--|
| Collection container                           | Specimen  | Sample volume  | Request form |  |  |
|  | Venous blood  | 2 – 6 mls  |              |  |  |
| Sample instructions                            |   |  |              |  |  |
| Collection                                     | No special require  | No special requirements.   |              |  |  |
| Specimen transport                             | Specimens should be sent to the laboratory without delay during normal working hours. |  |              |  |  |
| Storage requirements                           | Outside of normal working hours samples should be refrigerated.                       |  |              |  |  |
| Special requirements                           | Clinical details and  | Clinical details and date of onset are essential for processing.   |              |  |  |
| Laboratory information                         |   |  |              |  |  |
| Tests  | laboratory on Tele<br>parameters analys   | This test is processed at an external reference centre. Contact the laboratory on Telephone 01793 604798 if further details are required. The parameters analysed in this test and any reference ranges for these parameters will be displayed on the report when it is returned to the requestor. |              |  |  |
| Measurement units                              |   |  |              |  |  |
| Biological reference units                     |   |  |              |  |  |
| Turnaround time                                | 14 days.  | 14 days.   |              |  |  |
| Availability                                   | Routine hours.  | Routine hours.   |              |  |  |
| Clinical information                           |   |  |              |  |  |
| Factors known to significan affect the results | tly<br>Haemolysis.  |  |              |  |  |

# **Back to index**

Authorised by: T Carey/C Frearson

Date of issue: 12/12/2025

DCN: MIC-P-006-13.2 Page 34 of 187



# **Aspergillus PCR**

Diagnosis of acute disease.

| Examinations offered                              |   |  |  |  |
|---|---|--|--|--|
| Collection container                              | Specimen  | Sample volume  | Request form   |  |
|   | EDTA blood  | Minimum volume 5ml   | *** The state of t |  |
|   | Sputum/BAL  | Minimum volume 1ml   |  |  |
|   | CSF   | Minimum volume 0.5ml   |  |  |
| Sample instructions                               |   |  |  |  |
| Collection  | Sputum specimens/ bronchoalveolar lavage/bronchial washings Refer to Respiratory samples for culture.  Cerebrospinal fluid (CSF) Refer to CSF microscopy and culture. |  |  |  |
| Specimen transport                                | Specimens should be sent to the laboratory without delay during normal working hours.   |  |  |  |
| Storage requirements                              | Outside of no   | Outside of normal working hours samples should be refrigerated.  |  |  |
| Special requirements                              | Clinical details are essential for processing.  |  |  |  |
| Laboratory information                            |   |  |  |  |
| Tests   | laboratory on parameters a  | This test is processed at an external reference centre. Contact the laboratory on Telephone 01793 604798 if further details are required. The parameters analysed in this test and any reference ranges for these parameters will be displayed on the report when it is returned to the requestor.   |  |  |
| Measurement units                                 |   |  |  |  |
| Biological reference units                        |   |  |  |  |
| Turnaround time                                   | 14 days.  |  |  |  |
| Availability                                      | Routine hour  | Routine hours.   |  |  |
| Clinical information                              |   |  |  |  |
| Factors known to signification affect the results | inappropriate<br>antly of organism b<br>detection of a  | False negatives may occur for a variety of reasons, for example inappropriate timing of sample collection, inappropriate sample, presence of organism below the detectable limit of the assay. Towards the limit of detection of an assay sampling variation will result in lower reproducibility. New and emerging variants may also occur which may not be detected by this assay. |  |  |

**Back to index** 

Authorised by: T Carey/C Frearson DCN: MIC-P-006-13.2
Date of issue: 12/12/2025 Page 35 of 187



# **Aspergillus serology**

Used to determine past or current infection.

| Examinations offered                           |                                   |  |              |  |  |
|--|-----------------------------------|--|--------------|--|--|
| Collection container                           | Specimen                          | Sample volume  | Request form |  |  |
|  | Venous blood                      | 2 – 6 mls  |              |  |  |
| Sample instructions                            |                                   |  |              |  |  |
| Collection                                     | No special requ                   | No special requirements.   |              |  |  |
| Specimen transport                             | Specimens show working hours.     | Specimens should be sent to the laboratory without delay during normal working hours.  |              |  |  |
| Storage requirements                           | Outside of norn                   | Outside of normal working hours samples should be refrigerated.  |              |  |  |
| Special requirements                           | Clinical details a                | Clinical details are essential for processing.   |              |  |  |
| Laboratory information                         |                                   |  |              |  |  |
| Tests  | laboratory on T<br>The parameters | This test is processed at an external reference centre. Contact the laboratory on Telephone 01793 604798 if further details are required. The parameters analysed in this test and any reference ranges for these parameters will be displayed on the report when it is returned to the requestor. |              |  |  |
| Measurement units                              |                                   |  |              |  |  |
| Biological reference units                     |                                   |  |              |  |  |
| Turnaround time                                | 14 days.                          | 14 days.   |              |  |  |
| Availability                                   | Routine hours.                    | Routine hours.   |              |  |  |
| Clinical information                           |                                   |  |              |  |  |
| Factors known to significar affect the results | h <b>tly</b> Haemolysis.          | Haemolysis.  |              |  |  |

# **Back to index**

Authorised by: T Carey/C Frearson

Date of issue: 12/12/2025

DCN: MIC-P-006-13.2 Page 36 of 187



#### Bartonella

The Bartonella spp. PCR is a pan-species assay and will detect *Bartonella henselae* and *Bartonella quintana*. *Bartonella henselae* serology is provided through an IgM and IgG chemiluminescent immunoassay (CLIA). Please note that while cross reactivity may occur with other Bartonella species, the serological assay is for the diagnosis of B. henselae only and a negative result does not exclude other Bartonella spp. infections.

| Examinations offered                          |   |  |  |
|---|---|--|--|
| Collection container                          | Specimen  | Sample volume  | Request form   |
|   | Venous blood  | 2 – 6 mls  |  |
|   | EDTA blood  | Minimum volume 5ml   |  |
| Sample instructions                           |   |  |  |
| Collection                                    | No special re   | equirements.   |  |
| Specimen transport                            | ·   | Specimens should be sent to the laboratory without delay during norma working hours. |  |
| Storage requirements                          | Outside of normal working hours samples should be refrigerated.   |  |  |
| Special requirements                          | Please provide full clinical details to ensure that the appropriate testing is done. If forms do not contain sufficient information, there may be a delay in testing or the sample may be rejected.   |  |  |
| Laboratory information                        |   |  |  |
| Tests   | This test is processed at an external reference centre. Contact the laboratory on Telephone 01793 604798 if further details are required. The parameters analysed in this test and any reference ranges for thes parameters will be displayed on the report when it is returned to the requestor. |  | orther details are required.<br>y reference ranges for these |
| Measurement units                             |   |  |  |
| Biological reference units                    |   |  |  |
| Turnaround time                               | 10 days.  |  |  |
| Availability                                  | Routine hou   | rs.  |  |
| Clinical information                          |   |  |  |
| Factors known to significa affect the results | ntly  |  |  |

#### **Back to index**

Authorised by: T Carey/C Frearson DCN: MIC-P-006-13.2
Date of issue: 12/12/2025 Page 37 of 187



#### **Beta-Glucan test**

| Examinations offered                           |  |  |  |  |
|--|--|--|--|--|
| Collection container                           | Specimen   | Sample volume  | Request form   |  |
|  | Venous blood   | 2 – 6 mls  |  |  |
| Sample instructions                            |  |  |  |  |
| Collection                                     |  |  | i.e. if Beta Glucan is requested op will be needed just for this |  |
| Specimen transport                             | Specimens shou working hours.                        | Specimens should be sent to the laboratory without delay during normal working hours.  |  |  |
| Storage requirements                           | Outside of norm                                      | Outside of normal working hours samples should be refrigerated.  |  |  |
| Special requirements                           | Clinical details a                                   | Clinical details are essential for processing.   |  |  |
| Laboratory information                         |  |  |  |  |
| Tests  | laboratory on To<br>The parameters                   | This test is processed at an external reference centre. Contact the laboratory on Telephone 01793 604798 if further details are required. The parameters analysed in this test and any reference ranges for these parameters will be displayed on the report when it is returned to the requestor. |  |  |
| Measurement units                              | pg/mL  |  |  |  |
| Biological reference units                     |  |  |  |  |
| Turnaround time                                | 48-96 hours  |  |  |  |
| Availability                                   | Routine hours.                                       |  |  |  |
| Clinical information                           |  |  |  |  |
| Factors known to significar affect the results | Haemolysed sar<br>Lipemic samples<br>Icteric samples |  |  |  |

#### **Back to index**

Authorised by: T Carey/C Frearson

Date of issue: 12/12/2025

DCN: MIC-P-006-13.2 Page 38 of 187



#### **BK virus PCR**

Diagnosis of acute disease.

| Examinations offered                          |   |  |  |  |
|---|---|--|--|--|
| Collection container                          | Specimen  | Sample volume  | Request form   |  |
|   | EDTA blood  | Minimum volume 5ml   |  |  |
|   | Urine   | Minimum volume 5ml   |  |  |
| Sample instructions                           |   |  |  |  |
| Collection                                    | <b>Urine</b><br>Refer to <u>Urir</u>              | ne (microscopy and culture).   |  |  |
| Specimen transport                            | Specimens s<br>working hou                        | hould be sent to the laboratory witers.  | thout delay during normal  |  |
| Storage requirements                          | Outside of n                                      | Outside of normal working hours samples should be refrigerated.  |  |  |
| Special requirements                          | Clinical deta                                     | Clinical details are essential for processing.   |  |  |
| Laboratory information                        |   |  |  |  |
| Tests   | laboratory o<br>parameters                        | rocessed at an external reference on Telephone 01793 604798 if furthe analysed in this test and any refere will be displayed on the report who   | er details are required. The ence ranges for these   |  |
| Measurement units                             |   |  |  |  |
| Biological reference units                    |   |  |  |  |
| Turnaround time                               | 14 days.  |  |  |  |
| Availability                                  | Routine hou                                       | rs.  |  |  |
| Clinical information                          |   |  |  |  |
| Factors known to significa affect the results | inappropriat<br>intly of organism<br>detection of | ves may occur for a variety of reason<br>te timing of sample collection, inapulation<br>below the detectable limit of the a<br>fan assay sampling variation will re<br>the berging variants may also occur who | propriate sample, presence<br>ssay. Towards the limit of<br>sult in lower reproducibility. |  |

**Back to index** 

Authorised by: T Carey/C Frearson DCN: MIC-P-006-13.2
Date of issue: 12/12/2025 Page 39 of 187



#### **Blood cultures**

Bacteria are not normally found in the blood - any growth is usually significant however contamination from normal skin flora can easily take place. A strict aseptic technique is essential.

Blood cultures are not a 'routine' investigation. Take only when active clinical infection is suspected and where possible before antibiotics have been given. Take during or as soon as possible after a spike of temperature. Do not remove or cover up barcode labels as these are required in the laboratory.

The following list serves as a guide for when blood cultures should be considered:

- Fever ≥ 38°C (suspected bacterial or fungal cause)
- Pyrexia of unknown origin (PUO)
- Rigors
- Febrile convulsion (paediatrics)
- Sepsis, septicaemia or septic shock
- Febrile neutropenia
- Pneumonia
- Meningitis
- Meningococcaemia/petechial, purpuric or non-blanching rash
- Enteric fever (typhoid)
- Infective endocarditis or other endovascular infection
- **Pyelonephritis**
- **Pancreatitis**
- Septic arthritis
- Intravascular catheter/cannula infection
- Enteric fever (e.g. typhoid)

| Examinations offered   |                           |                             |  |
|--|---------------------------|-----------------------------|--|
| Collection container   | Specimen                  | Sample volume               | Request form   |
| Children – yellow top  |                           |                             |  |
| bottle.  |                           |                             |  |
|  |                           | Children –                  |  |
|  |                           | Recommended volume is       |  |
|  |                           | 1–3 mL.                     |  |
|  | Venous blood, arterial    |                             |  |
| GID BACTEC Peda Paran  | blood, blood via IV line. |                             |  |
| The first product and sections   | Ascetic fluid, pleural    |                             | The state of the s |
| Adults – grey top and  | fluid.                    |                             |  |
| purple top bottle.   |                           | Adults – Recommended        | - Marie and Appendix   |
|  |                           |                             |  |
|  |                           | specimen volume is 8–10 mL. |  |
|  |                           | IIIL.                       |  |
|  |                           |                             |  |
| 1 D BACILE   |                           |                             |  |
| Pla Arriot Constitution of the Constitution of |                           |                             |  |

Authorised by: T Carey/C Frearson DCN: MIC-P-006-13.2 Date of issue: 12/12/2025

Page 40 of 187



| Sample instructions                               |  |
|---|--|
| Collection  | A blood culture set is defined as one aerobic and one anaerobic bottle. For infants and neonates a single aerobic bottle may be requested. For patients with suspected endocarditis collect 2 sets from separate venepunctures at different times.  Refer to Blood Culture Method Options.   |
| Specimen transport                                | Specimens should be sent to the laboratory without delay during normal working hours.  Do not use pneumatic chute system.  |
| Storage requirements                              | Inoculated bottles should be incubated as soon as possible. Outside of normal working hours samples must be stored at ambient temperature in Pathology Reception.  DO NOT refrigerate blood cultures.  |
| Special requirements                              | Collect specimens before antimicrobial therapy where possible. Samples should be taken as soon as possible after a spike of fever.   |
| Laboratory information                            |  |
| Tests   | Detection of gram positive and negative bacteria (semi-quantitative). General isolation and characterisation of aerobic, microaerophilic and anaerobic micro-organisms (qualitative).  |
| Measurement units                                 | Growth detected or not detected.   |
| Biological reference units                        |  |
| Turnaround time                                   | 1-5 days, depending on positivity. Significant positive results are communicated to clinicians as and when they arise.   |
| Availability                                      | Routine hours.   |
| Clinical information                              |  |
| Factors known to significantly affect the results | Any recent antimicrobial therapy can have a significant effect on blood culture results by decreasing the sensitivity of the test. This may be of particular importance in those patients receiving prophylactic antibiotics and who are at high risk of bloodstream infections. If patients have received previous antimicrobial treatment, bacteraemia should be considered even if blood culture results are negative.  There is a direct relationship between blood volume and yield, with approximately a 3% increase in yield per ml of blood cultured. False negatives may occur if inadequate blood culture volumes are submitted. |

#### **Back to index**

Authorised by: T Carey/C Frearson

Date of issue: 12/12/2025

DCN: MIC-P-006-13.2 Page 41 of 187

#### **Blood culture collection**

#### 1. BD BACTEC™ bottle and skin preparation



Mark bottle label corresponding to the recommended fill level indicated on the bottle label.



Remove plastic flip-off cap from the bottle. Disinfect the rubber septum with a 70% isopropyl alcohol swab and allow to dry.



Disinfect the venepuncture site with 70% isopropyl alcohol and allow to dry (> 60 seconds).

# 2a. Collecting blood sample using BD Vacutainer® Push Button Blood Collection Set





Hold the wings together using your thumb and index finger. Access the vein using standard needle insertion technique.



If your institution prefers, hold the body of the blood collection set instead of the wings during insertion.



Correct venous access is indicated by a "flash" that appears directly behind and below the push button. ii)



When collecting blood using a wingset, it is recommended that you use a discard tube to prime the wingset tubing first. Then collect blood into blood culture bottles. Push and hold the BD Vacutainer\* holder over the top of the bottle. Fill aerobic bottle first, then anaerobic bottle, holding them upright. Collect blood to indicated fill level.

iii)



If required, BD Vacutainer\* blood collection tubes may be drawn at this time by inserting them into the BD Vacutainer\* holder.

iv)



For maximum safety, the device is designed to be activated while still in the patient's vein. Place a gauze pad on the venepuncture site. Allow it to cover the front barrel. After collection, grasp the body of the device with thumb and middle finger, and activate the push button using your index finger. Do not impede device retraction.

v)



Apply pressure to the venepuncture site in accordance with your institution's protocol.

vi)



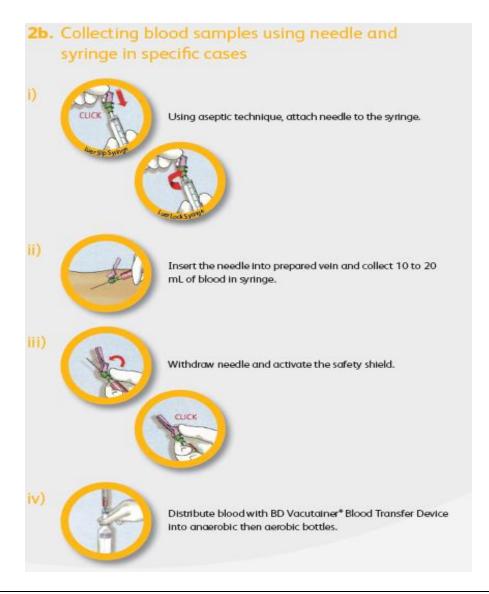
Make sure that the needle is fully retracted and is in the shielded position.

Authorised by: T Carey/C Frearson

Date of issue: 12/12/2025

DCN: MIC-P-006-13.2

Page 42 of 187



Authorised by: T Carey/C Frearson DCN: MIC-P-006-13.2 Date of issue: 12/12/2025 Page 43 of 187

#### 5. Additional Cultures



It is generally recommended to collect 2-3 blood culture sets for children (> 36 kg body weight) and adult patients. Additional cultures may be collected in a similar way. Ideally, a different venepuncture site should be used for each culture set collected. The clinical status of the patient should be the primary guide to the timing of blood cultures.'

Repeat steps 1-4 for additional cultures.

For BD Customer Service, please call 01865 781666, Option 1

# Reminder - order of draw When collecting blood samples using BD Vacutainer® Push Button or BD Safety-Lok™ Blood Collection sets: First collect blood into the BD BACTEC™ aerobic bottle, then the anaerobic bottle Anaerobic Aerobic When collecting blood samples using needle and syringe: First collect blood into the BD BACTEC™ anaerobic bottle, then the aerobic bottle Anaerobic Aerobic

**Back to index** 

Authorised by: T Carey/C Frearson

Date of issue: 12/12/2025

DCN: MIC-P-006-13.2

Page 44 of 187



#### **Bordetella pertussis**

Suspect pertussis in patients with a cough illness lasting 14 days or more without an apparent cause plus one of the following: (a) paroxysms of coughing; (b) inspiratory 'whoop'; (c) post-tussive vomiting.

Recommended tests for pertussis testing vary according to the length of time since cough onset:

Less than 2 weeks from cough onset: PCR and culture

Between 2 and 3 weeks from cough onset: PCR and culture and either oral fluid kit (if aged 2 to <17)

More than 3 weeks from cough onset: Either oral fluid kit (if aged 2 - <17 yrs) or serology

#### Requesting an oral fluid kit:

**Examinations offered** 

For cases aged 2 years to less than 17 years, notify the case to your local HPT and they will post an oral fluid kit (OFK) directly to the case. Note that oral fluid testing is not recommended if the case has been immunised against pertussis in the previous year as a positive result cannot be interpreted.

| Collection container                           | Specimen                          | Sample volume  | Request form                             |
|--|-----------------------------------|--|--|
| - IN 6 5                                       | Pernasal swab (culture)           |  |  |
|  | Green viral swab (PCR)            |  |  |
|  | Venous blood (serology)           |  |  |
| Sample instructions                            |                                   |  |  |
| Collection                                     | the nose until it read            | nserted through a nostril and<br>thes the nasopharynx.<br>before antimicrobial therapy | d advanced along the floor of y started. |
| Specimen transport                             | Specimens should b working hours. | e sent to the laboratory with  | nout delay during normal                 |
| Storage requirements                           |                                   | vorking hours samples should<br>ours are undesirable.                                  | d be refrigerated.                       |
| Special requirements                           | No special requirem               | ents.  |  |
| Laboratory information                         |                                   |  |  |
| Tests  | General isolation an              | d characterisation of Bordet   | ella species.                            |
| Measurement units                              |                                   |  |  |
| Biological reference units                     |                                   |  |  |
| Turnaround time                                | 7- 14 days.                       |  |  |
| Availability                                   | Routine hours.                    |  |  |
| Clinical information                           |                                   |  |  |
| Factors known to significar affect the results | Delays in transporta              | tion may affect the recovery   | of pathogens.                            |

Authorised by: T Carey/C Frearson DCN: MIC-P-006-13.2 Date of issue: 12/12/2025 Page 45 of 187



# Borrelia burgdorferi (Lyme) antibody

Used to determine past or current infection.

| Examinations offered                           |                                    |   |                         |  |
|--|------------------------------------|---|-------------------------|--|
| Collection container                           | Specimen                           | Sample volume   | Request form            |  |
|  | Venous blood                       | 2 – 6 mls   |                         |  |
| Sample instructions                            |                                    |   |                         |  |
| Collection                                     | No special requiren                | nents.  |                         |  |
| Specimen transport                             | Specimens should be working hours. | Specimens should be sent to the laboratory without delay during normal working hours.         |                         |  |
| Storage requirements                           | Outside of normal                  | Outside of normal working hours samples should be refrigerated.                               |                         |  |
| Special requirements                           | Clinical details, date processing. | Clinical details, date of onset and bite/travel history are essential for processing.         |                         |  |
| Laboratory information                         |                                    |   |                         |  |
| Tests  | Detection of Lymes                 | IgM antibody (qualitative).<br>IgG antibody (qualitative).<br>ive results will be referred fo | or Borrelia burgdorferi |  |
| Measurement units                              |                                    |   |                         |  |
| Biological reference units                     |                                    |   |                         |  |
| Turnaround time                                | 7 days.                            |   |                         |  |
| Availability                                   | Routine hours.                     |   |                         |  |
| Clinical information                           |                                    |   |                         |  |
| Factors known to significan affect the results | tly Haemolysis.                    |   |                         |  |

#### **Back to index**

Authorised by: T Carey/C Frearson DCN: MIC-P-006-13.2 Date of issue: 12/12/2025 Page 46 of 187



# **Brucella serology**

Used to determine past or current infection. PCR may be carried out at reference laboratory's discretion.

| Examinations offered                           |                                    |  |  |  |
|--|------------------------------------|--|--|--|
| Collection container                           | Specimen                           | Sample volume  | Request form   |  |
|  | Venous blood                       | 2 – 6 mls  | ### Company of the Co |  |
| Sample instructions                            |                                    |  |  |  |
| Collection                                     | No special requi                   | irements.  |  |  |
| Specimen transport                             | Specimens shou working hours.      | Specimens should be sent to the laboratory without delay during normal working hours.  |  |  |
| Storage requirements                           | Outside of norm                    | Outside of normal working hours samples should be refrigerated.  |  |  |
| Special requirements                           |                                    | Clinical details and any history of travel or occupational exposure are essential for processing.  |  |  |
| Laboratory information                         |                                    |  |  |  |
| Tests  | laboratory on To<br>parameters ana | This test is processed at an external reference centre. Contact the laboratory on Telephone 01793 604798 if further details are required. The parameters analysed in this test and any reference ranges for these parameters will be displayed on the report when it is returned to the requestor. |  |  |
| Measurement units                              |                                    |  |  |  |
| Biological reference units                     |                                    |  |  |  |
| Turnaround time                                | 14 days.                           |  |  |  |
| Availability                                   | Routine hours.                     |  |  |  |
| Clinical information                           |                                    |  |  |  |
| Factors known to significan affect the results | tly<br>Haemolysis.                 |  |  |  |

#### **Back to index**

Authorised by: T Carey/C Frearson DCN: MIC-P-006-13.2
Date of issue: 12/12/2025 Page 47 of 187



# Carbapenemase-producing Enterobacteriaceae (CPE) screen

In response to the increasing numbers of CPE producing clinical isolates of Enterobacteriaceae the Infection Control Team and Microbiology department have produced a protocol for CPE screening and detection. The isolation of a clinical CPE isolate prompts the Infection Control Team to screen all possible patient contacts to reduce the transmission of resistance enzymes within the Trust.

| Examinations offered                            |  |   |                           |  |
|---|--|---|---------------------------|--|
| Collection container                            | Specimen   | Sample volume   | Request form              |  |
| 93D contribut Mar   9 3                         | Rectal swab (Amies transport swab)   |   |                           |  |
| 41 11 11 11 11                                  | Stool sample   | <20ml   |                           |  |
| Sample instructions                             |  |   |                           |  |
| Collection                                      | Faeces specimen i<br>similar container a   | d before antimicrobial thera<br>may be passed into a clean,<br>and transferred to an appro<br>t have evidence of stool on | dry, disposable bedpan or |  |
| Specimen transport                              | Specimens should working hours.  |   |                           |  |
| Storage requirements                            | Outside of normal working hours samples should be refrigerated. Delays of over 48 hours are undesirable. |   |                           |  |
| Special requirements                            | Rectal swabs with  | no visible faecal material p  | resent will be rejected.  |  |
| Laboratory information                          |  |   |                           |  |
| Tests   | General isolation a<br>Enterobacteriacea   | and characterisation of carb<br>ne (qualitative).   | papenemase producing      |  |
| Measurement units                               | Growth detected  | or not detected.  |                           |  |
| Biological reference units                      |  |   |                           |  |
| Turnaround time                                 | Negative screen 2<br>Positive result 4 d   |   |                           |  |
| Availability                                    | Routine hours.   | ,   |                           |  |
| Clinical information                            |  |   |                           |  |
| Factors known to significate affect the results | ntly   |   |                           |  |

#### **Back to index**

Authorised by: T Carey/C Frearson DCN: MIC-P-006-13.2
Date of issue: 12/12/2025 Page 48 of 187



# Chikungunya, Murray, Ross River, O.Tsusu, Sandfly

Used to determine past or current infection.

| Examinations offered                           |   |  |              |  |
|--|---|--|--------------|--|
| Collection container                           | Specimen                                  | Sample volume  | Request form |  |
|  | Venous blood                              | 2 – 6 mls  |              |  |
| Sample instructions                            |   |  |              |  |
| Collection                                     | No special requiren                       | nents.   |              |  |
| Specimen transport                             | Specimens should be working hours.        | Specimens should be sent to the laboratory without delay during normal working hours.  |              |  |
| Storage requirements                           | Outside of normal                         | Outside of normal working hours samples should be refrigerated.  |              |  |
| Special requirements                           | Clinical details, date                    | Clinical details, date of onset and travel history are essential for processing.   |              |  |
| Laboratory information                         |   |  |              |  |
| Tests  | laboratory on Teler<br>parameters analyse | This test is processed at an external reference centre. Contact the laboratory on Telephone 01793 604798 if further details are required. The parameters analysed in this test and any reference ranges for these parameters will be displayed on the report when it is returned to the requestor. |              |  |
| Measurement units                              |   |  |              |  |
| Biological reference units                     |   |  |              |  |
| Turnaround time                                | 14 days.                                  |  |              |  |
| Availability                                   | Routine hours.                            |  |              |  |
| Clinical information                           |   |  |              |  |
| Factors known to significan affect the results | tly<br>Haemolysis.                        |  |              |  |

#### **Back to index**

Authorised by: T Carey/C Frearson

Date of issue: 12/12/2025

DCN: MIC-P-006-13.2 Page 49 of 187



# Chlamydia trachomatis antibody

Used to determine past infection during investigations for infertility in women.

| Examinations offered                           |  |  |              |  |
|--|--|--|--------------|--|
| Collection container                           | Specimen                               | Sample volume  | Request form |  |
|  | Venous blood                           | 2 – 6 mls  |              |  |
| Sample instructions                            |  |  |              |  |
| Collection                                     | No special require                     | ements.  |              |  |
| Specimen transport                             | Specimens should working hours.        | Specimens should be sent to the laboratory without delay during normal working hours.  |              |  |
| Storage requirements                           | Outside of norma                       | Outside of normal working hours samples should be refrigerated.  |              |  |
| Special requirements                           | Testing can only b                     | Testing can only be carried out on female patients.  |              |  |
| Laboratory information                         |  |  |              |  |
| Tests  | laboratory on Tel-<br>parameters analy | This test is processed at an external reference centre. Contact the laboratory on Telephone 01793 604798 if further details are required. The parameters analysed in this test and any reference ranges for these parameters will be displayed on the report when it is returned to the requestor. |              |  |
| Measurement units                              |  |  |              |  |
| Biological reference units                     |  |  |              |  |
| Turnaround time                                | 14 days.                               |  |              |  |
| Availability                                   | Routine hours.                         |  |              |  |
| Clinical information                           |  |  |              |  |
| Factors known to significan affect the results | tly<br>Haemolysis.                     |  |              |  |

#### **Back to index**

Authorised by: T Carey/C Frearson DCN: MIC-P-006-13.2
Date of issue: 12/12/2025 Page 50 of 187

#### Chlamydia trachomatis PCR

| Specimen   | Sample volume  | Paguast form   |
|--|--|--|
|  | •  | Request form   |
| Eye, cervical, urethral,<br>throat, rectal swab<br>(Chlamydia transport<br>medium) |  |  |
| Urine (first void)<br>(Chlamydia transport<br>medium)                              | Minimum volume 2ml   |  |
| Urine (first void)   | Minimum volume 2ml   |  |
|  | (Chlamydia transport<br>medium)<br>Urine (first void)<br>(Chlamydia transport<br>medium) | (Chlamydia transport medium)  Urine (first void) (Chlamydia transport Minimum volume 2ml medium) |

Specimens should be collected and handled following the recommended guidelines on the collection packs.

Refer to <u>Chlamydia PCR – collection of vaginal sample</u> and <u>Chlamydia PCR – collection of urine sample</u>.

Urine specimens submitted from non-Sexual Health Clinic locations can be submitted in white topped universal containers for transfer into Chlamydia transport medium in the laboratory.

#### Endocervical or self-taken vaginal swab

An endocervical swab is the specimen of choice for diagnosing Chlamydia trachomatis as it has a higher sensitivity than a urine sample or a self-taken vaginal swab. White cells and blood can produce either an invalid or false negative result and thus excess mucus/pus should be removed from the endocervix with the accompanying swab prior to taking the sample. NB. Only one swab is required for a self-taken vaginal swab; the cleaning swab must not be used and should be discarded.

#### Men

The patient should not have urinated for at least one hour. Collect approximately 10-20 mls of first voided urine into a sterile white capped universal container.

#### Eye swabs

Do not use fluorescein as this can interfere with the test. Apply a local anaesthetic. Remove excess exudate using one of the swabs from a female PCR sample kit; discard the cleaning swab. Using the remaining swab, firmly swab the inner surface of upper and lower eyelids to collect epithelial cells. Do NOT pre-moisten the swab in the transport medium. Place swab in sample tube, snap off at the score line and replace cap.

Collection

Authorised by: T Carey/C Frearson

Date of issue: 12/12/2025

DCN: MIC-P-006-13.2 Page 51 of 187



| Specimen transport                                | Specimens should be sent to the laboratory without delay during normal working hours.  |  |  |
|---|--|--|--|
| Storage requirements                              | Outside of normal working hours samples should be refrigerated.  |  |  |
| Special requirements                              | Urine – patient should not have urinated for 2 hours prior to sample collection.   |  |  |
| Laboratory information                            |  |  |  |
| Tests   | Detection of Chlamydia trachomatis nucleic acid (qualitative).   |  |  |
| Measurement units                                 | Presence detected or not detected.   |  |  |
| Biological reference units                        |  |  |  |
| Turnaround time                                   | 4 days.  |  |  |
| Availability                                      | Routine hours.   |  |  |
| Clinical information                              |  |  |  |
| Factors known to significantly affect the results | False negatives may occur for a variety of reasons, for example inappropriate timing of sample collection, inappropriate sample, presence of organism below the detectable limit of the assay. White cells and blood can produce either an invalid or false negative result.  Towards the limit of detection of an assay sampling variation will result in lower reproducibility.  New and emerging variants may also occur which may not be detected by this assay. |  |  |

**Back to index** 

Authorised by: T Carey/C Frearson DCN: MIC-P-006-13.2
Date of issue: 12/12/2025 Page 52 of 187



# Chlamydia trachomatis PCR - collection of urine sample

# Aptima® urine collection kit Collection procedure guide

#### Collection for male and female urine specimens

Patient should not have urinated for at least 1 hour prior to specimen collection.



Direct patient to provide **first-catch** urine (approximately 20 to 30 mL of initial urine stream) into urine collection cup free of any preservatives. Collection of larger volumes of urine may result in specimen dilution that may reduce test sensitivity. Female patients should not cleanse labial area prior to providing specimen.

#### Urine specimen collection guide for:

- Chlamydia trachomatis (CT)
- Neisseria gonorrhoeae (GC)
- Trichomonas vaginalis (TV) for female only



Remove cap from urine specimen transport tube and transfer 2 mL of urine into urine specimen transport tube using the disposable pipette provided. The correct volume of urine has been added when the fluid level is between the black fill lines on urine specimen transport tube label.



Re-cap urine specimen transport tube tightly.

This is now known as the "processed urine specimen,"

#### **Back to index**

Authorised by: T Carey/C Frearson DCN: MIC-P-006-13.2
Date of issue: 12/12/2025 Page 53 of 187



#### Chlamydia trachomatis PCR – collection of vaginal sample



#### **Back to index**

Authorised by: T Carey/C Frearson DCN: MIC-P-006-13.2 Date of issue: 12/12/2025 Page 54 of 187



# **Chlamydia LGV PCR**

Chlamydia LGV PCR would only be performed on a Chlamydia positive rectal sample.

To diagnose LGV, different samples from those listed may be indicated; please discuss with Consultant Medical Microbiologist.

| Examinations offered                          |  |   |   |  |
|---|--|---|---|--|
| Collection container                          | Specimen   | Sample volume   | Request form  |  |
| Security APON<br>Specific International Con-  | Rectal swab (Chlamydi<br>transport medium)                       | a   |   |  |
| Sample instructions                           |  |   |   |  |
| Collection                                    |  | uld be collected and handled<br>he collection packs.  | l following the recommended   |  |
| Specimen transport                            | Specimens sho working hours.                                     | uld be sent to the laboratory   | without delay during normal   |  |
| Storage requirements                          | Outside of norr  | mal working hours samples s   | hould be refrigerated.  |  |
|   | LGV PCR will or<br>C. trachomatis.                               | •   | which have tested positive for  |  |
| Special requirements                          |  | Currently only samples from patients' assigned male at birth and whose gender identity is male and ALL trans patients will be applicable for LGV PCR. |   |  |
| Laboratory information                        |  |   |   |  |
| Tests   | laboratory on T<br>parameters and                                | cessed at an external referen<br>Telephone 01793 604798 if full<br>alysed in this test and any ref<br>I be displayed on the report                    | urther details are required. The ference ranges for these   |  |
| Measurement units                             |  |   |   |  |
| Biological reference units                    |  |   |   |  |
| Turnaround time                               | 14 days.   |   |   |  |
| Availability                                  | Routine hours.   |   |   |  |
| Clinical information                          |  |   |   |  |
| Factors known to significa affect the results | inappropriate t<br><b>ntly</b> of organism be<br>detection of an | low the detectable limit of the assay sampling variation wil  | easons, for example<br>nappropriate sample, presence<br>ne assay. Towards the limit of<br>Il result in lower reproducibility.<br>which may not be detected by |  |

#### **Back to index**

DCN: MIC-P-006-13.2 Authorised by: T Carey/C Frearson Date of issue: 12/12/2025

THIS DOCUMENT IS UNCONTROLLED WHEN PRINTED

Page 55 of 187



#### **Clostridium difficile toxin**

*C. difficile* is a Gram positive, spore forming, strictly anaerobic rod, so named because of the difficulty in original culture and characterisation. Toxigenic strains produce large protein toxins A and B, both being major virulence factors. Most disease associated with *C. difficile* is intestinal though *C. difficile* may be isolated from blood or tissues.

| Examinations offered                           |   |  |                             |
|--|---|--|-----------------------------|
| Collection container                           | Specimen  | Sample volume  | Request form                |
| N H H 4  | Stool sample  | <20ml  |                             |
| Sample instructions                            |   |  |                             |
| Collection                                     | •   | be passed into a clean, dry, di<br>transferred to an appropriate | ·                           |
| Specimen transport                             | Specimens sho<br>working hours  | ould be sent to the laboratory v                                 | without delay during normal |
| Storage requirements                           |   | mal working hours samples sh 48 hours are undesirable.           | ould be refrigerated.       |
| Special requirements                           | Formed stools are unsuitable for investigation for C.difficile.  Clostridium difficile toxin test performed on in-patient samples, patients over 65yrs or if history of antibiotic-associated diarrhoea.  Children less than 2 years old are unsuitable for investigation for C.difficile.  Investigation not performed if a positive result within previous 28 days. |  |                             |
| Laboratory information                         |   |  |                             |
| Tests  | Glutamate dehydrogenase (GDH) detection (qualitative), Clostridium difficile toxin A and B detection (qualitative) and PCR ribotyping of Clostridium difficile (qualitative).   |  |                             |
| Measurement units                              | Toxin detected or not detected.   |  |                             |
| Biological reference units                     |   |  |                             |
| Turnaround time                                | 1 day.  |  |                             |
| Availability                                   | Routine hours.  |  |                             |
| Clinical information                           |   |  |                             |
| Factors known to significan affect the results | tly   |  |                             |

#### **Back to index**

Authorised by: T Carey/C Frearson DCN: MIC-P-006-13.2
Date of issue: 12/12/2025 Page 56 of 187



# Clostridium difficile toxin ribotyping

| Examinations offered                            |  |  |   |
|---|--|--|---|
| Collection container                            | Specimen   | Sample volume  | Request form  |
| at H H H  | Stool sample   | <20ml  |   |
| Sample instructions                             |  |  |   |
| Collection                                      |  | y be passed into a clean, dry,<br>transferred to an appropriat | disposable bedpan or similar ce collection container. |
| Specimen transport                              | Specimens shours working hours   |  | y without delay during normal                         |
| Storage requirements                            |  | rmal working hours samples of 48 hours are undesirable.        | should be refrigerated.                               |
| Special requirements                            | Investigation  | performed at request of Infe                                   | ction Control.  |
| Laboratory information                          |  |  |   |
| Tests   | This test is processed at an external reference centre. Contact the laboratory on Telephone 01793 604798 if further details are required. The parameters analysed in this test and any reference ranges for these parameters will be displayed on the report when it is returned to the requestor. |  |   |
| Measurement units                               |  |  |   |
| Biological reference units                      |  |  |   |
| Turnaround time                                 | 14 days.   |  |   |
| Availability                                    | Routine hours  | S.   |   |
| Clinical information                            |  |  |   |
| Factors known to significant affect the results | tly  |  |   |

**Back to index** 

Authorised by: T Carey/C Frearson DCN: MIC-P-006-13.2 Date of issue: 12/12/2025 Page 57 of 187



# **Contact lens**

| Examinations offered                            |  |   |                         |
|---|--|---|-------------------------|
| Collection container                            | Specimen   | Sample volume                                       | Request form            |
|   | Contact lens case or sterile container with saline |   |                         |
| Sample instructions                             |  |   |                         |
| Collection                                      | No special requireme                               | ents.   |                         |
| Specimen transport                              | Specimens should be working hours.                 | sent to the laboratory witho                        | out delay during normal |
| Storage requirements                            | Outside of normal wo<br>Delays of over 48 hou      | orking hours samples should<br>urs are undesirable. | be refrigerated.        |
| Special requirements                            | No special requireme                               | ents.   |                         |
| Laboratory information                          |  |   |                         |
| Tests   | Gram stain and cultu                               | re.   |                         |
| Measurement units                               | Growth detected or i                               | not detected.                                       |                         |
| Biological reference units                      |  |   |                         |
| Turnaround time                                 | 5 days.  |   |                         |
| Availability                                    | Routine hours and or                               | n-call.   |                         |
| Clinical information                            |  |   |                         |
| Factors known to significant affect the results | tly Delays in transportat                          | ion may affect the recovery                         | of pathogens.           |

#### **Back to index**

Authorised by: T Carey/C Frearson DCN: MIC-P-006-13.2 Date of issue: 12/12/2025 Page 58 of 187



#### **Corneal scrape**

Keratitis is an inflammation of the cornea which is a serious condition requiring prompt and meticulous investigation and may progress to perforation and blindness if treatment is unsuccessful. Predisposing factors include prior ocular disease, wearing contact lenses and use of topical corticosteroids. The condition may be caused by a wide range of bacteria, fungi and parasites.

| <b>Examinations offered</b>  |   |  |   |  |
|--|---|--|---|--|
| Collection container   | Specimen  | Sample volume  | Request form  |  |
| Chocolate agar<br>SAB agar<br>FAA agar<br>Acanthamoeba plate<br>Microscope slide | Aqueous and vitreous humour, corneal scrapings. Direct inoculation onto culture plates and microscope slide   | Sufficient quantity to make a visible deposit on to a microscope slide and to inoculate agar plates  |   |  |
| Sample instructions  |   |  |   |  |
| Collection   | <ul> <li>Performed by trained</li> <li>Performed after</li> <li>Use sterile need</li> <li>Carefully spread marker) for Grar</li> <li>Carefully smear</li> </ul> | perfore antimicrobial therapy so staff according to Trust policy instillation of local anaesthet le or loop to scrape base of ultimaterial onto glass slide (circy material onto agar plate en to make an impression smate priority. | cy:<br>cic eye drops<br>lcer<br>cle area with permanent |  |
| Specimen transport   |   | Specimens should be sent to the laboratory without delay during normal working hours and on-call.  |   |  |
| Storage requirements   | Delays of over 48 ho  | Outside of normal working hours samples should be refrigerated.  Delays of over 48 hours are undesirable.  |   |  |
| Special requirements   |   | ry (Telephone 01793 604798)<br>oeba culture,24 hours in advance  | ·   |  |
| Laboratory information   |   |  |   |  |
| Tests  | Gram stain and cultu  | re.  |   |  |
| Measurement units  | Growth detected or I  | not detected.  |   |  |
| Biological reference units   |   |  |   |  |
| Turnaround time  | 5 days.   |  |   |  |
| Availability   | Routine hours and or  | n-call.  |   |  |
| Clinical information   |   |  |   |  |
| Factors known to significant affect the results                                  | transported immedia   | nears are inoculated at the pa<br>stely to the laboratory for pro<br>ion may affect the recovery o   | cessing.  |  |
| Back to index  |   |  |   |  |

Authorised by: T Carey/C Frearson DCN: MIC-P-006-13.2 Date of issue: 12/12/2025

THIS DOCUMENT IS UNCONTROLLED WHEN PRINTED

Page 59 of 187



#### **COVID-19 PCR**

| Examinations offered                           |   |  |  |  |
|--|---|--|--|--|
| Collection container                           | Specimen  | Sample volume  | Request form   |  |
| Vou.   | Viral swab in transport media   | Nose and throat swab   |  |  |
| Sample instructions                            |   |  |  |  |
| Collection                                     |   | ab collected wearing correct<br>ove viral transport media fro  | PPE. Swabs should be double om sample container.   |  |
| Specimen transport                             | where appropriate t   | e taken directly to Microbiol<br>o prevent delay of results. O<br>aken to Pathology Reception  | outside working hours  |  |
| Storage requirements                           | Outside of normal w   | orking hours samples should  | d be refrigerated.   |  |
| Special requirements                           | Do <b>not</b> ring the labo   | Clinical details are essential for processing.  Do <b>not</b> ring the laboratory for results.  For rapid testing please speak to the Site Managers. |  |  |
| Laboratory information                         |   |  |  |  |
| Tests  | SARS-CoV2 PCR Test  | :  |  |  |
| Measurement units                              | N/A   |  |  |  |
| Biological reference units                     | N/A   |  |  |  |
| Turnaround time                                | Rapid: 2 hours*<br>Routine: 6-8 hours*<br>*From receipt in lab                                    | oratory  |  |  |
| Availability                                   | Weekday: Routine hours Weekend: Routine hours with scope for site approved rapid testing at 16:00 |  |  |  |
| Clinical information                           |   |  |  |  |
| Factors known to significan affect the results | viral material pres<br>processing times.<br>Detection of low-lev                                  | ent in the specimen and,<br>rel viral RNA may not be of cl<br>annot rule out infections/o  | d samples, low or insufficient<br>for delays in transport and<br>linical significance.<br>disease from other viral and |  |

# **Back to index**

Authorised by: T Carey/C Frearson DCN: MIC-P-006-13.2 Date of issue: 12/12/2025

THIS DOCUMENT IS UNCONTROLLED WHEN PRINTED

Page 60 of 187



# **Cryptococcal antigen**

Used to determine past or current infection.

| Examinations offered                           |  |  |                         |
|--|--|--|-------------------------|
| Collection container                           | Specimen   | Sample volume  | Request form            |
|  | Venous blood   | 2 – 6 mls  |                         |
|  | CSF  | Minimum volume 0.5ml   |                         |
| Sample instructions                            |  |  |                         |
| Collection                                     | <b>Cerebrospinal fluid</b><br>Refer to <u>CSF micros</u> | • •  |                         |
| Specimen transport                             | Specimens should be working hours.                       | pe sent to the laboratory with   | out delay during normal |
| Storage requirements                           | Outside of normal  | working hours samples should   | d be refrigerated.      |
| Special requirements                           | Clinical details are                                     | essential for processing.  |                         |
| Laboratory information                         |  |  |                         |
| Tests  | laboratory on Teler<br>parameters analyse                | This test is processed at an external reference centre. Contact the laboratory on Telephone 01793 604798 if further details are required. The parameters analysed in this test and any reference ranges for these parameters will be displayed on the report when it is returned to the requestor. |                         |
| Measurement units                              |  |  |                         |
| Biological reference units                     |  |  |                         |
| Turnaround time                                | 14 days.   |  |                         |
| Availability                                   | Routine hours.   |  |                         |
| Clinical information                           |  |  |                         |
| Factors known to significar affect the results | Haemolysis.  |  |                         |

#### **Back to index**

Authorised by: T Carey/C Frearson DCN: MIC-P-006-13.2 Date of issue: 12/12/2025 Page 61 of 187



# CSF (Cerebrospinal fluid) microscopy and culture

Meningitis is defined as inflammation of the meninges. This process may be acute or chronic and infective or non-infective. Many infective agents have been shown to cause meningitis, including viruses, bacteria, fungi and parasites.

| <b>Examinations offered</b> |   |  |                   |  |
|-----------------------------|---|--|-------------------|--|
| Collection container        | Specimen  | Sample volume  | Request form      |  |
|                             | CSF   | Minimum volume 1ml   |                   |  |
| Sample instructions         |   |  |                   |  |
|                             |   | ollected before antimicrobial thera y antibiotic administration if clinica   |                   |  |
|                             | with Trust p<br>Dispense CS                                 | Sample taken using a strict aseptic technique by trained medical staff in line with Trust procedure.  Dispense CSF (minimum 0.5ml in each bottle) into at least 3 sterile single use containers and label in order of removal, plus a fluoride bottle for the  |                   |  |
| Collection                  | Bottles shou<br>Bottle 1 – Vi<br>Bottle 2 – Ch              | Bottles should be labelled for departments in the following way: Bottle 1 – Virology Bottle 2 – Chemistry Last bottle - Microbiology   |                   |  |
|                             | antibiotics a<br>● Bacteria                                 | ingococcal meningitis/septicaemia<br>lready give in community) also ser<br>al throat swab and request mening<br>lood for meningococcal DNA PCR   | nd:               |  |
| Specimen transport          | Specimens s<br>hours. Outs<br>reception fri<br>through swit | Specimens should be sent to the laboratory without delay during normal hours. Outside of normal hours samples should be placed in the pathology reception fridge and the on-call Microbiology Biomedical Scientist contacted through switchboard (Telephone 01793 604020).  Do not use pneumatic chute system if investigation for Xanthochromia |                   |  |
| Storage requirements        | See above.  |  |                   |  |
| Special requirements        | Ideally collec  | Always contact the laboratory when sending specimens. Ideally collect the CSF sample in 3 consecutive universal containers, labelled 1 to 3 accordingly.   |                   |  |
| Laboratory information      |   |  |                   |  |
| Tests                       | Differential of Detection of                                | white blood cells and red blood ce<br>of white blood cells (qualitative).<br>f Cryptococcus neoformans capsulo<br>f gram positive and negative bacte   | es (qualitative). |  |

Authorised by: T Carey/C Frearson DCN: MIC-P-006-13.2
Date of issue: 12/12/2025 Page 62 of 187



|   | General isolation and characterisation of aerobic, microaerophilic and anaerobic micro-organisms (qualitative).   |  |
|---|---|--|
| Measurement units                                 | Cell count x 10 <sup>6</sup> /  | I  |
| Biological reference units                        | Leucocytes: Neonates 1 – 12 months Adults Erythrocytes:   | 0 – 30 cells x 10 <sup>6</sup> /l 0 – 20 cells x 10 <sup>6</sup> /l 0 – 5 cells x 10 <sup>6</sup> /l No red cells should be present in normal CSF* |
| Turnaround time                                   | Microscopy 2 hours. Culture 2 days.  Significant positive results are communicated to clinicians as and when they arise.  |  |
| Availability                                      | Routine hours and on-call.  |  |
| Clinical information                              |   |  |
| Factors known to significantly affect the results | Cells disintegrate. A delay in transportation may produce a cell count that is not reflective of the clinical situation of the patient.  Delays in transportation may affect the recovery of pathogens. |  |

# **Back to index**

Authorised by: T Carey/C Frearson DCN: MIC-P-006-13.2
Date of issue: 12/12/2025 Page 63 of 187



# **CSF (Cerebrospinal fluid) Viral PCR (Molecular Testing)**

The standard viral PCR panel includes Enterovirus, Herpes simplex virus and Varicella-Zoster. Please contact the Microbiology Consultant if extended testing is required.

| Examinations offered                           |   |   |  |  |
|--|---|---|--|--|
| Collection container                           | Specimen  | Sample volume   | Request form   |  |
|  | CSF   | Minimum volume 1ml  |  |  |
| Sample instructions                            |   |   |  |  |
| Collection                                     | Refer to <u>CSF</u>   | microscopy and culture.   |  |  |
| Specimen transport                             | Refer to <u>CSF</u>   | microscopy and culture.   |  |  |
| Storage requirements                           | Refer to <u>CSF</u>   | microscopy and culture.   |  |  |
| Special requirements                           | Refer to CSF  | microscopy and culture.   |  |  |
| Laboratory information                         |   |   |  |  |
| Tests  | laboratory of parameters parameters requestor. nucleic acid | This test is processed at an external reference centre. Contact the laboratory on Telephone 01793 604798 if further details are required. The parameters analysed in this test and any reference ranges for these parameters will be displayed on the report when it is returned to the requestor. Detection of Enterovirus nucleic acid, Varizella-Zoster virus nucleic acid, Herpes Simplex Virus (HSV) type 1 (HSV-1) and HSV type 2 (HSV-2) nucleic acid (qualitative). |  |  |
| Measurement units                              | N/A   |   |  |  |
| Biological reference units                     | N/A   |   |  |  |
| Turnaround time                                | 4 days<br>Significant p<br>arise.                           | positive results are communicated t   | to clinicians as and when they   |  |
| Availability                                   | Routine hou   | ırs.  |  |  |
| Clinical information                           |   |   |  |  |
| Factors known to significan affect the results | inappropria of organism detection of                        | ves may occur for a variety of reason<br>te timing of sample collection, inap<br>below the detectable limit of the a<br>f an assay sampling variation will re<br>merging variants may also occur wh   | propriate sample, presence<br>assay. Towards the limit of<br>esult in lower reproducibility. |  |

#### **Back to index**

DCN: MIC-P-006-13.2 Authorised by: T Carey/C Frearson Date of issue: 12/12/2025

THIS DOCUMENT IS UNCONTROLLED WHEN PRINTED

Page 64 of 187



# Culture

| Examinations offered                           |                                      |   |  |  |
|--|--------------------------------------|---|--|--|
| Collection container                           | Specimen                             | Sample volume   | Request form   |  |
| OBD columbia Maris   S   S                     | Amies transport swal                 | b   |  |  |
|  | Collection of pus or exudate         |   |  |  |
| 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1          | Collection of pus or exudate         |   |  |  |
| Sample instructions                            |                                      |   |  |  |
| Collection                                     | Optimally colle                      | ected before antimicrobial the  | rapy started.  |  |
| Specimen transport                             | Specimens sho working hours.         | uld be sent to the laboratory   | without delay during normal                                  |  |
| Storage requirements                           |                                      | Outside of normal working hours samples should be refrigerated.  Delays of over 48 hours are undesirable. |  |  |
| Special requirements                           | Please state an                      | Please state anatomical site and nature of lesion on request form   |  |  |
| Laboratory information                         |                                      |   |  |  |
| Tests  | quantitative) (f<br>General isolatio |   | e and negative bacteria (semi-<br>robic, microaerophilic and |  |
| Measurement units                              | Growth detect                        | ed or not detected.   |  |  |
| Biological reference units                     |                                      |   |  |  |
| Turnaround time                                | 4 days.                              |   |  |  |
| Availability                                   | Routine hours.                       |   |  |  |
| Clinical information                           |                                      |   |  |  |
| Factors known to significat affect the results | Delays in trans                      | portation may affect the reco   | very of pathogens.   |  |

#### **Back to index**

Authorised by: T Carey/C Frearson DCN: MIC-P-006-13.2
Date of issue: 12/12/2025 Page 65 of 187



#### **Cystic fibrosis**

Cystic fibrosis (CF) is caused by a defect in the CF transmembrane conductance regulator gene that affects the transport of ions and water across the epithelium. This leads to progressive pulmonary disease associated with pulmonary infections, which are the major cause of morbidity and mortality in CF patients. The major pathogens are S. aureus, H. influenza (usually non-encapsulated in CF patients), S. pneumoniae, Burkholderia and pseudomonads, particularly mucoid P. aeruginosa strains. Strains of P. aeruginosa with differing antibiotic susceptibilities may be isolated from a single sample.

| Examinations offered  |  |   |              |  |
|---|--|---|--------------|--|
| Collection container  | Specimen   | Sample volume   | Request form |  |
| 9BD Christian Inni   O   O  | Cough swab (Amies transport swab)  |   |              |  |
|   | Sputum   | Minimum volume 5ml  |              |  |
| Sample instructions   |  |   |              |  |
| Optimally collected before antimicrobial therapy started.  Sputum specimens Refer to Respiratory samples for culture. Cough swabs Younger patients do not usually expectorate and cough swabs may be taker from the upper airway as an alternative to sputum samples. |  |   |              |  |
| Specimen transport  | Specimens should be sent to the laboratory without delay during normal working hours.  |   |              |  |
| Storage requirements  |  | Outside of normal working hours samples should be refrigerated.  Delays of over 48 hours are undesirable. |              |  |
| Special requirements  | No special require   | No special requirements.  |              |  |
| Laboratory information  |  |   |              |  |
| Tests   | General isolation and characterisation of aerobic, microaerophilic and anaerobic micro-organisms (qualitative).  |   |              |  |
| Measurement units   | Growth detected or not detected.   |   |              |  |
| Biological reference units  |  |   |              |  |
| Turnaround time   | 4 days.  |   |              |  |
| Availability  | Routine hours.   |   |              |  |
| Clinical information  |  |   |              |  |
| Factors known to significan affect the results  | Delays in transportation may affect the recovery of pathogens.  A positive cough swab is a strong predictor of a positive sputum sample; however, a negative cough swab cannot rule out lower airway infection and persistent symptoms should be further investigated, for example by BAL. |   |              |  |

#### **Back to index**

DCN: MIC-P-006-13.2 Authorised by: T Carey/C Frearson Date of issue: 12/12/2025



# Cytomegalovirus (CMV) serology

Diagnosis of acute/recent or reactivated disease (IgM) or if evidence of past infection/exposure required (IgG).

| Examinations offered                           |   |   |              |  |
|--|---|---|--------------|--|
| Collection container                           | Specimen  | Sample volume   | Request form |  |
|  | Venous blood  | 2 – 6 mls   |              |  |
| Sample instructions                            |   |   |              |  |
| Collection                                     | No special require  | No special requirements.  |              |  |
| Specimen transport                             | Specimens should working hours.                                   | Specimens should be sent to the laboratory without delay during normal working hours.   |              |  |
| Storage requirements                           | Outside of normal   | Outside of normal working hours samples should be refrigerated.   |              |  |
| Special requirements                           | Clinical details are  | Clinical details are essential for processing.  |              |  |
| Laboratory information                         |   |   |              |  |
| Tests  | at an external refe<br>01793 604798 if fu<br>this test and any re | Detection of CMV IgM and IgG antibody (qualitative). This test is processed at an external reference centre. Contact the laboratory on Telephone 01793 604798 if further details are required. The parameters analysed in this test and any reference ranges for these parameters will be displayed on the report when it is returned to the requestor. |              |  |
| Measurement units                              |   |   |              |  |
| Biological reference units                     |   |   |              |  |
| Turnaround time                                | 7 days.   | 7 days.   |              |  |
| Availability                                   | Routine hours.  | Routine hours.  |              |  |
| Clinical information                           |   |   |              |  |
| Factors known to significan affect the results | Haemolysis.   | Haemolysis.   |              |  |

#### **Back to index**

Authorised by: T Carey/C Frearson DCN: MIC-P-006-13.2 Date of issue: 12/12/2025

THIS DOCUMENT IS UNCONTROLLED WHEN PRINTED

Page 67 of 187



# Cytomegalovirus (CMV) PCR

Diagnosis of acute disease.

For diagnosis of congenital CMV send neonatal urine sample within first three weeks of life.

| <b>Examinations offered</b>                    |  |  |  |  |
|--|--|--|--|--|
| Collection container                           | Specimen   | Sample volume  | Request form   |  |
|  | EDTA blood                                       | Minimum volume 500μl   | The state of the |  |
|  | Urine  | Minimum volume 5ml   |  |  |
| Sample instructions                            |  |  |  |  |
| Collection                                     |  | <b>Urine</b> Refer to <u>Urine (microscopy and culture)</u> .  |  |  |
| Specimen transport                             | •  | Specimens should be sent to the laboratory without delay during normal working hours.  |  |  |
| Storage requirements                           | Outside of n                                     | ormal working hours samples should   | d be refrigerated.   |  |
| Special requirements                           | CMV DNA PO                                       | Clinical details are essential for processing.  CMV DNA PCR is a specialist test – outside of these specialties discuss with the Consultant Microbiologist.  |  |  |
| Laboratory information                         |  |  |  |  |
| Tests  | laboratory o<br>parameters                       | This test is processed at an external reference centre. Contact the laboratory on Telephone 01793 604798 if further details are required. The parameters analysed in this test and any reference ranges for these parameters will be displayed on the report when it is returned to the requestor.   |  |  |
| Measurement units                              |  |  |  |  |
| Biological reference units                     |  |  |  |  |
| Turnaround time                                | 14 days  | 14 days  |  |  |
| Availability                                   | Routine hou                                      | Routine hours.   |  |  |
| Clinical information                           |  |  |  |  |
| Factors known to significal affect the results | inappropriat<br>ntly of organism<br>detection of | False negatives may occur for a variety of reasons, for example inappropriate timing of sample collection, inappropriate sample, presence of organism below the detectable limit of the assay. Towards the limit of detection of an assay sampling variation will result in lower reproducibility. New and emerging variants may also occur which may not be detected by this assay. |  |  |

#### **Back to index**

Authorised by: T Carey/C Frearson DCN: MIC-P-006-13.2 Date of issue: 12/12/2025



# **Dengue and West Nile virus**

Used to determine past or current infection.

| Examinations offered                            |   |  |              |  |
|---|---|--|--------------|--|
| Collection container                            | Specimen  | Sample volume  | Request form |  |
|   | Venous blood  | 2 – 6 mls  |              |  |
| Sample instructions                             |   |  |              |  |
| Collection                                      | No special requi  | rements.   |              |  |
| Specimen transport                              | Specimens should be sent to the laboratory without delay during normal working hours. |  |              |  |
| Storage requirements                            | Outside of norm   | Outside of normal working hours samples should be refrigerated.  |              |  |
| Special requirements                            | Clinical details a  | Clinical details are essential for processing.   |              |  |
| Laboratory information                          |   |  |              |  |
| Tests   | laboratory on Te<br>parameters anal   | This test is processed at an external reference centre. Contact the laboratory on Telephone 01793 604798 if further details are required. The parameters analysed in this test and any reference ranges for these parameters will be displayed on the report when it is returned to the requestor. |              |  |
| Measurement units                               |   |  |              |  |
| Biological reference units                      |   |  |              |  |
| Turnaround time                                 | 14 days.  | 14 days.   |              |  |
| Availability                                    | Routine hours.  | Routine hours.   |              |  |
| Clinical information                            |   |  |              |  |
| Factors known to significant affect the results | tly<br>Haemolysis.  | Haemolysis.  |              |  |

#### **Back to index**

Date of issue: 12/12/2025

Authorised by: T Carey/C Frearson

THIS DOCUMENT IS UNCONTROLLED WHEN PRINTED

DCN: MIC-P-006-13.2 Page 69 of 187



# **Diphtheria serology**

Used to determine past or current infection.

| Examinations offered                           |  |   |              |  |
|--|--|---|--------------|--|
| Collection container                           | Specimen   | Sample volume   | Request form |  |
|  | Venous blood   | 2 – 6 mls   |              |  |
| Sample instructions                            |  |   |              |  |
| Collection                                     | No special re  | No special requirements.  |              |  |
| Specimen transport                             | Specimens should be sent to the laboratory without delay during normal working hours.  |   |              |  |
| Storage requirements                           | Outside of no  | Outside of normal working hours samples should be refrigerated. |              |  |
| Special requirements                           | Clinical details and any history of travel or occupational exposure are essential for processing.  |   |              |  |
| Laboratory information                         |  |   |              |  |
| Tests  | This test is processed at an external reference centre. Contact the laboratory on Telephone 01793 604798 if further details are required. The parameters analysed in this test and any reference ranges for these parameters will be displayed on the report when it is returned to the requestor. |   |              |  |
| Measurement units                              |  |   |              |  |
| Biological reference units                     |  |   |              |  |
| Turnaround time                                | 14 days.   | 14 days.  |              |  |
| Availability                                   | Routine hour   | Routine hours.  |              |  |
| Clinical information                           |  |   |              |  |
| Factors known to significan affect the results | Haemolysis.  | Haemolysis.   |              |  |

#### **Back to index**

Authorised by: T Carey/C Frearson DCN: MIC-P-006-13.2
Date of issue: 12/12/2025 Page 70 of 187



# Ear swab culture

| Examinations offered                           |                                 |   |              |  |
|--|---------------------------------|---|--------------|--|
| Collection container                           | Specimen                        | Sample volume   | Request form |  |
| O 3D columbia Nora O D                         | Ear swab (Amies transport swab) |   |              |  |
| Sample instructions                            |                                 |   |              |  |
| Collection                                     | Optimally collec                | Optimally collected before antimicrobial therapy started.   |              |  |
| Specimen transport                             | Specimens shou working hours.   | Specimens should be sent to the laboratory without delay during normal working hours.   |              |  |
| Storage requirements                           |                                 | Outside of normal working hours samples should be refrigerated.  Delays of over 48 hours are undesirable.                       |              |  |
| Special requirements                           | _                               | For investigation of fungal infection, scrapings of material from the ear canal are preferred, although swabs can also be used. |              |  |
| Laboratory information                         |                                 |   |              |  |
| Tests  |                                 | General isolation and characterisation of aerobic, microaerophilic and anaerobic micro-organisms (qualitative).                 |              |  |
| Measurement units                              | Growth detected                 | Growth detected or not detected.  |              |  |
| Biological reference units                     |                                 |   |              |  |
| Turnaround time                                | 4 days.                         | 4 days.   |              |  |
| Availability                                   | Routine hours.                  | Routine hours.  |              |  |
| Clinical information                           |                                 |   |              |  |
| Factors known to significan affect the results | Delays in transp                | Delays in transportation may affect the recovery of pathogens.  |              |  |

#### **Back to index**

Authorised by: T Carey/C Frearson DCN: MIC-P-006-13.2 Date of issue: 12/12/2025

THIS DOCUMENT IS UNCONTROLLED WHEN PRINTED

Page 71 of 187



#### **Enteric virus PCR**

Diagnosis of acute disease.

Enteric virus screen including:

- Adenovirus
- Astrovirus
- Rotavirus
- Sapovirus
- Norovirus

Rotavirus, sapovirus, astrovirus and adenovirus are major causes of acute gastroenteritis. The majority of infections occur in infants and young children. Infections in the elderly are also reported for these agents, and chronic infections can result in immunocompromised patients. Norovirus is the cause of epidemic gastroenteritis.

| Examinations offered       |  |   |   |
|----------------------------|--|---|---|
| Collection container       | Specimen   | Sample volume   | Request form  |
| 1 1 1                      | Stool sample   | Liquid specimen: 1 – 2ml<br>Formed specimen: large<br>pea size sample | A contract of the contract of |
| Sample instructions        |  |   |   |
| Collection                 | Specimen may be passed into a clean, dry, disposable bedpan or similar container and transferred to an appropriate collection container.   |   |   |
| Specimen transport         | Specimens should be sent to the laboratory without delay during normal working hours.  |   |   |
| Storage requirements       | Outside of normal working hours samples should be refrigerated.  |   |   |
| Special requirements       | Clinical details are essential for processing.   |   |   |
| Laboratory information     |  |   |   |
| Tests                      | This test is processed at an external reference centre. Contact the laboratory on Telephone 01793 604798 if further details are required. The parameters analysed in this test and any reference ranges for these parameters will be displayed on the report when it is returned to the requestor. |   |   |
| Measurement units          |  |   |   |
| Biological reference units |  |   |   |
| Turnaround time            | 14 days  |   |   |
| Availability               | Routine hours.   |   |   |

Authorised by: T Carey/C Frearson DCN: MIC-P-006-13.2 Date of issue: 12/12/2025 Page 72 of 187



| Clinical information                              |  |
|---|--|
| Factors known to significantly affect the results | False negatives may occur for a variety of reasons, for example inappropriate timing of sample collection, inappropriate sample, presence of organism below the detectable limit of the assay. Towards the limit of detection of an assay sampling variation will result in lower reproducibility. New and emerging variants may also occur which may not be detected by this assay. |

**Back to index** 

Authorised by: T Carey/C Frearson DCN: MIC-P-006-13.2
Date of issue: 12/12/2025 Page 73 of 187



### **Enterovirus PCR**

Diagnosis of acute disease.

| <b>Examinations offered</b>   |  |  |   |
|---|--|--|---|
| Collection container  | Specimen   | Sample volume  | Request form  |
|   | EDTA blood   | Minimum volume 500μl   |   |
| To B  | Green viral swab   | 1mL  |   |
| Sample instructions   |  |  |   |
| Collection  | No special require   | ments.   |   |
| Specimen transport  | Specimens should working hours.  | be sent to the laboratory with   | nout delay during normal  |
| Storage requirements  | requirements Outside of normal working hours samples should be refrigerated. |  | d be refrigerated.  |
| Special requirements  | Clinical details are essential for processing.                               |  |   |
| Laboratory information  |  |  |   |
| This test is processed at an external refere laboratory on Telephone 01793 604798 if for the second |  | phone 01793 604798 if furthe<br>sed in this test and any referer   | er details are required. The neer ranges for these                                  |
| Measurement units   |  |  |   |
| Biological reference units  |  |  |   |
| Turnaround time   | 14 days  |  |   |
| Availability  | Routine hours.   |  |   |
| Clinical information  |  |  |   |
| Factors known to significa affect the results   | inappropriate timi ntly of organism below detection of an as                 | ay occur for a variety of reasoning of sample collection, inapportion the detectable limit of the assay sampling variation will response wariants may also occur which | oropriate sample, presence ssay. Towards the limit of ult in lower reproducibility. |

#### **Back to index**

Authorised by: T Carey/C Frearson DCN: MIC-P-006-13.2
Date of issue: 12/12/2025 Page 74 of 187



## **Epstein Barr virus (EBV) serology**

Assay useful in distinguishing individuals who have acquired the infection recently from those who have not (EBV IgM, EBV IgG, EBV confirmation (EBNA)). Detection of EBV IgM is consistent with acute disease, but may also be detectable in chronic or reactivated disease.

| Examinations offered                           |                                |  |  |  |
|--|--------------------------------|--|--|--|
| Collection container                           | Specimen                       | Sample volume  | Request form   |  |
|  | Venous blood                   | 2 – 6 mls  | The state of the s |  |
| Sample instructions                            |                                |  |  |  |
| Collection                                     | No special req                 | uirements.   |  |  |
| Specimen transport                             | Specimens sho<br>working hours |  | ry without delay during normal   |  |
| Storage requirements                           | Outside of nor                 | mal working hours samples  | should be refrigerated.  |  |
| Special requirements                           | (IgM) or if evid               | State whether test for diagnosis of acute/recent or reactivated disease (IgM) or if evidence of past exposure required (IgG).  Clinical details are essential to allow for interpretation. |  |  |
| Laboratory information                         |                                |  |  |  |
| Tests  |                                |  |  |  |
| Measurement units                              |                                |  |  |  |
| Biological reference units                     |                                |  |  |  |
| Turnaround time                                | 7 days.                        | 7 days.  |  |  |
| Availability                                   | Routine hours.                 |  |  |  |
| Clinical information                           |                                |  |  |  |
| Factors known to significan affect the results | Haemolysis.                    |  |  |  |

#### **Back to index**

Authorised by: T Carey/C Frearson DCN: MIC-P-006-13.2 Date of issue: 12/12/2025 Page 75 of 187



# **Epstein Barr virus (EBV) PCR**

Diagnosis of acute disease.

| Examinations offered                           |  |  |  |  |
|--|--|--|--|--|
| Collection container                           | Specimen   | Sample volume  | Request form   |  |
|  | EDTA blood   | Minimum volume 500μl   |  |  |
| Sample instructions                            |  |  |  |  |
| Collection                                     | No special red   | quirements.  |  |  |
| Specimen transport                             | Specimens sh<br>working hour   | ould be sent to the laboratory with s.   | nout delay during normal   |  |
| Storage requirements                           | Outside of no  | rmal working hours samples shoul   | d be refrigerated.   |  |
| Special requirements                           | EBV DNA PCR  | Clinical details are essential for processing.  EBV DNA PCR is a specialist test – outside of these specialties discuss with the Consultant Microbiologist.  |  |  |
| Laboratory information                         |  |  |  |  |
| Tests  | This test is processed at an external reference centre. Contact the laboratory on Telephone 01793 604798 if further details are required. The parameters analysed in this test and any reference ranges for these parameters will be displayed on the report when it is returned to the requestor. |  |  |  |
| Measurement units                              |  |  |  |  |
| Biological reference units                     |  |  |  |  |
| Turnaround time                                | 14 days  | 14 days  |  |  |
| Availability                                   | Routine hour   | Routine hours.   |  |  |
| Clinical information                           |  |  |  |  |
| Factors known to significan affect the results | inappropriate tly of organism b detection of a   | es may occur for a variety of reason<br>e timing of sample collection, inapp<br>selow the detectable limit of the as<br>an assay sampling variation will res<br>erging variants may also occur whice | ropriate sample, presence say. Towards the limit of ult in lower reproducibility |  |

### **Back to index**

Authorised by: T Carey/C Frearson DCN: MIC-P-006-13.2
Date of issue: 12/12/2025 Page 76 of 187



# Eye and canalicular pus culture

| Examinations offered                           |  |  |  |  |
|--|--|--|--|--|
| Collection container                           | Specimen   | Sample volume  | Request form   |  |
|  | Collection of pus or exudate   | Minimum volume 1ml of pus  |  |  |
| OBD Christian Marie (Q) (D)                    | Eye swab (Amies transport swab)  |  | The second secon |  |
| Sample instructions                            |  |  |  |  |
| Collection                                     | Collection of pus or<br>tiny amounts, then<br>microflora.<br>Hold the swab para<br>lower eyelid. | before antimicrobial therapy sexudate is always preferable the sample the deepest part of the lell to the cornea and gently ru | to swabs, except when in e wound avoiding superficial ub the conjunctiva in the  |  |
| Specimen transport                             | Specimens should b working hours.  | Specimens should be sent to the laboratory without delay during normal working hours.  |  |  |
| Storage requirements                           |  | Outside of normal working hours samples should be refrigerated.  Delays of over 48 hours are undesirable.                      |  |  |
| Special requirements                           | Separate samples sl<br>detection of <u>viruses</u>   | nould be collected into approp<br>or <u>C.trachomatis</u> .  | oriate transport media for   |  |
| Laboratory information                         |  |  |  |  |
| Tests  | quantitative).<br>General isolation ar   | olood cells, gram positive and d characterisation of aerobic, ganisms (qualitative).   | ,  |  |
| Measurement units                              | Growth detected or   | not detected.  |  |  |
| Biological reference units                     |  |  |  |  |
| Turnaround time                                | 4 days, plus 2 days  | 4 days, plus 2 days for enrichment culture (pus).  |  |  |
| Availability                                   | Routine hours and o  | on-call (pus).   |  |  |
| Clinical information                           |  |  |  |  |
| Factors known to significan affect the results | Delays in transporta   | ation may affect the recovery o  | of pathogens.  |  |

## **Back to index**

Authorised by: T Carey/C Frearson DCN: MIC-P-006-13.2
Date of issue: 12/12/2025 Page 77 of 187



## **Faeces culture**

| Examinations offered                   |  |  |  |
|--|--|--|--|
| Collection container                   | Specimen   | Sample volume  | Request form   |
| 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | Stool sample   | Liquid specimen: 1 – 2ml<br>Formed specimen: large<br>pea size sample                                      |  |
| Sample instructions                    |  |  |  |
| Collection                             | Specimen may b container and tr  | ed before antimicrobial therapy<br>e passed into a clean, dry, dispos<br>ansferred to an appropriate colle | able bedpan or similar<br>ction container.   |
| Specimen transport                     | working hours.   | ld be sent to the laboratory witho   |  |
| Storage requirements                   |  | al working hours samples should<br>8 hours are undesirable.  | be refrigerated.   |
| Special requirements                   | Please provide ir  | nformation regarding recent forei  | ign travel and antibiotic use  |
| Laboratory information                 |  |  |  |
| Tests                                  | Presence and ide Detection of Cyc (qualitative). General isolation anaerobic micro-  Clostridium diffic 65yrs or if histor Rotavirus test per Norovirus test per the investigation Parasitology test clinical syndromic Repeat samples Microbiologists of Investigations not seem to the investigation of the investigation of the investigation of the investigations not seem to the investigation of the investigations not seem to the investigation of the investigations not seem to the investigation of the investigation | performed on samples depende   | Giardia lamblia (qualitative cosporidium sp oocysts microaerophilic and stient samples, patients ove ea. en <5 years. he Infection Control Team int on travel history and usually required — |
| Measurement units                      | Growth detected  | d or not detected.   |  |
| Biological reference units             |  |  |  |
| Turnaround time                        | 4 days.<br>Significant positi<br>arise.  | ve results are communicated to c   | clinicians as and when they  |
| Availability                           | Routine hours.   |  |  |

Authorised by: T Carey/C Frearson DCN: MIC-P-006-13.2 Date of issue: 12/12/2025

Department of Microbiology



| Clinical information                              |  |
|---|--|
| Factors known to significantly affect the results | Delays in transportation may affect the recovery of pathogens. |

**Back to index** 

Authorised by: T Carey/C Frearson DCN: MIC-P-006-13.2
Date of issue: 12/12/2025 Page 79 of 187



# **Faecal Calprotectin**

| <b>Examinations offered</b>                    |   |   |                         |  |
|--|---|---|-------------------------|--|
| Collection container                           | Specimen  | Sample volume   | Request form            |  |
| 20 M M 4 M                                     | Stool sample  | Liquid specimen: 1 – 2ml<br>Semi-formed: large pea<br>size sample   |                         |  |
| Sample instructions                            |   |   |                         |  |
| Collection                                     |   | assed into a clean, dry, disposa<br>ferred to an appropriate collec   |                         |  |
| Specimen transport                             | working hours.  | e sent to the laboratory witho  |                         |  |
| Storage requirements                           | Samples must be fro<br>hours are undesirab  |   | tory. Delays of over 48 |  |
| Special requirements                           | Faecal Calprotectin i<br>Childrens Unit.  | Faecal Calprotectin is only available for GP patients, Gastroenterology and Childrens Unit.                                     |                         |  |
| Laboratory information                         |   |   |                         |  |
| Tests  | Faecal Calprotectin   |   |                         |  |
| Measurement units                              | μg/g  |   |                         |  |
| Biological reference units                     | <100 µg/g - No evidence of IBD<br>100-<250 µg/g - Intermediate (Please repeat)<br>>250 µg/g – IBD likely, refer to Gastroenterology |   |                         |  |
| Turnaround time                                | 7 days  | 7 days  |                         |  |
| Availability                                   | Routine hours.  |   |                         |  |
| Clinical information                           |   |   |                         |  |
|  | Liquid stools are pro   | cessed by the Immunology De   | epartment in Bristol.   |  |
|  | Formed stools are in  | Formed stools are inappropriate for testing and will be rejected.   |                         |  |
| Factors known to significan affect the results | Patients who are ta   | Patients who are taking non-steroidal anti-inflammatory drugs (NSAIDs) may have elevations in their faecal calprotectin levels. |                         |  |
|  |   | d be interpreted in conjunct ssist clinicians in making patie   |                         |  |

#### **Back to index**

Authorised by: T Carey/C Frearson DCN: MIC-P-006-13.2
Date of issue: 12/12/2025 Page 80 of 187

Collection

#### Fluids from normally sterile sites

The detection of organisms in fluids that are normally sterile indicates significant infection, which can be life-threatening. Specimens may be taken primarily for culture or this may be incidental to the prime reason for obtaining the specimen.

Blood cultures may be positive with the same infecting organism, and occasionally may be positive when culture of the fluid fails to reveal the organism.

Fluids will be sterile in the absence of infection, as will "sympathetic effusions", and those of immunological or traumatic origin and those due to metabolic disease or heart failure.

Signs of infection may be difficult to detect clinically in patients whose joints are already inflamed due to rheumatological conditions. This is important because these patients are at increased risk of joint sepsis. Do not remove or cover barcodes on bottles as these are required by the laboratory.

| Examinations offered   |   |  |              |
|--|---|--|--------------|
| Collection container   | Specimen  | Sample volume  | Request form |
|  | Collection of amniotic fluid, bursa pericardial fluid, synovial (joint) fluid, peritoneal fluid (ascites), pleural fluid. | Minimum volume 1ml   |              |
| SOURCE STATE OF STATE |   | Inoculate with the recommended volume of 8-10mL in each adult bottle, or 1-3mL for paediatric bottles. |              |
| Sample instructions  |   |  |              |

Optimally collected before antimicrobial therapy started.

Samples include:

Ascitic fluid: ?spontaneous bacterial peritonitis

CAPD fluid: ?PD peritonitis Pleural fluid: ?empyema

Synovial or bursa fluid: ?septic arthritis or bursitis

Vitreous fluid: ?endophthalmitis

Samples taken using strict aseptic technique – by trained medical staff in

line with Trust procedure.

Ideally a minimum volume of 1ml should be collected.

Where adequate sample, inoculate also into blood culture bottle set.

Authorised by: T Carey/C Frearson DCN: MIC-P-006-13.2 Date of issue: 12/12/2025

THIS DOCUMENT IS UNCONTROLLED WHEN PRINTED

Page 81 of 187



| Specimen transport                                | Note: Fluids from existing indwelling drains are not considered to be 'sterile'. As with urinary catheters, drains commonly become colonised and any culture of fluid taken through them may simply reflect colonisation rather than infection. Drain fluid samples should be sent only where there is a high degree of suspicion of infection.  Specimens should be sent to the laboratory without delay during normal  |  |
|---|--|--|
|   | working hours.   |  |
| Storage requirements                              | Outside of normal working hours samples should be refrigerated.  |  |
| Special requirements                              | Clinical details are essential for processing.  Total cell counts performed on Ascitic fluid SBP patients only.  |  |
| Laboratory information                            |  |  |
| Tests   | Presence of white blood cells (quantitative) (ascitic fluid only).  Detection of crystals (qualitative).(synovial fluid only).  Detection of white blood cells, gram positive and negative bacteria (semi-quantitative).  General isolation and characterisation of aerobic, microaerophilic and anaerobic micro-organisms (qualitative).  |  |
| Measurement units                                 | Cell count x 10 <sup>6</sup> /l  |  |
| Biological reference units                        | Total white cell count <500 cells x 10 <sup>6</sup> /l   |  |
| Turnaround time                                   | Microscopy 2 hours.<br>Culture 5 days.   |  |
| Availability                                      | Routine hours and on-call.   |  |
| Clinical information                              |  |  |
| Factors known to significantly affect the results | Small volumes – fluids such as synovial fluids may be received inadequate volumes which may impede the recovery of organisms.  Large volumes – specimens such as peritoneal fluid and ascetic fluid may contain very low numbers or organisms which are usually received in adequate quantities and require concentration to increase likelihood of successful culture.  Cells disintegrate. A delay in transportation may produce a cell count that is not reflective of the clinical situation of the patient.  Delays in transportation may affect the recovery of pathogens. |  |

#### **Back to index**

Authorised by: T Carey/C Frearson DCN: MIC-P-006-13.2 Date of issue: 12/12/2025 Page 82 of 187



# **Genital swab culture (female)**

| Examinations offered   |  |  |   |
|------------------------|--|--|---|
| Collection container   | Specimen   | Sample volume  | Request form  |
|                        | HVS, vaginal discharge,<br>vulval swab, labial swab,<br>cervical swab,<br>endocervical swab,<br>urethral swab (Amies<br>transport swab)  |  |   |
| Sample instructions    |  |  |   |
| Collection             | Genital tract swabs Cervical and high va is important to avoi posterior fornix, inc pelvic infection, inc swabbed. High vaginal swabs After the introducti the surface of the v Cervical swabs After introduction of inside the endocerv Urethral swabs Contamination with swabs are available passed urine for at | ryical swabs should be taked vulval contamination of cluding any obvious candidated and of the speculum, the swaginal vault.  If the speculum to the vaginal vault. | en with the aid of a speculum. It the swab. For Trichomonas, the al plaques should be swabbed. If ected, the cervical os should be vab should be rolled firmly over ina, the swab should be rotated e vulva should be avoided. Thin is. The patient should not have |
| Specimen transport     |  |  | rithout delay during normal   |
| Storage requirements   |  | vorking hours samples sho<br>ours are undesirable.   | ould be refrigerated.   |
| Special requirements   |  | essential for processing.<br>os for gonococcal investiga   | ation should not be refrigerated.   |
| Laboratory information |  |  |   |
| Tests                  | Trichomonas vagini<br>General isolation ar   | llood cells, red blood cells,<br>alis, clue cells (quantitative<br>nd characterisation of aero<br>ganisms (qualitative).   | e).   |
| Measurement units      | Growth detected or   | not detected.  |   |

Authorised by: T Carey/C Frearson DCN: MIC-P-006-13.2
Date of issue: 12/12/2025 Page 83 of 187
THIS DOCUMENT IS UNCONTROLLED WHEN PRINTED



| Biological reference units                        |  |
|---|--|
| Turnaround time                                   | 4 days.  |
| Availability                                      | Routine hours.   |
| Clinical information                              |  |
| Factors known to significantly affect the results | Delays in transportation may affect the recovery of pathogens.  Female genital swabs for gonococcal investigation should not be refrigerated as this significantly reduces the recovery rate.  Delays in transportation may reduce the recovery of Neisseria gonorrhoea. |

### **Back to index**

Authorised by: T Carey/C Frearson DCN: MIC-P-006-13.2
Date of issue: 12/12/2025 Page 84 of 187



# Genital specimens (excluding female genital swabs)

| Examinations offered   |  |  |                            |  |
|--|--|--|----------------------------|--|
| Collection container   | Specimen   | Sample volume  | Request form               |  |
| OID contrast tent O  | Penile swab, urethral<br>swab, screening swabs for<br>Neisseria gonorrhoea<br>(Amies transport swab) |  |                            |  |
|  | Intra-uterine<br>contraceptive device<br>(IUCD)  | Entire device should be sent   |                            |  |
| D months and the second | Collection of pus or exudate   | Minimum volume 1ml   |                            |  |
| Sample instructions  |  |  |                            |  |
|  | Optimally collected b  | efore antimicrobial therapy  | started.                   |  |
| Collection   | avoided. Thin swabs a<br>should not have pass<br>not apparent, attemp<br>The swab is gently pa       | Contamination with micro-organisms from the vulva or the foreskin should be avoided. Thin swabs are available for collection of specimens. The patient should not have passed urine for at least one hour. For males, if a discharge is not apparent, attempts should be made to "milk" exudate from the penis. The swab is gently passed through the urethral meatus and rotated.  Intrauterine contraceptive devices (IUCDs) The entire device should be sent. |                            |  |
|  | Rectal swabs Rectal s  | Rectal swabs Rectal swabs are taken via a proctoscope.   |                            |  |
|  |  | <b>Throat swabs</b> Throat swabs should be taken from the tonsillar area and/or posterior pharynx avoiding the tongue and uvula.   |                            |  |
|  |  | are taken from the fallopia<br>s, etc, taken during surgery.   | n tubes, tubo-ovarian and  |  |
|  | Separate samples sho<br>detection of <u>viruses</u> o  | ould be collected into appro<br>or <u>C. trachomatis</u> .   | priate transport media for |  |
| Specimen transport   | Specimens should be working hours.   | sent to the laboratory with  | out delay during normal    |  |
| Storage requirements   |  | Outside of normal working hours samples should be refrigerated.  Delays of over 48 hours are undesirable.  |                            |  |
| Special requirements   |  | sential for processing.<br>nococcal investigation shoul  | d not be refrigerated.     |  |
| Laboratory information   |  |  |                            |  |
| Tests  | quantitative) (fluids a  | ood cells, gram positive and<br>and pus only).<br>I characterisation of aerobic  |                            |  |

Authorised by: T Carey/C Frearson DCN: MIC-P-006-13.2
Date of issue: 12/12/2025 Page 85 of 187



|   | anaerobic micro-organisms (qualitative).  |
|---|---|
| Measurement units                                 | Growth detected or not detected.  |
| Biological reference units                        |   |
| Turnaround time                                   | 4 days.   |
| Availability                                      | Routine hours.  |
| Clinical information                              |   |
| Factors known to significantly affect the results | Delays in transportation may affect the recovery of pathogens.  Genital swabs for gonococcal investigation should not be refrigerated as this significantly reduces the recovery rate.  Delays in transportation may reduce the recovery of Neisseria gonorrhoea. |

#### **Back to index**

Authorised by: T Carey/C Frearson DCN: MIC-P-006-13.2
Date of issue: 12/12/2025 Page 86 of 187



## Helicobacter pylori IgG

Infection with *H. pylori* is associated with peptic ulceration. There is evidence that it may play an important role in non-ulcer dyspepsia.

| Examinations offered                          |                  |   |  |  |
|---|------------------|---|--|--|
| Collection container                          | Specimen         | Sample volume   | Request form   |  |
|   | Venous blood     | 2 – 6 mls   | Comparison   Com |  |
| Sample instructions                           |                  |   |  |  |
| Collection                                    | No special rec   | quirements.   |  |  |
| Specimen transport                            | •                | Specimens should be sent to the laboratory without delay during normal working hours. |  |  |
| Storage requirements                          | Outside of no    | Outside of normal working hours samples should be refrigerated.                       |  |  |
| Special requirements                          | Clinical details | Clinical details and date of onset are essential for processing.                      |  |  |
| Laboratory information                        |                  |   |  |  |
| Tests   | Detection of H   | Detection of Helicobacter pylori IgG antibody (qualitative).                          |  |  |
| Measurement units                             |                  |   |  |  |
| Biological reference units                    |                  |   |  |  |
| Turnaround time                               | 7 days.          | 7 days.   |  |  |
| Availability                                  | Routine hours    | Routine hours.  |  |  |
| Clinical information                          |                  |   |  |  |
| Factors known to significa affect the results | ntly Haemolysis. |   |  |  |

#### **Back to index**

Authorised by: T Carey/C Frearson DCN: MIC-P-006-13.2 Date of issue: 12/12/2025 Page 87 of 187



# Helicobacter pylori Stool Antigen

| Examinations offered                           |  |   |   |
|--|--|---|---|
| Collection container                           | Specimen   | Sample volume   | Request form  |
| at a a a life                                  | Stool sample   | 1-2g stool  |   |
| Sample instructions                            |  |   |   |
| Collection                                     |  | be passed into a clean, dry, d<br>cransferred to an appropriate | · ·   |
| Specimen transport                             | Specimens sho working hours.                                       | uld be sent to the laboratory                                   | without delay during normal                                     |
| Storage requirements                           | Outside of nor   | mal working hours samples sh                                    | nould be refrigerated.  |
| Special requirements                           | H. antigen testing is only available for Gastroenterology and IPC. |   |   |
| Laboratory information                         |  |   |   |
| Tests  | Helicobacter A   | ntigen  |   |
| Measurement units                              |  |   |   |
| Biological reference units                     |  |   |   |
| Turnaround time                                | 5 days   |   |   |
| Availability                                   | Routine hours.   |   |   |
| Clinical information                           |  |   |   |
| Factors known to significan                    |  | e off PPIs for two weeks and o                                  | off antibiotics for four weeks.                                 |
| Factors known to significan affect the results | Assay results  | •   | njunction with other clinical and patient management decisions. |

### **Back to index**

Authorised by: T Carey/C Frearson DCN: MIC-P-006-13.2
Date of issue: 12/12/2025 Page 88 of 187



## Hepatitis A virus (HAV) IgG

Used to screen for Hepatitis past infection or immunity. Positive result indicates exposure at some time. Test is performed on the assumption that this is a screening test for immunity. If patient acutely icteric or acute infection suspected then request Hepatitis A IgM.

| Examinations offered                            |                                   |   |  |  |
|---|-----------------------------------|---|--|--|
| Collection container                            | Specimen                          | Sample volume   | Request form   |  |
|   | Venous blood                      | 2 – 6 mls   | ### Company of the co |  |
| Sample instructions                             |                                   |   |  |  |
| Collection                                      | No special requiren               | nents.  |  |  |
| Specimen transport                              | Specimens should I working hours. | Specimens should be sent to the laboratory without delay during normal working hours. |  |  |
| Storage requirements                            | Outside of normal                 | Outside of normal working hours samples should be refrigerated.                       |  |  |
| Special requirements                            | Clinical details and              | Clinical details and date of onset are essential for processing.                      |  |  |
| Laboratory information                          |                                   |   |  |  |
| Tests   | Detection of Hepat                | Detection of Hepatitis A IgG antibody (qualitative).                                  |  |  |
| Measurement units                               |                                   |   |  |  |
| Biological reference units                      |                                   |   |  |  |
| Turnaround time                                 | 7 days.                           | 7 days.   |  |  |
| Availability                                    | Routine hours.                    | Routine hours.  |  |  |
| Clinical information                            |                                   |   |  |  |
| Factors known to significant affect the results | tly<br>Haemolysis.                |   |  |  |

#### **Back to index**

Authorised by: T Carey/C Frearson DCN: MIC-P-006-13.2
Date of issue: 12/12/2025 Page 89 of 187



## Hepatitis A virus (HAV) IgM

For diagnosis of acute Hepatitis A infection (jaundice in adults). Hepatitis A in adults does NOT present as abnormal liver functions. It invariably presents as an acute icteric disease (jaundice). It does not cause chronic disease.

| Examinations offered                           |                                  |   |              |  |
|--|----------------------------------|---|--------------|--|
| Collection container                           | Specimen                         | Sample volume   | Request form |  |
|  | Venous blood                     | 2 – 6 mls   |              |  |
| Sample instructions                            |                                  |   |              |  |
| Collection                                     | No special requiren              | nents.  |              |  |
| Specimen transport                             | Specimens should tworking hours. | Specimens should be sent to the laboratory without delay during normal working hours. |              |  |
| Storage requirements                           | Outside of normal v              | Outside of normal working hours samples should be refrigerated.                       |              |  |
| Special requirements                           | Clinical details and             | Clinical details and date of onset are essential for processing.                      |              |  |
| Laboratory information                         |                                  |   |              |  |
| Tests  | Detection of Hepat               | itis A IgM antibody (qualita  | tive).       |  |
| Measurement units                              |                                  |   |              |  |
| Biological reference units                     |                                  |   |              |  |
| Turnaround time                                | 7 days.                          |   |              |  |
| Availability                                   | Routine hours.                   | Routine hours.  |              |  |
| Clinical information                           |                                  |   |              |  |
| Factors known to significan affect the results | Haemolysis.                      |   |              |  |

#### **Back to index**

Authorised by: T Carey/C Frearson DCN: MIC-P-006-13.2
Date of issue: 12/12/2025 Page 90 of 187



## Hepatitis B virus (HBV) confirmation

Routinely performed on sample if newly detected HBV surface Ag, for confirmatory purposes and to help assess timing and infectivity of disease. Also used to monitor response to treatment.

The test consists of HBV surface antigen, HBV surface antigen confirmation, HBV core total antibody, HBV core IgM, HBV e antigen and HBV e antibody.

| Examinations offered                           |                               |  |                                |  |
|--|-------------------------------|--|--------------------------------|--|
| Collection container                           | Specimen                      | Sample volume  | Request form                   |  |
|  | Venous blood                  | 2 – 6 mls  |                                |  |
| Sample instructions                            |                               |  |                                |  |
| Collection                                     | No special rec                | quirements.  |                                |  |
| Specimen transport                             | Specimens sh<br>working hours |  | ry without delay during normal |  |
| Storage requirements                           | Outside of no                 | rmal working hours samples   | should be refrigerated.        |  |
| Special requirements                           | Clinical details              | s are essential for processing   | <b>J</b> .                     |  |
| Laboratory information                         |                               |  |                                |  |
| Tests  | laboratory on parameters a    | This test is processed at an external reference centre. Contact the laboratory on Telephone 01793 604798 if further details are required. The parameters analysed in this test and any reference ranges for these parameters will be displayed on the report when it is returned to the requestor. |                                |  |
| Measurement units                              |                               |  |                                |  |
| Biological reference units                     |                               |  |                                |  |
| Turnaround time                                | 14 days.                      | 14 days.   |                                |  |
| Availability                                   | Routine hours                 | Routine hours.   |                                |  |
| Clinical information                           |                               |  |                                |  |
| Factors known to significar affect the results | Haemolysis.                   |  |                                |  |

#### **Back to index**

Authorised by: T Carey/C Frearson DCN: MIC-P-006-13.2
Date of issue: 12/12/2025 Page 91 of 187



## **Hepatitis B virus (HBV) Total Antibody**

HBV core antibody serves as a marker of past infection.

Where HBV core antibody is detected, further testing for presence of HBV surface antibody will automatically be performed if sufficient serum.

| Examinations offered                           |                                |  |                                |  |
|--|--------------------------------|--|--------------------------------|--|
| Collection container                           | Specimen                       | Sample volume  | Request form                   |  |
|  | Venous blood                   | 2 – 6 mls  |                                |  |
| Sample instructions                            |                                |  |                                |  |
| Collection                                     | No special req                 | uirements.   |                                |  |
| Specimen transport                             | Specimens sho<br>working hours |  | ry without delay during normal |  |
| Storage requirements                           | Outside of nor                 | Outside of normal working hours samples should be refrigerated.  |                                |  |
| Special requirements                           | Clinical details               | Clinical details and date of onset are essential for processing. |                                |  |
| Laboratory information                         |                                |  |                                |  |
| Tests  | Detection of H                 | Detection of Hepatitis B core IgG antibody (qualitative).        |                                |  |
| Measurement units                              |                                |  |                                |  |
| Biological reference units                     |                                |  |                                |  |
| Turnaround time                                | 7 days.                        | 7 days.  |                                |  |
| Availability                                   | Routine hours                  | Routine hours.   |                                |  |
| Clinical information                           |                                |  |                                |  |
| Factors known to significan affect the results | Haemolysis.                    |  |                                |  |

#### **Back to index**

DCN: MIC-P-006-13.2 Authorised by: T Carey/C Frearson Date of issue: 12/12/2025

THIS DOCUMENT IS UNCONTROLLED WHEN PRINTED

Page 92 of 187



## Hepatitis B virus (HBV) core IgM antibody

HBV core antibody serves as a marker of past infection. Investigation performed during routine infectious disease screening for patients undergoing infertility treatment.

| Examinations offered                           |                                 |  |                           |  |
|--|---------------------------------|--|---------------------------|--|
| Collection container                           | Specimen                        | Sample volume  | Request form              |  |
|  | Venous blood                    | 2 – 6 mls  |                           |  |
| Sample instructions                            |                                 |  |                           |  |
| Collection                                     | No special require              | ments.   |                           |  |
| Specimen transport                             | Specimens should working hours. | be sent to the laboratory wi                                     | thout delay during normal |  |
| Storage requirements                           | Outside of normal               | Outside of normal working hours samples should be refrigerated.  |                           |  |
| Special requirements                           | Clinical details and            | Clinical details and date of onset are essential for processing. |                           |  |
| Laboratory information                         |                                 |  |                           |  |
| Tests  | Detection of Hepa               | Detection of Hepatitis B core IgM antibody (qualitative).        |                           |  |
| Measurement units                              |                                 |  |                           |  |
| Biological reference units                     |                                 |  |                           |  |
| Turnaround time                                | 7 days.                         |  |                           |  |
| Availability                                   | Routine hours.                  | Routine hours.   |                           |  |
| Clinical information                           |                                 |  |                           |  |
| Factors known to significan affect the results | n <b>tly</b> Haemolysis.        |  |                           |  |

#### **Back to index**

Authorised by: T Carey/C Frearson DCN: MIC-P-006-13.2
Date of issue: 12/12/2025 Page 93 of 187



## Hepatitis B virus (HBV) surface antibody

Test to determine if protective immunity has been achieved following immunisation.

Low levels HBV surface antibody may be found in patients who have past infection.

| Examinations offered                            |                                 |   |                             |  |
|---|---------------------------------|---|-----------------------------|--|
| Collection container                            | Specimen                        | Sample volume   | Request form                |  |
|   | Venous blood                    | 2 – 6 mls   |                             |  |
| Sample instructions                             |                                 |   |                             |  |
| Collection                                      | No special require              | ments.  |                             |  |
| Specimen transport                              | Specimens should working hours. | be sent to the laboratory   | without delay during normal |  |
| Storage requirements                            | Outside of norma                | working hours samples s   | hould be refrigerated.      |  |
| Special requirements                            | Accurate interpre               | Should be tested 6-8 weeks after final dose of Hepatitis B vaccination.  Accurate interpretation of this result is reliant upon detailed vaccination history and clinical details.      |                             |  |
| Laboratory information                          |                                 |   |                             |  |
| Tests   | Detection of Hepa               | titis B surface antibody (c   | qualitative).               |  |
| Measurement units                               | IU/L                            |   |                             |  |
| Biological reference units                      | level of ≥10 IU/L i             | Current national recommendations (as per DOH <u>Green Book</u> ) are that a level of ≥10 IU/L indicates adequate immunity, although a post vaccination level of ≥100 IU/L is desirable. |                             |  |
| Turnaround time                                 | 7 days.                         | 7 days.   |                             |  |
| Availability                                    | Routine hours.                  | Routine hours.  |                             |  |
| Clinical information                            |                                 |   |                             |  |
| Factors known to significant affect the results | Haemolysis.                     |   |                             |  |

#### **Back to index**

Authorised by: T Carey/C Frearson
Date of issue: 12/12/2025

THIS DOCUMENT IS UNCONTROLLED WHEN PRINTED

Page 94 of 187

DCN: MIC-P-006-13.2



## Hepatitis B virus (HBV) surface antigen

For diagnosis of acute or recent hepatitis or carrier state.

If first diagnosis of HBV infection a repeat venous blood sample from patient is required to confirm the result.

| Examinations offered                           |                                 |  |                             |  |
|--|---------------------------------|--|-----------------------------|--|
| Collection container                           | Specimen                        | Sample volume  | Request form                |  |
|  | Venous blood                    | 2 – 6 mls  |                             |  |
| Sample instructions                            |                                 |  |                             |  |
| Collection                                     | No special require              | ments.   |                             |  |
| Specimen transport                             | Specimens should working hours. | be sent to the laboratory w                                      | vithout delay during normal |  |
| Storage requirements                           | Outside of normal               | Outside of normal working hours samples should be refrigerated.  |                             |  |
| Special requirements                           | Clinical details and            | Clinical details and date of onset are essential for processing. |                             |  |
| Laboratory information                         |                                 |  |                             |  |
| Tests  | Detection of Hepa               | Detection of Hepatitis B surface antigen (qualitative).          |                             |  |
| Measurement units                              |                                 |  |                             |  |
| Biological reference units                     |                                 |  |                             |  |
| Turnaround time                                | 7 days.                         |  |                             |  |
| Availability                                   | Routine hours.                  | Routine hours.   |                             |  |
| Clinical information                           |                                 |  |                             |  |
| Factors known to significan affect the results | Haemolysis.                     |  |                             |  |

### **Back to index**

Authorised by: T Carey/C Frearson DCN: MIC-P-006-13.2
Date of issue: 12/12/2025 Page 95 of 187



## Hepatitis B virus (HBV) viral load (PCR)

#### Indications for testing:

- Detection of viraemia in patients with chronic hepatitis B infection.
- Investigation of possible transmission of hepatitis B e.g. following exposure to blood or body fluids of an infected patient.
- Monitoring effectiveness of anti-viral therapy in patients with chronic hepatitis B infection.
- Measurement of hepatitis B viral load in e antigen negative hepatitis B infected health care workers who perform exposure prone procedures (Health Service Circular 2000/020).

| <b>Examinations offered</b>                     |  |  |                             |  |
|---|--|--|-----------------------------|--|
| Collection container                            | Specimen   | Sample volume  | Request form                |  |
|   | EDTA blood   | 2 – 6 mls  |                             |  |
| Sample instructions                             |  |  |                             |  |
| Collection                                      | No special requi   | irements.  |                             |  |
| Specimen transport                              | Specimens shou working hours.                                | lld be sent to the laboratory  | without delay during normal |  |
| Storage requirements                            | Outside of norm  | nal working hours samples sh   | nould be refrigerated.      |  |
| Special requirements                            | Clinical details a   | re essential for processing.   |                             |  |
| Laboratory information                          |  |  |                             |  |
| Tests   | laboratory on To   | This test is processed at an external reference centre. Contact the laboratory on Telephone 01793 604798 if further details are required. The parameters analysed in this test and any reference ranges for these parameters will be displayed on the report when it is returned to the requestor. |                             |  |
| Measurement units                               |  |  |                             |  |
| Biological reference units                      |  |  |                             |  |
| Turnaround time                                 | 14 days.   |  |                             |  |
| Availability                                    | Routine hours.   | Routine hours.   |                             |  |
| Clinical information                            |  |  |                             |  |
| Factors known to significate affect the results | inappropriate ti<br>ntly of organism belo<br>detection of an | detection of an assay sampling variation will result in lower reproducibility.  New and emerging variants may also occur which may not be detected by  |                             |  |

#### **Back to index**

Authorised by: T Carey/C Frearson DCN: MIC-P-006-13.2
Date of issue: 12/12/2025 Page 96 of 187



# **Hepatitis C virus (HCV) antibody**

Marker of infection at some time.

| Examinations offered                           |                                |  |                               |  |
|--|--------------------------------|--|-------------------------------|--|
| Collection container                           | Specimen                       | Sample volume  | Request form                  |  |
|  | Venous blood                   | 2 – 6 mls  |                               |  |
| Sample instructions                            |                                |  |                               |  |
| Collection                                     | No special red                 | uirements.   |                               |  |
| Specimen transport                             | Specimens sho<br>working hours |  | y without delay during normal |  |
| Storage requirements                           | Outside of no                  | rmal working hours samples                                       | should be refrigerated.       |  |
| Special requirements                           | Clinical details               | Clinical details and date of onset are essential for processing. |                               |  |
| Laboratory information                         |                                |  |                               |  |
| Tests  | Detection of H                 | Detection of Hepatitis C antibody (qualitative).                 |                               |  |
| Measurement units                              |                                |  |                               |  |
| Biological reference units                     |                                |  |                               |  |
| Turnaround time                                | 7 days.                        | 7 days.  |                               |  |
| Availability                                   | Routine hours                  | Routine hours.   |                               |  |
| Clinical information                           |                                |  |                               |  |
| Factors known to significan affect the results | tly Haemolysis.                |  |                               |  |

#### **Back to index**

Authorised by: T Carey/C Frearson DCN: MIC-P-006-13.2 Date of issue: 12/12/2025 Page 97 of 187



## Hepatitis C virus (HCV) genotype

Assay used to determine the HCV genotype of patients known to be HCV positive and who are undergoing treatment.

| Examinations offered                            |   |  |                             |  |
|---|---|--|-----------------------------|--|
| Collection container                            | Specimen  | Sample volume  | Request form                |  |
|   | Venous blood  |  |                             |  |
| Sample instructions                             |   |  |                             |  |
| Collection                                      | No special req  | uirements.   |                             |  |
| Specimen transport                              | Specimens sho<br>working hours  | ould be sent to the laboratory<br>i.   | without delay during normal |  |
| Storage requirements                            | Outside of nor  | rmal working hours samples sl  | hould be refrigerated.      |  |
| Special requirements                            | Clinical details  | are essential for processing.  |                             |  |
| Laboratory information                          |   |  |                             |  |
| Tests   | laboratory on parameters ar   | This test is processed at an external reference centre. Contact the laboratory on Telephone 01793 604798 if further details are required. The parameters analysed in this test and any reference ranges for these parameters will be displayed on the report when it is returned to the requestor. |                             |  |
| Measurement units                               |   |  |                             |  |
| Biological reference units                      | 5   |  |                             |  |
| Turnaround time                                 | 14 days.  |  |                             |  |
| Availability                                    | Routine hours   |  |                             |  |
| Clinical information                            |   |  |                             |  |
| Factors known to signific<br>affect the results | False negatives may occur for a variety of reasons, for example inappropriate timing of sample collection, inappropriate sample, presence of organism below the detectable limit of the assay. Towards the limit of detection of an assay sampling variation will result in lower reproducibility New and emerging variants may also occur which may not be detected by this assay. |  |                             |  |

#### **Back to index**

Authorised by: T Carey/C Frearson DCN: MIC-P-006-13.2 Date of issue: 12/12/2025 Page 98 of 187



## Hepatitis C virus (HCV) viral load

Quantitative assay used for monitoring patients known to be HCV positive and who are undergoing treatment.

| Examinations offered                            |  |  |                             |
|---|--|--|-----------------------------|
| Collection container                            | Specimen   | Sample volume                          | Request form                |
|   | EDTA blood   | 2 – 6 mls                              |                             |
| Sample instructions                             |  |  |                             |
| Collection                                      | No special re  | quirements.                            |                             |
| Specimen transport                              | Specimens sh<br>working hour   | nould be sent to the laboratory<br>rs. | without delay during normal |
| Storage requirements                            | Outside of no  | ormal working hours samples s          | hould be refrigerated.      |
| Special requirements                            | Clinical detail  | s are essential for processing.        |                             |
| Laboratory information                          |  |  |                             |
| Tests   | This test is processed at an external reference centre. Contact the laboratory on Telephone 01793 604798 if further details are required. The parameters analysed in this test and any reference ranges for these parameters will be displayed on the report when it is returned to the requestor. |  |                             |
| Measurement units                               |  |  |                             |
| Biological reference units                      |  |  |                             |
| Turnaround time                                 | 14 days.   |  |                             |
| Availability                                    | Routine hour   | S.                                     |                             |
| Clinical information                            |  |  |                             |
| Factors known to significate affect the results |  |  |                             |

### **Back to index**

Authorised by: T Carey/C Frearson DCN: MIC-P-006-13.2
Date of issue: 12/12/2025 Page 99 of 187



# **Hepatitis D (delta) Virus**

| lExaminations offered                          |                              |  |                                    |  |
|--|------------------------------|--|------------------------------------|--|
| Collection container                           | Specimen                     | Sample volume  | Request form                       |  |
|  | Venous blood                 | 2 – 6 mls  |                                    |  |
| Sample instructions                            |                              |  |                                    |  |
| Collection                                     | No special re                | quirements.  |                                    |  |
| Specimen transport                             | Specimens sh<br>working hour |  | ry without delay during normal     |  |
| Storage requirements                           | Outside of no                | ormal working hours samples  | should be refrigerated.            |  |
| Special requirements                           |                              | nly carried out on individuals<br>is are essential for processing  | with active hepatitis B infection. |  |
| Laboratory information                         |                              |  |                                    |  |
| Tests  | laboratory or parameters a   | This test is processed at an external reference centre. Contact the laboratory on Telephone 01793 604798 if further details are required. The parameters analysed in this test and any reference ranges for these parameters will be displayed on the report when it is returned to the requestor. |                                    |  |
| Measurement units                              |                              |  |                                    |  |
| Biological reference units                     |                              |  |                                    |  |
| Turnaround time                                | 14 days.                     | 14 days.   |                                    |  |
| Availability                                   | Routine hour                 | Routine hours.   |                                    |  |
| Clinical information                           |                              |  |                                    |  |
| Factors known to significan affect the results | Haemolysis.                  | Haemolysis.  |                                    |  |

## **Back to index**

Authorised by: T Carey/C Frearson

Date of issue: 12/12/2025

DCN: MIC-P-006-13.2 Page 100 of 187



# **Hepatitis E IgM**

Hepatitis E IgG available at request. For immunocompromised and pregnant patients please consider testing for HEV PCR.

| Examinations offered                           |  |  |                               |  |
|--|--|--|-------------------------------|--|
| Collection container                           | Specimen                               | Sample volume  | Request form                  |  |
|  | Venous blood                           | 2 – 6 mls  |                               |  |
| Sample instructions                            |  |  |                               |  |
| Collection                                     | No special require                     | ements.  |                               |  |
| Specimen transport                             | Specimens should working hours.        | be sent to the laborator   | y without delay during normal |  |
| Storage requirements                           | Outside of norma                       | l working hours samples  | should be refrigerated.       |  |
| Special requirements                           | Clinical details are                   | e essential for processing   |                               |  |
| Laboratory information                         |  |  |                               |  |
| Tests  | laboratory on Tele<br>parameters analy | This test is processed at an external reference centre. Contact the laboratory on Telephone 01793 604798 if further details are required. The parameters analysed in this test and any reference ranges for these parameters will be displayed on the report when it is returned to the requestor. |                               |  |
| Measurement units                              |  |  |                               |  |
| Biological reference units                     |  |  |                               |  |
| Turnaround time                                | 14 days.                               | 14 days.   |                               |  |
| Availability                                   | Routine hours.                         | Routine hours.   |                               |  |
| Clinical information                           |  |  |                               |  |
| Factors known to significan affect the results | Haemolysis.                            | Haemolysis.  |                               |  |

### **Back to index**

Date of issue: 12/12/2025

Authorised by: T Carey/C Frearson

THIS DOCUMENT IS UNCONTROLLED WHEN PRINTED

DCN: MIC-P-006-13.2 Page 101 of 187



## **Hepatitis E virus (HEV) PCR**

Quantitative assay used for monitoring patients known to be HEV positive or for immunocompromised and pregnant patients.

| Examinations offered                             |   |   |                             |  |
|--|---|---|-----------------------------|--|
| Collection container                             | Specimen  | Sample volume   | Request form                |  |
|  | EDTA blood  | 2 – 6 mls   |                             |  |
| Sample instructions                              |   |   |                             |  |
| Collection                                       | No special re   | quirements.   |                             |  |
| Specimen transport                               | Specimens sl<br>working hou   | nould be sent to the laboratory rs.   | without delay during normal |  |
| Storage requirements                             | Outside of no   | ormal working hours samples sl  | hould be refrigerated.      |  |
| Special requirements                             | Clinical detai  | Is are essential for processing.  |                             |  |
| Laboratory information                           |   |   |                             |  |
| Tests  | laboratory of parameters a  | This test is processed at an external reference centre. Contact the laboratory on Telephone 01793 604798 if further details are required. Th parameters analysed in this test and any reference ranges for these parameters will be displayed on the report when it is returned to the requestor. |                             |  |
| Measurement units                                |   |   |                             |  |
| Biological reference units                       |   |   |                             |  |
| Turnaround time                                  | 14 days.  |   |                             |  |
| Availability                                     | Routine hou   | rs.   |                             |  |
| Clinical information                             |   |   |                             |  |
| Factors known to significa<br>affect the results | False negatives may occur for a variety of reasons, for example inappropriate timing of sample collection, inappropriate sample, present of organism below the detectable limit of the assay. Towards the limit of detection of an assay sampling variation will result in lower reproducibility. New and emerging variants may also occur which may not be detected be this assay. |   |                             |  |

### **Back to index**

Authorised by: T Carey/C Frearson DCN: MIC-P-006-13.2
Date of issue: 12/12/2025 Page 102 of 187



## Herpes simplex virus (HSV) antibody

Used to determine past infection. HSV IgG serology is of limited clinical significance in the diagnosis of active infection. Please refer to HSV DNA.

| <b>Examinations offered</b>                    |                                      |  |                               |  |
|--|--------------------------------------|--|-------------------------------|--|
| Collection container                           | Specimen                             | Sample volume  | Request form                  |  |
|  | Venous blood                         | 2 – 6 mls  |                               |  |
| Sample instructions                            |                                      |  |                               |  |
| Collection                                     | No special requir                    | ements.  |                               |  |
| Specimen transport                             | Specimens shoul working hours.       | d be sent to the laborator   | y without delay during normal |  |
| Storage requirements                           | Outside of norma                     | al working hours samples   | should be refrigerated.       |  |
| Special requirements                           | Clinical details ar                  | e essential for processing   |                               |  |
| Laboratory information                         |                                      |  |                               |  |
| Tests  | laboratory on Te<br>parameters analy | This test is processed at an external reference centre. Contact the laboratory on Telephone 01793 604798 if further details are required. The parameters analysed in this test and any reference ranges for these parameters will be displayed on the report when it is returned to the requestor. |                               |  |
| Measurement units                              |                                      |  |                               |  |
| Biological reference units                     |                                      |  |                               |  |
| Turnaround time                                | 14 days.                             | 14 days.   |                               |  |
| Availability                                   | Routine hours.                       | Routine hours.   |                               |  |
| Clinical information                           |                                      |  |                               |  |
| Factors known to significan affect the results | tly<br>Haemolysis.                   | Haemolysis.  |                               |  |

### **Back to index**

DCN: MIC-P-006-13.2 Authorised by: T Carey/C Frearson Date of issue: 12/12/2025

THIS DOCUMENT IS UNCONTROLLED WHEN PRINTED

Page 103 of 187



# Herpes simplex virus (HSV) DNA

| Examinations offered                           |   |  |   |
|--|---|--|---|
| Collection container                           | Specimen  | Sample volume  | Request form  |
| F Artist                                       | Lesion swab (virus<br>transport<br>medium)/effected<br>mucous membranes |  |   |
|  | EDTA  | 2 – 6 mls  |   |
| Sample instructions                            |   |  |   |
| Collection                                     | membranes.  | range Aptima swab of vesion special requirements.                | le fluid or affected mucous   |
| Specimen transport                             | Specimens shoul working hours.  | d be sent to the laboratory                                      | without delay during normal   |
| Storage requirements                           | Outside of norma  | al working hours samples sl                                      | hould be refrigerated.  |
| Special requirements                           |   | e essential for processing.<br>fer to <u>CSF (Cerebro-spinal</u> | fluid) virology PCR.  |
| Laboratory information                         |   |  |   |
| Tests  | HSV PCR from blo<br>the laboratory or<br>The parameters                 | n Telephone 01793 604798   | rnal reference centre. Contact if further details are required. y reference ranges for these  |
| Measurement units                              | Qualitative   |  |   |
| Biological reference units                     |   |  |   |
| Turnaround time                                | Swab: 7 days<br>Blood: 14 days  |  |   |
| Availability                                   | Routine hours.  |  |   |
| Clinical information                           |   |  |   |
| Factors known to significan affect the results | inappropriate tin<br>tly of organism belo<br>detection of an a          | w the detectable limit of the say sampling variation wil         | easons, for example<br>nappropriate sample, presence<br>ne assay. Towards the limit of<br>I result in lower reproducibility<br>which may not be detected by |

### **Back to index**

Authorised by: T Carey/C Frearson DCN: MIC-P-006-13.2
Date of issue: 12/12/2025 Page 104 of 187



# HIV-1 and 2 antigen/antibodies and p24 antigen

For diagnosis of HIV infection.

If first diagnosis of HIV infection a repeat venous blood sample from patient is required to confirm the result.

| Examinations offered                           |                                 |  |                          |  |
|--|---------------------------------|--|--------------------------|--|
| Collection container                           | Specimen                        | Sample volume  | Request form             |  |
|  | Venous blood                    | 2 – 6 mls  |                          |  |
| Sample instructions                            |                                 |  |                          |  |
| Collection                                     | No special requirer             | nents.   |                          |  |
| Specimen transport                             | Specimens should working hours. | pe sent to the laboratory with   | nout delay during normal |  |
| Storage requirements                           | Outside of normal               | working hours samples shoul  | d be refrigerated.       |  |
| Special requirements                           |                                 | Clinical details and date of onset are essential for processing.  All requests for HIV investigations must include the Doctor's signature on the request form. |                          |  |
| Laboratory information                         |                                 |  |                          |  |
| Tests  | Detection of HIV-1              | Detection of HIV-1 and 2 antigen/antibodies plus p24 antigen (qualitative).  |                          |  |
| Measurement units                              |                                 |  |                          |  |
| Biological reference units                     |                                 |  |                          |  |
| Turnaround time                                | 7 days.                         | 7 days.  |                          |  |
| Availability                                   | Routine hours.                  | Routine hours.   |                          |  |
| Clinical information                           |                                 |  |                          |  |
| Factors known to significar affect the results | ntly Haemolysis.                |  |                          |  |

#### **Back to index**

Authorised by: T Carey/C Frearson
Date of issue: 12/12/2025

THIS DOCUMENT IS UNCONTROLLED WHEN PRINTED

DCN: MIC-P-006-13.2 Page 105 of 187



## **HIV** confirmation

HIV confirmation would only be performed on a HIV positive sample.

The test consists of HIV antigen/antibody confirmation, HIV antigen and HIV antibody, and may include a HIV line immunoassay.

| Examinations offered                           |   |  |                               |  |
|--|---|--|-------------------------------|--|
| Collection container                           | Specimen                                    | Sample volume  | Request form                  |  |
|  | Venous blood                                | 2 – 6 mls  |                               |  |
| Sample instructions                            |   |  |                               |  |
| Collection                                     | No special requ                             | uirements.   |                               |  |
| Specimen transport                             | Specimens sho<br>working hours              | •  | y without delay during normal |  |
| Storage requirements                           | Outside of nor                              | mal working hours samples s  | should be refrigerated.       |  |
| Special requirements                           | Clinical details                            | are essential for processing.  |                               |  |
| Laboratory information                         |   |  |                               |  |
| Tests  | laboratory on <sup>-</sup><br>parameters an | This test is processed at an external reference centre. Contact the laboratory on Telephone 01793 604798 if further details are required. The parameters analysed in this test and any reference ranges for these parameters will be displayed on the report when it is returned to the requestor. |                               |  |
| Measurement units                              |   |  |                               |  |
| Biological reference units                     |   |  |                               |  |
| Turnaround time                                | 14 days.                                    | 14 days.   |                               |  |
| Availability                                   | Routine hours.                              | Routine hours.   |                               |  |
| Clinical information                           |   |  |                               |  |
| Factors known to significan affect the results | tly<br>Haemolysis.                          |  |                               |  |

### **Back to index**

Authorised by: T Carey/C Frearson

Date of issue: 12/12/2025

DCN: MIC-P-006-13.2 Page 106 of 187



## HIV resistance, integrase, tropism

HIV resistance markers would only be performed on a HIV positive sample. This test is exclusively only available to the Great Western Hospital Sexual Health department.

| Examinations offered                              |   |   |                             |  |
|---|---|---|-----------------------------|--|
| Collection container                              | Specimen  | Sample volume   | Request form                |  |
|   | EDTA blood  | 2 – 6 mls   |                             |  |
| Sample instructions                               |   |   |                             |  |
| Collection  | No special re                                     | equirements.  |                             |  |
| Specimen transport                                | Specimens sl<br>working hou                       | hould be sent to the laboratory rs.   | without delay during normal |  |
| Storage requirements                              | Outside of no                                     | ormal working hours samples sl  | hould be refrigerated.      |  |
| Special requirements                              | Clinical detai                                    | Is are essential for processing.  |                             |  |
| Laboratory information                            |   |   |                             |  |
| Tests   | laboratory of parameters a                        | This test is processed at an external reference centre. Contact the laboratory on Telephone 01793 604798 if further details are required. The parameters analysed in this test and any reference ranges for these parameters will be displayed on the report when it is returned to the requestor.  |                             |  |
| Measurement units                                 |   |   |                             |  |
| Biological reference units                        |   |   |                             |  |
| Turnaround time                                   | 14 days.  |   |                             |  |
| Availability                                      | Routine hou                                       | rs.   |                             |  |
| Clinical information                              |   |   |                             |  |
| Factors known to signification affect the results | inappropriat<br>antly of organism<br>detection of | False negatives may occur for a variety of reasons, for example inappropriate timing of sample collection, inappropriate sample, present of organism below the detectable limit of the assay. Towards the limit of detection of an assay sampling variation will result in lower reproducibilit New and emerging variants may also occur which may not be detected by this assay. |                             |  |

### **Back to index**

Authorised by: T Carey/C Frearson
Date of issue: 12/12/2025

THIS DOCUMENT IS UNCONTROLLED WHEN PRINTED

DCN: MIC-P-006-13.2 Page 107 of 187



# **HIV – Maternal Transmission (neonates)**

| Examinations offered                            |                               |  |  |  |
|---|-------------------------------|--|--|--|
| Collection container                            | Specimen                      | Sample volume  | Request form   |  |
|   | EDTA blood 2 – 6 mls          |  |  |  |
| Sample instructions                             |                               |  |  |  |
| Collection                                      | No special red                | quirements.  |  |  |
| Specimen transport                              | Specimens sh<br>working hour  | ould be sent to the laboratory s.  | without delay during normal                                  |  |
| Storage requirements                            | Outside of no                 | ormal working hours samples s  | hould be refrigerated.                                       |  |
| Special requirements                            | _                             | naternal EDTA at birth<br>EDTA samples at birth, 3, 6 an   | d 9 months of age.   |  |
| Laboratory information                          |                               |  |  |  |
| Tests   | laboratory on<br>parameters a | ocessed at an external referen<br>Telephone 01793 604798 if funalysed in this test and any refull be displayed on the report | orther details are required. The<br>ference ranges for these |  |
| Measurement units                               |                               |  |  |  |
| Biological reference units                      |                               |  |  |  |
| Turnaround time                                 | 14 days.                      |  |  |  |
| Availability                                    | Routine hour                  | S.   |  |  |
| Clinical information                            |                               |  |  |  |
| Factors known to significant affect the results | ily                           |  |  |  |

### **Back to index**

Authorised by: T Carey/C Frearson

Date of issue: 12/12/2025

DCN: MIC-P-006-13.2 Page 108 of 187



#### **HIV** viral load

Quantitative assay used for monitoring patients known to be HIV positive. Please liaise with the Sexual Health Department if testing is required.

| Examinations offered                          |   |  |                                |  |  |  |
|---|---|--|--------------------------------|--|--|--|
| Collection container                          | Specimen                                      | Sample volume  | Request form                   |  |  |  |
|   | EDTA blood                                    | 2 – 6 mls  |                                |  |  |  |
| Sample instructions                           |   |  |                                |  |  |  |
| Collection                                    | No special re                                 | quirements.  |                                |  |  |  |
| Specimen transport                            | Specimens sh<br>working hou                   |  | ry without delay during normal |  |  |  |
| Storage requirements                          | Outside of no                                 | ormal working hours samples  | should be refrigerated.        |  |  |  |
| Special requirements                          | Clinical detai                                | ls are essential for processing  | ;.                             |  |  |  |
| Laboratory information                        |   |  |                                |  |  |  |
| Tests   | Detection of                                  | Detection of HIV viral copies (Quantitative)   |                                |  |  |  |
| Measurement units                             | Copies / ml                                   | Copies / ml  |                                |  |  |  |
| Biological reference units                    |   |  |                                |  |  |  |
| Turnaround time                               | 48 hours                                      |  |                                |  |  |  |
| Availability                                  | Routine hour                                  | rs.  |                                |  |  |  |
| Clinical information                          |   |  |                                |  |  |  |
| Factors known to significa affect the results | inappropriate ntly of organism l detection of | False negatives may occur for a variety of reasons, for example inappropriate timing of sample collection, inappropriate sample, presence of organism below the detectable limit of the assay. Towards the limit of detection of an assay sampling variation will result in lower reproducibility. New and emerging variants may also occur which may not be detected by this assay. |                                |  |  |  |

#### **Back to index**

Authorised by: T Carey/C Frearson DCN: MIC-P-006-13.2
Date of issue: 12/12/2025 Page 109 of 187



# Human herpes virus 6 (HHV) PCR

For diagnosis of HHV infection.

| Examinations offered                           |  |                               |                             |
|--|--|-------------------------------|-----------------------------|
| Collection container                           | Specimen   | Sample volume                 | Request form                |
|  | EDTA blood   | 2 – 6 mls                     |                             |
| Sample instructions                            |  |                               |                             |
| Collection                                     | No special requ  | uirements.                    |                             |
| Specimen transport                             | Specimens sho<br>working hours.  |                               | without delay during normal |
| Storage requirements                           | Outside of nor   | mal working hours samples sl  | hould be refrigerated.      |
| Special requirements                           | Clinical details   | are essential for processing. |                             |
| Laboratory information                         |  |                               |                             |
| Tests  | This test is processed at an external reference centre. Contact the laboratory on Telephone 01793 604798 if further details are required. The parameters analysed in this test and any reference ranges for these parameters will be displayed on the report when it is returned to the requestor.   |                               |                             |
| Measurement units                              |  |                               |                             |
| Biological reference units                     |  |                               |                             |
| Turnaround time                                | 14 days.   |                               |                             |
| Availability                                   | Routine hours.   |                               |                             |
| Clinical information                           |  |                               |                             |
| Factors known to significar affect the results | False negatives may occur for a variety of reasons, for example inappropriate timing of sample collection, inappropriate sample, presence of organism below the detectable limit of the assay. Towards the limit of detection of an assay sampling variation will result in lower reproducibility. New and emerging variants may also occur which may not be detected by this assay. |                               |                             |

#### **Back to index**

Authorised by: T Carey/C Frearson

Date of issue: 12/12/2025

Page 110 of 187

DCN: MIC-P-006-13.2



# Human T lymphotrophic virus (HTLV) 1 and 2 serology

Used to determine past or current infection.

| Examinations offered                           |   |  |                         |  |
|--|---|--|-------------------------|--|
| Collection container                           | Specimen                                | Sample volume  | Request form            |  |
|  | Venous blood                            | 2 – 6 mls  | 1                       |  |
| Sample instructions                            |   |  |                         |  |
| Collection                                     | No special require                      | ments.   |                         |  |
| Specimen transport                             | Specimens should working hours.         | Specimens should be sent to the laboratory without delay during normal working hours.  |                         |  |
| Storage requirements                           | Outside of normal                       | working hours samples  | should be refrigerated. |  |
| Special requirements                           | Clinical details are                    | Clinical details are essential for processing.   |                         |  |
| Laboratory information                         |   |  |                         |  |
| Tests  | laboratory on Tele<br>parameters analys | This test is processed at an external reference centre. Contact the laboratory on Telephone 01793 604798 if further details are required. The parameters analysed in this test and any reference ranges for these parameters will be displayed on the report when it is returned to the requestor. |                         |  |
| Measurement units                              |   |  |                         |  |
| Biological reference units                     |   |  |                         |  |
| Turnaround time                                | 14 days.                                | 14 days.   |                         |  |
| Availability                                   | Routine hours.                          | Routine hours.   |                         |  |
| Clinical information                           |   |  |                         |  |
| Factors known to significan affect the results | tly Haemolysis.                         | Haemolysis.  |                         |  |

#### **Back to index**

Authorised by: T Carey/C Frearson

Date of issue: 12/12/2025

THIS DOCUMENT IS UNCONTROLLED WHEN PRINTED

DCN: MIC-P-006-13.2 Page 111 of 187



# **Hydatid** serology

Used to determine past or current infection.

| Examinations offered                           |                               |  |              |  |  |
|--|-------------------------------|--|--------------|--|--|
| Collection container                           | Specimen                      | Sample volume  | Request form |  |  |
|  | Venous blood                  | 2 – 6 mls  |              |  |  |
| Sample instructions                            |                               |  |              |  |  |
| Collection                                     | No special requi              | rements.   |              |  |  |
| Specimen transport                             | Specimens shou working hours. | Specimens should be sent to the laboratory without delay during normal working hours.  |              |  |  |
| Storage requirements                           | Outside of norm               | Outside of normal working hours samples should be refrigerated.  |              |  |  |
| Special requirements                           | Clinical details a            | Clinical details are essential for processing.   |              |  |  |
| Laboratory information                         |                               |  |              |  |  |
| Tests  | laboratory on Te              | This test is processed at an external reference centre. Contact the laboratory on Telephone 01793 604798 if further details are required. The parameters analysed in this test and any reference ranges for these parameters will be displayed on the report when it is returned to the requestor. |              |  |  |
| Measurement units                              |                               |  |              |  |  |
| Biological reference units                     |                               |  |              |  |  |
| Turnaround time                                | 14 days.                      | 14 days.   |              |  |  |
| Availability                                   | Routine hours.                | Routine hours.   |              |  |  |
| Clinical information                           |                               |  |              |  |  |
| Factors known to significan affect the results | tly<br>Haemolysis.            | Haemolysis.  |              |  |  |

#### **Back to index**

Authorised by: T Carey/C Frearson
Date of issue: 12/12/2025

THIS DOCUMENT IS UNCONTROLLED WHEN PRINTED

DCN: MIC-P-006-13.2 Page 112 of 187



# Influenza A/B rapid PCR

Diagnosis of acute disease.

| Examinations offered                           |   |                           |  |  |
|--|---|---------------------------|--|--|
| Collection container                           | Specimen  | Sample volume             | Request form   |  |
| 0.0  | Virus swab in transport<br>media  | Throat swab               | The second secon |  |
| Sample instructions                            |   |                           |  |  |
| Collection                                     | No special require  | ments.                    |  |  |
| Specimen transport                             | Specimens should working hours.   | be sent to the laboratory | without delay during normal  |  |
| Storage requirements                           | Outside of normal   | working hours samples s   | hould be refrigerated.   |  |
| Special requirements                           | Routine flu screening is currently not available. Only the following patient groups will be tested:  - Critical Care patients - Paediatric patients - Oncology/Haematology patients  Any other requests must be assessed by Infection Control or a Microbiology Consultant.  Clinical details are essential for processing. |                           |  |  |
| Laboratory information                         |   |                           |  |  |
| Tests  | Influenza A/B rapid   | d PCR test                |  |  |
| Measurement units                              |   |                           |  |  |
| Biological reference units                     |   |                           |  |  |
| Turnaround time                                | 2 hours   |                           |  |  |
| Availability                                   | Routine hours.  |                           |  |  |
| Clinical information                           |   |                           |  |  |
| Factors known to significan affect the results | ntly  |                           |  |  |

#### **Back to index**

Authorised by: T Carey/C Frearson DCN: MIC-P-006-13.2 Date of issue: 12/12/2025

THIS DOCUMENT IS UNCONTROLLED WHEN PRINTED

Page 113 of 187



#### **JC virus PCR**

Diagnosis of acute disease.

| Examinations offered                           |  |   |  |  |  |
|--|--|---|--|--|--|
| Collection container                           | Specimen   | Sample volume   | Request form   |  |  |
|  | EDTA blood   | 2 – 6 mls   | ### Company of the Co |  |  |
| - 18 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1       | Urine  | Minimum volume 5ml  | The state of the   |  |  |
| - 15 1 · · · · · · · · · · · · · · · · ·       | CSF  | Minimum volume 0.5ml  |  |  |  |
| Sample instructions                            |  |   |  |  |  |
| Collection                                     | <b>Urine</b><br>Refer to <u>Urine</u>  | icroscopy and culture.  (microscopy and culture).   |  |  |  |
| Specimen transport                             |  | Specimens should be sent to the laboratory without delay during normal working hours.   |  |  |  |
| Storage requirements                           | Outside of normal working hours samples should be refrigerated.  |   |  |  |  |
| Special requirements                           | Clinical details are essential for processing.   |   |  |  |  |
| Laboratory information                         |  |   |  |  |  |
| Tests  | This test is processed at an external reference centre. Contact the laboratory on Telephone 01793 604798 if further details are require parameters analysed in this test and any reference ranges for these parameters will be displayed on the report when it is returned to the requestor. |   |  |  |  |
| Measurement units                              |  |   |  |  |  |
| Biological reference units                     |  |   |  |  |  |
| Turnaround time                                | 14 days.   |   |  |  |  |
| Availability                                   | Routine hours  |   |  |  |  |
| Clinical information                           |  |   |  |  |  |
| Factors known to significal affect the results | inappropriate<br>ntly of organism be<br>detection of ar  | ns, for example<br>propriate sample, presence<br>ssay. Towards the limit of<br>sult in lower reproducibility<br>ch may not be detected by |  |  |  |

**Back to index** 

Authorised by: T Carey/C Frearson DCN: MIC-P-006-13.2 Date of issue: 12/12/2025

THIS DOCUMENT IS UNCONTROLLED WHEN PRINTED

Page 114 of 187



# Legionella urinary antigen

Diagnosis of acute disease.

| Examinations offered                           |  |  |                                   |  |
|--|--|--|-----------------------------------|--|
| Collection container                           | Specimen   | Sample volume  | Request form                      |  |
|  | Urine  | Minimum volume 1ml   |                                   |  |
| Sample instructions                            |  |  |                                   |  |
| Collection                                     | If less than !<br>white toppe  | of 5ml is required. 5ml of urine is anticipated, or collected universal container. nes (Microscopy and Culture). | ing from a child, collect in to a |  |
| Specimen transport                             | Specimens s<br>working hou   | should be sent to the laboratory with<br>urs.  | nout delay during normal          |  |
| Storage requirements                           |  | normal working hours samples shoul<br>ver 48 hours are undesirable.  | d be refrigerated.                |  |
| Special requirements                           | Clinical details are essential for processing.  The British Thoracic Society do not recommend testing unless moderate to high severity pneumonia in hospitalised patients.  Will be tested only if clinical details indicate severe pneumonia on request form or where epidemiologically indicated (e.g. atypical features or associated with known <i>Legionella</i> outbreak). |  |                                   |  |
| Laboratory information                         |  |  |                                   |  |
| Tests  | Detection of Legionella pneumophila antigen (qualitative).  Detects Legionella pneumophila serotype 01 only.   |  |                                   |  |
| Measurement units                              | Antigen detected or not detected.  |  |                                   |  |
| Biological reference units                     |  |  |                                   |  |
| Turnaround time                                | 1 day.   |  |                                   |  |
| Availability                                   | Routine hours.   |  |                                   |  |
| Clinical information                           |  |  |                                   |  |
| Factors known to significan affect the results | tly  |  |                                   |  |

#### **Back to index**

Authorised by: T Carey/C Frearson DCN: MIC-P-006-13.2
Date of issue: 12/12/2025 Page 115 of 187



# **Leptospira serology**

Used to determine past or current infection.

| <b>Examinations offered</b>                    |                                  |  |                               |  |
|--|----------------------------------|--|-------------------------------|--|
| Collection container                           | Specimen                         | Sample volume  | Request form                  |  |
|  | Venous blood                     | 2 – 6 mls  |                               |  |
| Sample instructions                            |                                  |  |                               |  |
| Collection                                     | No special requi                 | irements.  |                               |  |
| Specimen transport                             | Specimens shou working hours.    | ld be sent to the laborator  | y without delay during normal |  |
| Storage requirements                           | Outside of norm                  | nal working hours samples  | should be refrigerated.       |  |
| Special requirements                           | State date of on for processing. | State date of onset, nature of symptoms and exposure history are essential for processing.   |                               |  |
| Laboratory information                         |                                  |  |                               |  |
| Tests  | laboratory on Te                 | This test is processed at an external reference centre. Contact the laboratory on Telephone 01793 604798 if further details are required. The parameters analysed in this test and any reference ranges for these parameters will be displayed on the report when it is returned to the requestor. |                               |  |
| Measurement units                              |                                  |  |                               |  |
| Biological reference units                     |                                  |  |                               |  |
| Turnaround time                                | 14 days.                         | 14 days.   |                               |  |
| Availability                                   | Routine hours.                   | Routine hours.   |                               |  |
| Clinical information                           |                                  |  |                               |  |
| Factors known to significan affect the results | Antibody detect<br>Haemolysis.   | ion earliest at 7 days post  | onset of symptomatic disease. |  |

#### **Back to index**

Authorised by: T Carey/C Frearson DCN: MIC-P-006-13.2
Date of issue: 12/12/2025 Page 116 of 187

THIS DOCUMENT IS UNCONTROLLED WHEN PRINTED



### **Measles (diagnostic)**

To determine recent/acute disease. For patients who present later into the rash phase of illness.

Diagnosis of measles can usually be made clinically. Characteristic 3-5 days prodromal illness of fever, coryzal symptoms, cough and conjunctivitis. Maculo-papular rash then develops starting behind the ears and spreading down to trunk and arms. Viral shedding from upper respiratory tract is highest from 4 days before to 4 days post onset of rash.

| Examinations offered                           |   |  |                             |  |
|--|---|--|-----------------------------|--|
| Collection container                           | Specimen                                | Sample volume  | Request form                |  |
|  | Venous blood                            | 2 – 6 mls  |                             |  |
| O B  | Green viral swab                        | 1mL  |                             |  |
| Sample instructions                            |   |  |                             |  |
| Collection                                     | Send a viral (gree                      | n top) swab from throat fo   | r PCR.                      |  |
| Specimen transport                             | Specimens should working hours.         | be sent to the laboratory  | without delay during normal |  |
| Storage requirements                           | Outside of norma                        | working hours samples sl   | nould be refrigerated.      |  |
| Special requirements                           | Clinical details and                    | Clinical details and date of onset are essential for processing.   |                             |  |
| Laboratory information                         |   |  |                             |  |
| Tests  | laboratory on Tele<br>parameters analys | This test is processed at an external reference centre. Contact the laboratory on Telephone 01793 604798 if further details are required. The parameters analysed in this test and any reference ranges for these parameters will be displayed on the report when it is returned to the requestor. |                             |  |
| Measurement units                              |   |  |                             |  |
| Biological reference units                     |   |  |                             |  |
| Turnaround time                                | 14 days.                                |  |                             |  |
| Availability                                   | Routine hours.                          |  |                             |  |
| Clinical information                           |   |  |                             |  |
| Factors known to significan affect the results | tly<br>Haemolysis.                      |  |                             |  |

#### **Back to index**

Authorised by: T Carey/C Frearson DCN: MIC-P-006-13.2 Date of issue: 12/12/2025 Page 117 of 187



# Measles IgG (immunity)

To determine serological evidence of past infection/vaccination where history is uncertain.

| Examinations offered                           |                                 |  |                             |  |  |
|--|---------------------------------|--|-----------------------------|--|--|
| Collection container                           | Specimen                        | Sample volume  | Request form                |  |  |
|  | Venous blood                    | 2 – 6 mls  |                             |  |  |
| Sample instructions                            |                                 |  |                             |  |  |
| Collection                                     | No special require              | ments.   |                             |  |  |
| Specimen transport                             | Specimens should working hours. | be sent to the laboratory w  | rithout delay during normal |  |  |
| Storage requirements                           | Outside of normal               | working hours samples sho  | ould be refrigerated.       |  |  |
| Special requirements                           | No special require              | No special requirements.   |                             |  |  |
| Laboratory information                         |                                 |  |                             |  |  |
| Tests  | Detection of Meas               | les IgG antibody (semi-qua   | ntitative).                 |  |  |
| Measurement units                              | AU/mL                           |  |                             |  |  |
| Biological reference units                     | -                               | <13.5 – Susceptible 13.5-16.5 – Equivocal, treat as susceptible >16.5 – Immune |                             |  |  |
| Turnaround time                                | 7 days.                         | 7 days.  |                             |  |  |
| Availability                                   | Routine hours.                  | Routine hours.   |                             |  |  |
| Clinical information                           |                                 |  |                             |  |  |
| Factors known to significan affect the results | Haemolysis.                     |  |                             |  |  |

#### **Back to index**

Authorised by: T Carey/C Frearson

Date of issue: 12/12/2025

DCN: MIC-P-006-13.2 Page 118 of 187



# **Meningococcal antibody**

Neisseria meningitidis functional antibody to serogroups A, C, W, Y and B.

| Examinations offered                           |  |  |                       |  |  |
|--|--|--|-----------------------|--|--|
| Collection container                           | Specimen                                 | Sample volume  | Request form          |  |  |
|  | Venous blood                             | 2 – 6 mls  |                       |  |  |
| Sample instructions                            |  |  |                       |  |  |
| Collection                                     | No special requirer                      | nents.   |                       |  |  |
| Specimen transport                             | Specimens should working hours.          | Specimens should be sent to the laboratory without delay during normal working hours.  |                       |  |  |
| Storage requirements                           | Outside of normal                        | working hours samples sho  | ould be refrigerated. |  |  |
| Special requirements                           | Clinical details are                     | essential for processing.  |                       |  |  |
| Laboratory information                         |  |  |                       |  |  |
| Tests  | laboratory on Tele<br>parameters analyse | This test is processed at an external reference centre. Contact the laboratory on Telephone 01793 604798 if further details are required. The parameters analysed in this test and any reference ranges for these parameters will be displayed on the report when it is returned to the requestor. |                       |  |  |
| Measurement units                              |  |  |                       |  |  |
| Biological reference units                     |  |  |                       |  |  |
| Turnaround time                                | 4 weeks.                                 | 4 weeks.   |                       |  |  |
| Availability                                   | Routine hours.                           | Routine hours.   |                       |  |  |
| Clinical information                           |  |  |                       |  |  |
| Factors known to significan affect the results | tly<br>Haemolysis.                       | Haemolysis.  |                       |  |  |

#### **Back to index**

Authorised by: T Carey/C Frearson

Date of issue: 12/12/2025

DCN: MIC-P-006-13.2 Page 119 of 187



# **Meningococcal PCR**

Meningococcal DNA detection by PCR.

| Examinations offered                           |   |  |  |  |  |
|--|---|--|--|--|--|
| Collection container                           | Specimen  | Sample volume  | Request form   |  |  |
|  | EDTA blood  | 2 – 6 mls  | The state of the |  |  |
|  | CSF   | Minimum volume 0.5ml   |  |  |  |
| Sample instructions                            |   |  |  |  |  |
| Collection                                     | <b>Cerebrospinal fluid</b><br>Refer to <u>CSF micro</u> | scopy and culture.   |  |  |  |
| Specimen transport                             | Specimens should working hours.                         | be sent to the laboratory with   | nout delay during normal   |  |  |
| Storage requirements                           | Outside of normal                                       | working hours samples shoul  | d be refrigerated.   |  |  |
| Special requirements                           | blood sample.   | Where a CSF sample is available, this should be sent in addition to an EDTA blood sample. Clinical details are essential for processing.   |  |  |  |
| Laboratory information                         |   |  |  |  |  |
| Tests  | laboratory on Tele<br>parameters analys                 | This test is processed at an external reference centre. Contact the laboratory on Telephone 01793 604798 if further details are required. The parameters analysed in this test and any reference ranges for these parameters will be displayed on the report when it is returned to the requestor. |  |  |  |
| Measurement units                              |   |  |  |  |  |
| Biological reference units                     |   |  |  |  |  |
| Turnaround time                                | 14 days.  | 14 days.   |  |  |  |
| Availability                                   | Routine hours.  | Routine hours.   |  |  |  |
| Clinical information                           |   |  |  |  |  |
| Factors known to significar affect the results | ntly starting antibiotics after commencem               | The likelihood of a positive result decreases as the interval of sampling after starting antibiotics lengthens. Samples for PCR taken more than 48 hours after commencement of antibiotic therapy are unlikely to give useful results. CSF may remain "positive" for longer periods.               |  |  |  |

#### **Back to index**

Authorised by: T Carey/C Frearson DCN: MIC-P-006-13.2 Date of issue: 12/12/2025 Page 120 of 187



### **Mouth swab**

| Examinations offered                            |  |   |  |
|---|--|---|--|
| Collection container                            | Specimen   | Sample volume                                       | Request form   |
| Q1D Countries Not * (S) (2)                     | Mouth swab (Amies transport swab)  |   | The second sec |
| Sample instructions                             |  |   |  |
| Collection                                      | Optimally collected before antimicrobial therapy started.  To assure that the preconditions of the sampling for oral infections are comparable it is advised that patients should not:  Eat or drink within 2 hours  Brush their teeth within 2 hours  Use any mouth rinse of disinfectant within 2 hours prior to sampling Sample pus if present otherwise sample any lesions or inflamed areas.  A tongue depressor or spatula may be helpful to aid vision and avoid contamination from other parts of the mouth. |   |  |
| Specimen transport                              | Specimens should be sent to the laboratory without delay during normal working hours.  |   |  |
| Storage requirements                            |  | working hours samples sho<br>nours are undesirable. | ould be refrigerated.  |
| Special requirements                            | No special require   | ments.  |  |
| Laboratory information                          |  |   |  |
| Tests   | General isolation and characterisation of aerobic, microaerophilic and anaerobic micro-organisms (qualitative).  |   |  |
| Measurement units                               | Growth detected of   | or not detected.                                    |  |
| Biological reference units                      |  |   |  |
| Turnaround time                                 | 4 days.  |   |  |
| Availability                                    | Routine hours.   |   |  |
| Clinical information                            |  |   |  |
| Factors known to significant affect the results | Delays in transpor   | tation may affect the recov                         | ery of pathogens.  |

#### **Back to index**

Authorised by: T Carey/C Frearson
Date of issue: 12/12/2025

THIS DOCUMENT IS UNCONTROLLED WHEN PRINTED

DCN: MIC-P-006-13.2 Page 121 of 187



#### **MPox**

Requests should be discussed initially with the Microbiology Consultant, and if considered high risk of the Imported Fever Service at the Rare and Imported Pathogens Laboratory should be contacted to ensure testing is expedited.

| <b>Examinations offered</b>                    |  |  |  |
|--|--|--|--|
| Collection container                           | Specimen   | Sample volume  | Request form   |
| Vo a   | Vesicle swab<br>Throat swab  | 1mL  |  |
| Sample instructions                            |  |  |  |
| Collection                                     | guidelines on t  | Specimens should be collected and handled following the recommended guidelines on the collection packs.  |  |
| Specimen transport                             | Specimens sho<br>working hours   |  | without delay during normal  |
| Storage requirements                           | Outside of nor   | mal working hours samples s  | hould be refrigerated.   |
| Special requirements                           | Urine – patient collection.  | t should not have urinated fo  | r 2 hours prior to sample  |
| Laboratory information                         |  |  |  |
| Tests  | laboratory on parameters an  | This test is processed at an external reference centre. Contact the laboratory on Telephone 01793 604798 if further details are required. The parameters analysed in this test and any reference ranges for these parameters will be displayed on the report when it is returned to the requestor. |  |
| Measurement units                              | Presence dete  | cted or not detected.  |  |
| Biological reference units                     |  |  |  |
| Turnaround time                                | 14 days.   | 14 days.   |  |
| Availability                                   | Routine hours.   | Routine hours.   |  |
| Clinical information                           |  |  |  |
| Factors known to significan affect the results | inappropriate of organism be detection of an New and emer this assay.  Please note the continue with | elow the detectable limit of the assay sampling variation will ging variants may also occur at even if the throat swab is monitoring and isolation as im, and should be reassessed   | nappropriate sample, presence ne assay. Towards the limit of I result in lower reproducibility. which may not be detected by negative, the individual must astructed by their local health |

#### **Back to index**

Authorised by: T Carey/C Frearson DCN: MIC-P-006-13.2
Date of issue: 12/12/2025 Page 122 of 187



#### **MRSA**

Most MRSA infections are healthcare-associated, but an increasing number of infections are community-acquired, with patients having no established risk factors for acquisition of MRSA.

| Examinations offered                            |   |  |  |
|---|---|--|--|
| Collection container                            | Specimen  | Sample volume  | Request form   |
| QBCcancine there  Q Q   a                       | Nose swab, groin swab, perineum swab, manipulated wound site swabs (Amies transport |  | Admission screen:  |
| 60  | swab)<br>Urine  | Recommended optimal volume of 1 -5mL.  | Discharge screen:  |
| Sample instructions                             |   |  | al Management (amountaine)                                   |
| Collection                                      | MRSA screen swabs wounds, skin lesions rejected.                                    | or invasive devices. Specim<br>m needs to be sent per pation<br>MRSA Policy. | se, groin/perineum and other<br>ens from other sites will be |
| Specimen transport                              |   | e sent to the laboratory with  | out delay during normal                                      |
| Storage requirements                            |   | orking hours samples should urs are undesirable.                             | be refrigerated.   |
| Special requirements                            | No special requireme  | ents.  |  |
| Laboratory information                          |   |  |  |
| Tests   | General isolation and   | d characterisation of MRSA (   | qualitative).  |
| Measurement units                               | Growth detected or  | not detected.  |  |
| Biological reference units                      |   |  |  |
| Turnaround time                                 | Negative results 24 h<br>Positive results 3 day                                     |  |  |
| Availability                                    | Routine hours.  |  |  |
| Clinical information                            |   |  |  |
| Factors known to significant affect the results | Delays in transporta  | tion may affect the recovery   | of pathogens.  |
| Back to index                                   |   |  |  |

Authorised by: T Carey/C Frearson

DCN: MIC-P-006-13.2

Date of issue: 12/12/2025

Page 123 of 187



# **Mumps (diagnostic)**

Used to determine disease progression in individuals infected with mumps.

| Examinations offered                            |                               |  |              |  |
|---|-------------------------------|--|--------------|--|
| Collection container                            | Specimen                      | Sample volume  | Request form |  |
|   | Venous blood                  | 2 – 6 mls  |              |  |
| lo d  | Green viral swab              | 1mL  |              |  |
| Sample instructions                             |                               |  |              |  |
| Collection                                      | Send a viral (gre             | en top) swab from throat fo  | r PCR.       |  |
| Specimen transport                              | Specimens shou working hours. | Specimens should be sent to the laboratory without delay during normal working hours.  |              |  |
| Storage requirements                            | Outside of norm               | Outside of normal working hours samples should be refrigerated.  |              |  |
| Special requirements                            | Clinical details a            | Clinical details and date of onset are essential for processing.   |              |  |
| Laboratory information                          |                               |  |              |  |
| Tests   | laboratory on Te              | This test is processed at an external reference centre. Contact the laboratory on Telephone 01793 604798 if further details are required. The parameters analysed in this test and any reference ranges for these parameters will be displayed on the report when it is returned to the requestor. |              |  |
| Measurement units                               |                               |  |              |  |
| Biological reference units                      |                               |  |              |  |
| Turnaround time                                 | 14 days.                      | 14 days.   |              |  |
| Availability                                    | Routine hours.                | Routine hours.   |              |  |
| Clinical information                            |                               |  |              |  |
| Factors known to significate affect the results | ntly<br>Haemolysis.           | Haemolysis.  |              |  |

#### **Back to index**

Authorised by: T Carey/C Frearson
Date of issue: 12/12/2025

THIS DOCUMENT IS UNCONTROLLED WHEN PRINTED

DCN: MIC-P-006-13.2 Page 124 of 187



# Mumps IgG (immunity)

Used to determine immune status to mumps.

| Examinations offered                           |  |   |                             |  |
|--|--|---|-----------------------------|--|
| Collection container                           | Specimen   | Sample volume   | Request form                |  |
|  | Venous blood   | 2 – 6 mls   |                             |  |
| Sample instructions                            |  |   |                             |  |
| Collection                                     | No special require   | ments.  |                             |  |
| Specimen transport                             | Specimens should working hours.                            | be sent to the laboratory                                       | without delay during normal |  |
| Storage requirements                           | Outside of normal  | Outside of normal working hours samples should be refrigerated. |                             |  |
| Special requirements                           | No special requirements.                                   |   |                             |  |
| Laboratory information                         |  |   |                             |  |
| Tests  | Detection of Mum   | Detection of Mumps IgG antibody (semi-quantitative).            |                             |  |
| Measurement units                              | AU/mL  | AU/mL   |                             |  |
| Biological reference units                     | <9.0 – Susceptible<br>9.0-11.0 – Equivoc<br>>11.0 – Immune | 9.0-11.0 – Equivocal, treat as susceptible                      |                             |  |
| Turnaround time                                | 7 days.  | 7 days.   |                             |  |
| Availability                                   | Routine hours.   | Routine hours.  |                             |  |
| Clinical information                           |  |   |                             |  |
| Factors known to significan affect the results | Haemolysis.  | Haemolysis.   |                             |  |

#### **Back to index**

Authorised by: T Carey/C Frearson
Date of issue: 12/12/2025

THIS DOCUMENT IS UNCONTROLLED WHEN PRINTED

DCN: MIC-P-006-13.2 Page 125 of 187

#### Mycobacteria

| Examinations offered |  |  |  |
|----------------------|--|--|--|
| Collection container | Specimen   | Sample volume  | Request form   |
|                      | Sputum, gastric washing, sterile site body fluids (CSF, pleural fluids etc), skin or tissue biopsies, bone marrow, bronchoalveolar washings, bone and bone marrow, lymph node and tissue samples | 1mL of Sputum<br>5mL of BAL<br>6mL of CSF                      |  |
|                      | Urine  | Early morning urine on three consecutive days, 250ml container |  |
|                      | Heparin blood  | 2 – 6 mls  | The second secon |
| Sample instructions  |  |  |  |

Optimally collected before antimicrobial therapy started.

#### **Sputum specimens**

Sputum specimens should be relatively fresh (less than 1 day old) to minimise contamination. Purulent specimens are best. Three samples of ≥5mL should be collected approximately 8-24 hours apart with at least one from early morning.

Samples taken early morning (ie shortly after patient waking) have the greatest yield. When the cough is dry, physiotherapy, postural drainage or inhalation of nebulised saline ('sputum induction') before expectoration may be helpful.

#### Bronchoalveolar lavage/bronchial washings

These may be sent if spontaneous or induced sputum is unavailable or if such specimens are AFB smear negative. Note: Contamination of the bronchoscope with tap water, which may contain environmental *Mycobacterium* species, should be avoided. Minimum sample size is preferably 5mL.

#### **Urine specimens**

Whole urine specimens should be collected in the early morning on three consecutive days in a 250ml CE marked leak proof container (that does not contain boric acid), and placed in a sealed plastic bag. Urine specimens received in 20ml universal containers will be rejected.

#### Sterile site body fluids

Collect aseptically as much (eg >6mL in adults) CSF sample as possible If only

Authorised by: T Carey/C Frearson

Date of issue: 12/12/2025

Collection

THIS DOCUMENT IS UNCONTROLLED WHEN PRINTED

DCN: MIC-P-006-13.2 Page 126 of 187

| Turnaround time            | 6 weeks.   |
|----------------------------|--|
| Biological reference units |  |
| Measurement units          |  |
| Tests                      | This test is processed at an external reference centre. Contact the laboratory on Telephone 01793 604798 if further details are required. The parameters analysed in this test and any reference ranges for these parameters will be displayed on the report when it is returned to the requestor.   |
| Toete                      | No microscopy performed on urine samples for Mycobacteria investigations.  If sample volume is insufficient for both microscopy and culture, culture is usually preferred to microscopy due to greater sensitivity.  |
| Laboratory information     |  |
| Special requirements       | For the initial diagnosis of mycobacterial infection all specimens should be fresh and taken, whenever possible, before anti-tubercular treatment is started. 'Other' antimicrobials may also have significant anti-mycobacterial activity, notably the fluoroquinolones such as ciprofloxacin, levofloxacin or moxifloxacin, and the macrolides such as clarithromycin or azithromycin. |
| Storage requirements       | Outside of normal working hours samples should be refrigerated.  |
| Specimen transport         | Gamma Interferon Tests  Specimens should be sent to the laboratory without delay during normal working hours.  Do not use pneumatic chute system if investigation for Mycobacteria required.   |
|                            | The following are specialist tests:  Molecular tests (PCR)   |
|                            | Blood culture In patients where disseminated mycobacterial disease is suspected (e.g. Mycobacterium avium intracellulare complex in HIV infected patients) send a peripheral blood sample in a Lithium heparin tube (green top vacuette).  |
|                            | Cerebrospinal fluid (CSF) For CSF refer to CSF microscopy and culture.   |
|                            | <b>Lymph node and tissue samples</b> Send in sterile container. A small amount of sterile water or saline may be added to prevent the sample from dehydrating.   |
|                            | It should be noted that pleural or pericardial fluids are not very sensitive samples for the detection of <i>M. tuberculosis</i> , and that a concurrent pleural or pericardial biopsy taken with the fluid is more useful. A negative result on these fluids does not rule out the diagnosis.   |
|                            | a small volume is available after initial lumbar puncture, and the findings of cell counts and protein suggest TB meningitis, a second procedure should be considered to obtain a larger volume to improve chances of achieving positive cultures.   |

Authorised by: T Carey/C Frearson DCN: MIC-P-006-13.2
Date of issue: 12/12/2025 Page 127 of 187

THIS DOCUMENT IS UNCONTROLLED WHEN PRINTED



|   | Significant positive results are communicated to clinicians as and when they arise.  |
|---|--|
| Availability                                      | Routine hours.   |
| Clinical information                              |  |
| Factors known to significantly affect the results | EDTA, even in trace amounts, inhibits the growth of some <i>Mycobacterium</i> species.  Some antimicrobials have significant anti-mycobacterial activity, notably the fluoroquinolones such as ciprofloxacin, levofloxacin or moxifloxacin, and the macrolides such as clarithromycin or azithromycin. |

#### **Back to index**

Authorised by: T Carey/C Frearson DCN: MIC-P-006-13.2
Date of issue: 12/12/2025 Page 128 of 187



### **Mycobacteria PCR**

May be appropriate under certain circumstances. Usually performed on smear positive samples where drug resistance is strongly suspected. Requests must be discussed with Consultant Microbiologist.

| Examinations offered       |  |   |                  |
|----------------------------|--|---|------------------|
| Collection container       | Specimen   | Sample volume   | Request form     |
|                            | Sputum, gastric washing, sterile site body fluids (CSF, pleural fluids etc), skin or tissue biopsies, bone marrow, bronchoalveolar washings, bone and bone marrow, lymph node and tissue samples   | 1mL of Sputum<br>5mL of BAL<br>6mL of CSF                       |                  |
|                            | Urine  | Early morning urine on three consecutive days, 250ml container  |                  |
|                            | Heparin blood  | 2 – 6 mls   |                  |
| Sample instructions        |  |   |                  |
| Collection                 | Refer to Mycobacter  Cerebrospinal fluid (  Refer to CSF microsco  | CSF)  |                  |
| Specimen transport         | Specimens should be working hours.   | sent to the laboratory witho<br>c chute system if investigation |                  |
| Storage requirements       | Outside of normal wo   | orking hours samples should                                     | be refrigerated. |
| Special requirements       | No special requirements.   |   |                  |
| Laboratory information     |  |   |                  |
| Tests                      | This test is processed at an external reference centre. Contact the laboratory on Telephone 01793 604798 if further details are required. The parameters analysed in this test and any reference ranges for these parameters will be displayed on the report when it is returned to the requestor. |   |                  |
| Measurement units          |  |   |                  |
| Biological reference units |  |   |                  |
| Turnaround time            | 2 weeks. Significant positive results are communicated to clinicians as and when they arise.   |   |                  |
| Availability               | Routine hours.   |   |                  |

Authorised by: T Carey/C Frearson DCN: MIC-P-006-13.2
Date of issue: 12/12/2025 Page 129 of 187

THIS DOCUMENT IS UNCONTROLLED WHEN PRINTED



| Clinical information                              |  |
|---|--|
| Factors known to significantly affect the results | EDTA, even in trace amounts, inhibits the growth of some <i>Mycobacterium</i> species.  Some antimicrobials have significant anti-mycobacterial activity, notably the fluoroquinolones such as ciprofloxacin, levofloxacin or moxifloxacin, and the macrolides such as clarithromycin or azithromycin. |

**Back to index** 

Authorised by: T Carey/C Frearson DCN: MIC-P-006-13.2
Date of issue: 12/12/2025 Page 130 of 187

### **Mycology**

Infection by dermatophytes is cutaneous and generally restricted to the non-living cornified layers in patients who are immunocompetent. This is because the dermatophyte group of fungi are generally unable to penetrate tissues which are not fully keratinised (ie deeper tissues and organs). However, reactions to such infections can range from mild to severe, depending upon the host's immune response, the virulence of the infecting species, the site of infection and environmental factors.

| <b>Examinations offered</b>  |  |   |  |
|--|--|---|--|
| Collection container   | Specimen   | Sample volume   | Request form   |
|  | Skin, hair, nails  |   |  |
| DERMAPAK® 2000  Correspa 2000 o desperá and o mandatura el in the LEA for DERMACO LID  PO Bas MI, Bedani, Banda SAGS SMO U.K. The CORRESPANCE TO CORRESPANCE | Skin, hair, nails  |   |  |
| Sample instructions  |  |   |  |
| Collection   | specifically for  Skin  Material from outer edges of a scalpel blade  Hair  Scalp scrapings may be plucke as infection is be transported  Nails  Clippings shou cut back as far the lower part supplement th | skin lesions is collected by gent<br>the lesion, usually with the ed<br>the lesion, usually with the ed<br>to the edge is most likely to con<br>s are obtained as above but sho<br>d from the scalp with forceps,<br>usually below the surface near<br>to the laboratory as for skin so | tly scraping off material from the ge of a glass microscope slide or stain viable fungus.  ould include hair stubs. Hairs but cut hairs are unsatisfactory the scalp. The material should crapings.  ed or brittle parts of the nail and e as some fungi are restricted to from under the nail to a fail to grow fungi even if |
|  |  | psy, blood cultures, CSF, urine   | for culture as clinically indicated.<br>e discuss with the Microbiology  |
| Specimen transport   | Specimens sho  | ould be transported and proces  | sed as soon as possible.   |
| Storage requirements   | •  | d be allowed to dry out and ke<br>amples are kept dry, the fungu  | pt at room temperature.<br>s will remain viable for several  |

Authorised by: T Carey/C Frearson DCN: MIC-P-006-13.2 Date of issue: 12/12/2025 Page 131 of 187



| Special requirements                              | No special requirements.   |  |  |
|---|--|--|--|
| Laboratory information                            |  |  |  |
| Tests   | This test is processed at an external reference centre. Contact the laboratory on Telephone 01793 604798 if further details are required. The parameters analysed in this test and any reference ranges for these parameters will be displayed on the report when it is returned to the requestor. |  |  |
| Measurement units                                 |  |  |  |
| Biological reference units                        |  |  |  |
| Turnaround time                                   | Microscopy 1 week. Culture 4 weeks.  |  |  |
| Availability                                      | Routine hours.   |  |  |
| Clinical information                              |  |  |  |
| Factors known to significantly affect the results |  |  |  |

**Back to index** 

Authorised by: T Carey/C Frearson DCN: MIC-P-006-13.2
Date of issue: 12/12/2025 Page 132 of 187



# **Miscellaneous Mycology serology**

Used to determine past or current infection.

| Examinations offered                           |   |  |  |  |
|--|---|--|--|--|
| Collection container                           | Specimen                                | Sample volume  | Request form   |  |
|  | Venous blood                            | 2 – 6 mls  | ### Company of the Co |  |
| Sample instructions                            |   |  |  |  |
| Collection                                     | No special require                      | ments.   |  |  |
| Specimen transport                             | Specimens should working hours.         | be sent to the laborator   | ry without delay during normal   |  |
| Storage requirements                           | Outside of normal                       | working hours samples  | should be refrigerated.  |  |
| Special requirements                           |   | Clinical details and any history of travel or occupational exposure are essential for processing.  |  |  |
| Laboratory information                         |   |  |  |  |
| Tests  | laboratory on Tele<br>parameters analys | This test is processed at an external reference centre. Contact the laboratory on Telephone 01793 604798 if further details are required. The parameters analysed in this test and any reference ranges for these parameters will be displayed on the report when it is returned to the requestor. |  |  |
| Measurement units                              |   |  |  |  |
| Biological reference units                     |   |  |  |  |
| Turnaround time                                | 14 days.                                | 14 days.   |  |  |
| Availability                                   | Routine hours.                          | Routine hours.   |  |  |
| Clinical information                           |   |  |  |  |
| Factors known to significan affect the results | Haemolysis.                             | Haemolysis.  |  |  |

#### **Back to index**

Authorised by: T Carey/C Frearson Date of issue: 12/12/2025

Page 133 of 187

DCN: MIC-P-006-13.2



### Mycoplasma genitalium

Detection of Mycoplasma genitalium and macrolide resistance.

| <b>Examinations offered</b>  |  |   |  |  |
|--|--|---|--|--|
| Collection container   | Specimen   | Sample volume   | Request form   |  |
| Section 1979 Section 1979  | Cervical, urethral, throat, rectal swab  |   | A Comment of the Comm |  |
| to the second se | Urine (first void)   | Minimum volume 2ml  |  |  |
| Sample instructions  |  |   |  |  |
| Collection   | guidelines on the co   |   |  |  |
| Specimen transport   | Specimens should be working hours.   | pe sent to the laboratory wit   | hout delay during normal   |  |
| Storage requirements   | Outside of normal v  | working hours samples shou  | ld be refrigerated.  |  |
| Special requirements   | Urine – patient should not have urinated for 2 hours prior to sample collection.   |   | hours prior to sample  |  |
| Laboratory information   |  |   |  |  |
| Tests  | This test is processed at an external reference centre. Contact the laboratory on Telephone 01793 604798 if further details are required. The parameters analysed in this test and any reference ranges for these parameters will be displayed on the report when it is returned to the requestor.   |   |  |  |
| Measurement units  |  | Presence detected or not detected.  Positive samples will be tested for Macrolide resistance. |  |  |
| Biological reference units   |  |   |  |  |
| Turnaround time  | 14 days.   |   |  |  |
| Availability   | Routine hours.   | Routine hours.  |  |  |
| Clinical information   |  |   |  |  |
| Factors known to significate affect the results  | False negatives may occur for a variety of reasons, for example inappropriate timing of sample collection, inappropriate sample, presence of organism below the detectable limit of the assay. Towards the limit of detection of an assay sampling variation will result in lower reproducibility. New and emerging variants may also occur which may not be detected by this assay. |   |  |  |

#### **Back to index**

Authorised by: T Carey/C Frearson DCN: MIC-P-006-13.2 Date of issue: 12/12/2025 Page 134 of 187



# Mycoplasma pneumoniae

Detection of Mycoplasma pneumoniae and macrolide resistance.

| Examinations offered                           |   |  |   |  |
|--|---|--|---|--|
| Collection container                           | Specimen  | Sample volume  | Request form  |  |
| 0.00   | Upper respiratory swab  | 1mL  | 1   |  |
| Sample instructions                            |   |  |   |  |
| Collection                                     | Specimens should guidelines on the c                            |  | following the recommended   |  |
| Specimen transport                             | Specimens should working hours.                                 | be sent to the laboratory  | without delay during normal   |  |
| Storage requirements                           | Outside of normal   | working hours samples sl   | hould be refrigerated.  |  |
| Special requirements                           | Urine – patient sho<br>collection.                              | ould not have urinated for   | r 2 hours prior to sample   |  |
| Laboratory information                         |   |  |   |  |
| Tests  | laboratory on Tele<br>parameters analys                         | This test is processed at an external reference centre. Contact the laboratory on Telephone 01793 604798 if further details are required. The parameters analysed in this test and any reference ranges for these parameters will be displayed on the report when it is returned to the requestor. |   |  |
| Measurement units                              |   | Presence detected or not detected.  Positive samples will be tested for Macrolide resistance.  |   |  |
| Biological reference units                     |   |  |   |  |
| Turnaround time                                | 14 days.  |  |   |  |
| Availability                                   | Routine hours.  |  |   |  |
| Clinical information                           |   |  |   |  |
| Factors known to significan affect the results | inappropriate timin<br>of organism below<br>detection of an ass | the detectable limit of the ay sampling variation wil  | easons, for example<br>nappropriate sample, presence<br>ne assay. Towards the limit of<br>I result in lower reproducibility<br>which may not be detected by |  |

#### **Back to index**

Authorised by: T Carey/C Frearson DCN: MIC-P-006-13.2 Date of issue: 12/12/2025 Page 135 of 187



### Neisseria gonorrhoeae PCR

This test is exclusively only available to the Great Western Hospital Sexual Health department. If NAATs testing is required, please liaise with the Microbiology Department or refer patient to Sexual Health Clinic. Also see GC culture.

| Examinations offered                            |  |   |              |  |
|---|--|---|--------------|--|
| Collection container                            | Specimen   | Sample volume   | Request form |  |
| O   | Eye, cervical, urethral,<br>throat, rectal swab  |   |              |  |
|   | Urine (first void)   | Minimum volume 2ml  |              |  |
| Sample instructions                             |  |   |              |  |
| Collection                                      | Specimens should be collected and handled following the recommended guidelines on the collection packs.  Refer to Chlamydia PCR – collection of vaginal sample and Chlamydia PCR – collection of urine sample.   |   |              |  |
| Specimen transport                              | Specimens should working hours.  | Specimens should be sent to the laboratory without delay during normal working hours. |              |  |
| Storage requirements                            | Outside of normal  | Outside of normal working hours samples should be refrigerated.                       |              |  |
| Special requirements                            | Urine – patient sho<br>collection.   | Urine – patient should not have urinated for 2 hours prior to sample collection.      |              |  |
| Laboratory information                          |  |   |              |  |
| Tests   | Detection of Neisseria gonorrhoeae nucleic acid (qualitative).   |   |              |  |
| Measurement units                               | Presence detected or not detected.   |   |              |  |
| Biological reference units                      |  |   |              |  |
| Turnaround time                                 | 4 days.  |   |              |  |
| Availability                                    | Routine hours.   | Routine hours.  |              |  |
| Clinical information                            |  |   |              |  |
| Factors known to significate affect the results | False negatives may occur for a variety of reasons, for example inappropriate timing of sample collection, inappropriate sample, presence of organism below the detectable limit of the assay. Towards the limit of detection of an assay sampling variation will result in lower reproducibility. New and emerging variants may also occur which may not be detected by this assay. |   |              |  |

#### **Back to index**

Authorised by: T Carey/C Frearson DCN: MIC-P-006-13.2 Date of issue: 12/12/2025 Page 136 of 187

THIS DOCUMENT IS UNCONTROLLED WHEN PRINTED



#### **Norovirus PCR**

Norovirus test performed only on instruction by the Infection Control Team in the investigation of outbreaks.

| Examinations offered                              |  |   |   |  |
|---|--|---|---|--|
| Collection container                              | Specimen   | Sample volume   | Request form  |  |
| 0 1 1 1 1   | Stool sample                                     | Liquid specimen: 1 – 2ml<br>Formed specimen: large<br>pea size sample   |   |  |
| Sample instructions                               |  |   |   |  |
| Collection  | -  | be passed into a clean, dry, dispotransferred to an appropriate colle   |   |  |
| Specimen transport                                | Specimens sho<br>working hours                   | ould be sent to the laboratory with   | out delay during normal   |  |
| Storage requirements                              | Outside of nor                                   | mal working hours samples should  | d be refrigerated.  |  |
| Special requirements                              | Repeat sample                                    | Clinical details are essential for processing.  Repeat samples for microbiological clearance not usually required —  Microbiologists will advise if necessary.                                      |   |  |
| Laboratory information                            |  |   |   |  |
| Tests   | Detection of N                                   | Detection of Norovirus nucleic acid (qualitative).  |   |  |
| Measurement units                                 |  |   |   |  |
| Biological reference units                        |  |   |   |  |
| Turnaround time                                   | 1 day.   |   |   |  |
| Availability                                      | Routine hours                                    |   |   |  |
| Clinical information                              |  |   |   |  |
| Factors known to significat<br>affect the results | inappropriate ntly of organism be detection of a | s may occur for a variety of reason<br>timing of sample collection, inappose<br>elow the detectable limit of the ass<br>n assay sampling variation will resu<br>rging variants may also occur which | ropriate sample, presence say. Towards the limit of all in lower reproducibility. |  |

#### **Back to index**

Authorised by: T Carey/C Frearson DCN: MIC-P-006-13.2 Date of issue: 12/12/2025 Page 137 of 187



#### **Nose swab**

Nasal colonisation with *Staphylococcus aureus* increases the risk of staphylococcal infections at other sites of the body such as postoperative wounds and dialysis access sites.

| Examinations offered                           |                                  |  |                    |  |
|--|----------------------------------|--|--------------------|--|
| Collection container                           | Specimen                         | Sample volume  | Request form       |  |
| QBD colonials laine (Q) (2)                    | Nose swab (Amies transport swab) |  | 1                  |  |
| Sample instructions                            |                                  |  |                    |  |
| Collection                                     | Plain sterile cotto              | Optimally collected before antimicrobial therapy started.  Plain sterile cotton wool swab. Sample the anterior nares by gently rotating the swab over the mucosal surface. |                    |  |
| Specimen transport                             | Specimens should working hours.  | Specimens should be sent to the laboratory without delay during normal working hours.  |                    |  |
| Storage requirements                           |                                  | Outside of normal working hours samples should be refrigerated.  Delays of over 48 hours are undesirable.  |                    |  |
| Special requirements                           | Nasal swabs shou pertussis.      | Nasal swabs should NOT be taken to investigate the presence of <u>Bordetella</u> <u>pertussis</u> .  |                    |  |
| Laboratory information                         |                                  |  |                    |  |
| Tests  |                                  | General isolation and characterisation of aerobic, microaerophilic and anaerobic micro-organisms (qualitative).  |                    |  |
| Measurement units                              | Growth detected                  | Growth detected or not detected.   |                    |  |
| Biological reference units                     |                                  |  |                    |  |
| Turnaround time                                | 4 days.                          | 4 days.  |                    |  |
| Availability                                   | Routine hours.                   | Routine hours.   |                    |  |
| Clinical information                           |                                  |  |                    |  |
| Factors known to significan affect the results | Delays in transpo                | rtation may affect the reco  | very of pathogens. |  |

#### **Back to index**

Authorised by: T Carey/C Frearson

Date of issue: 12/12/2025

THIS DOCUMENT IS UNCONTROLLED WHEN PRINTED

DCN: MIC-P-006-13.2 Page 138 of 187



# Pan fungal PCR (18S)

Diagnosis of acute disease.

| Examinations offered                           |   |  |   |  |
|--|---|--|---|--|
| Collection container                           | Specimen  | Sample volume  | Request form  |  |
|  | EDTA blood  | Minimum volume 500μl   |   |  |
| Sample instructions                            |   |  |   |  |
| Collection                                     | No special require  | ments.   |   |  |
| Specimen transport                             | Specimens should working hours.                                   | be sent to the laboratory with   | hout delay during normal  |  |
| Storage requirements                           | Outside of normal   | working hours samples shoul  | ld be refrigerated.   |  |
| Special requirements                           | Clinical details are  | essential for processing.  |   |  |
| Laboratory information                         |   |  |   |  |
| Tests  | laboratory on Tele<br>parameters analys                           | This test is processed at an external reference centre. Contact the laboratory on Telephone 01793 604798 if further details are required. The parameters analysed in this test and any reference ranges for these parameters will be displayed on the report when it is returned to the requestor. |   |  |
| Measurement units                              |   |  |   |  |
| Biological reference units                     |   |  |   |  |
| Turnaround time                                | 14 days   |  |   |  |
| Availability                                   | Routine hours.  |  |   |  |
| Clinical information                           |   |  |   |  |
| Factors known to significan affect the results | inappropriate timi<br>tly of organism below<br>detection of an as | ay occur for a variety of reaso<br>ng of sample collection, inapp<br>the detectable limit of the as<br>say sampling variation will res<br>g variants may also occur whice  | propriate sample, presence<br>ssay. Towards the limit of<br>sult in lower reproducibility |  |

#### **Back to index**

Authorised by: T Carey/C Frearson
Date of issue: 12/12/2025

THIS DOCUMENT IS UNCONTROLLED WHEN PRINTED

Page 139 of 187

DCN: MIC-P-006-13.2



### Pan-valentine leukocidin (PVL) toxin detection

Testing for the PVL toxin gene on isolates will be directed by the Consultant Microbiologist, based on clinical presentation and/or antibiotic sensitivity patterns. Generally, PVL toxin testing will be carried out on the following:

- S. aureus cultured from individuals with recurrent boils/abscesses
- S. aureus cultured from individuals with necrotising skin and soft tissue infections
- S. aureus pneumonia
- Ciprofloxacin sensitive MRSA
- Any other S. aureus isolate as indicated by the Consultant Microbiologist

| <b>Examinations offered</b>                    |  |  |   |
|--|--|--|---|
| Collection container                           | Specimen   | Sample volume  | Request form  |
|  | S. aureus isolated by laboratory, as directed by Consultant Microbiologist                                 |  |   |
| Sample instructions                            |  |  |   |
| Collection                                     | No special requiren  | nents.   |   |
| Specimen transport                             | Specimens should be working hours.   | oe sent to the laboratory  | without delay during normal   |
| Storage requirements                           | Outside of normal  | working hours samples s  | hould be refrigerated.  |
| Special requirements                           | No special requiren  | nents.   |   |
| Laboratory information                         |  |  |   |
| Tests  | Detection of PVL toxin nucleic acid (qualitative): This test is processed at an external reference centre. |  |   |
| Measurement units                              |  |  |   |
| Biological reference units                     |  |  |   |
| Turnaround time                                | 4 days.  |  |   |
| Availability                                   | Routine hours.   |  |   |
| Clinical information                           |  |  |   |
| Factors known to significan affect the results | inappropriate timir<br>tly of organism below<br>detection of an ass  | the detectable limit of the ay sampling variation will ay sampling variation will be a second to the same the s | easons, for example<br>nappropriate sample, presence<br>ne assay. Towards the limit of<br>Il result in lower reproducibility.<br>which may not be detected by |

#### **Back to index**

Authorised by: T Carey/C Frearson DCN: MIC-P-006-13.2
Date of issue: 12/12/2025 Page 140 of 187

THIS DOCUMENT IS UNCONTROLLED WHEN PRINTED

# Parasitology (Bilharzia/Schistosoma haematobium)

Diagnosis of acute infection.

| Examinations offered   |   |   |  |  |
|------------------------|---|---|--|--|
| Collection container   | Specimen  | Sample volume   | Request form   |  |
|                        | Urine sample  | Sample collected between 10:00 and 14:00. Alternatively, a 24hr collection of terminal samples of urine may be obtained.  |  |  |
| Sample instructions    |   |   |  |  |
| Collection             | freshwater exposur terminal urine three stool san months or more terminal urine three stool san clotted blood f  Send also a FBC for Urine collection Collect a urine spec concentration of eg Ask patient to uring voided and collect 20ml of urine) in a Alternatively, a 24h It is also recommer | <ul> <li>not mid-stream</li> <li>nples, 2 days apart</li> <li>or <u>Schistosoma serology</u></li> <li>detection of eosinophilia.</li> <li>cimen between 1000 and 1400,</li> </ul> | , as this is when the highest<br>before bladder completely<br>e sample (the last 10 to<br>samples.<br>es of urine may be obtained.<br>should be taken before the |  |
| Specimen transport     | Specimens should I working hours.   | Specimens should be sent to the laboratory without delay during normal  |  |  |
| Storage requirements   |   | Outside of normal working hours samples should be refrigerated.  Delays of over 48 hours are undesirable.   |  |  |
| Special requirements   | Please provide info   | rmation regarding recent forei  | gn travel.   |  |
| Laboratory information |   |   |  |  |
| Tests                  | Presence of Schisto   | osoma haematobium (qualitativ   | /e).   |  |
| Measurement units      |   |   |  |  |

Authorised by: T Carey/C Frearson DCN: MIC-P-006-13.2
Date of issue: 12/12/2025 Page 141 of 187

THIS DOCUMENT IS UNCONTROLLED WHEN PRINTED



| Biological reference units                      |                |  |
|---|----------------|--|
| Turnaround time                                 | 2 days.        |  |
| Availability                                    | Routine hours. |  |
| Clinical information                            |                |  |
| Factors known to significant affect the results |                |  |

**Back to index** 

Authorised by: T Carey/C Frearson DCN: MIC-P-006-13.2
Date of issue: 12/12/2025 Page 142 of 187



# Parasitology (Pinworm)

Diagnosis of acute infection.

| Examinations offered  |   |                           |              |
|---|---|---------------------------|--------------|
| Collection container  | Specimen  | Sample volume             | Request form |
| Please contact the<br>laboratory on 01793<br>604798 for collection kits | Sellotape from perianal region  |                           |              |
| Sample instructions   |   |                           |              |
| Collection  | Please contact the laboratory on 01793 604798 for collection kits.  Paraclick or "Sellotape slides" are used in the diagnosis of threadworm and the procedure should be carried out first thing in the morning. Please next page for collection instructions. |                           |              |
| Specimen transport  | Specimens should be sent to the laboratory without delay during normal working hours.   |                           |              |
| Storage requirements  | Outside of normal working hours samples should be refrigerated.  Delays of over 48 hours are undesirable.   |                           |              |
| Special requirements  | No special requirements.  |                           |              |
| Laboratory information  |   |                           |              |
| Tests   | Presence of Enterob   | ius vermicularis ova (qua | alitative).  |
| Measurement units   |   |                           |              |
| Biological reference units  |   |                           |              |
| Turnaround time   | 2 days.   |                           |              |
| Availability  | Routine hours.  |                           |              |
| Clinical information  |   |                           |              |
| Factors known to significar affect the results                          | ntly  |                           |              |

Authorised by: T Carey/C Frearson DCN: MIC-P-006-13.2 Date of issue: 12/12/2025 Page 143 of 187

# Great Western Hospitals **NHS**

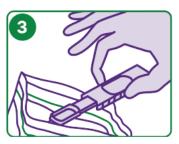
**NHS Foundation Trust** 



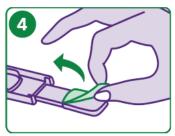
Please follow these steps for 3 consecutive days. Ensure the child's anal area is clean before going to bed.



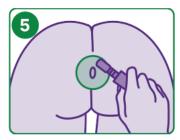
Do the test first thing in the morning immediately after the child wakes (before a bowel movement and before washing).



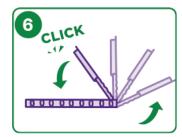
Wash & dry hands well. Remove a test device from the plastic bag.



Peel protective film from the adhesive area - DO NOT TOUCH THE ADHESIVE AREA.



Gently press adhesive area several times on skin around the anal area.



Fold the test device until you hear a click, to seal and protect the sample.



Label the folded test device and place in a small return bag, seal and refigerate. Wash & dry hands well.



Store used test devices in refigerator until all 3 samples have been collected.



After the final test, place all three samples into the original plastic bag and return to your healthcare provider.

#### **Back to index**

Authorised by: T Carey/C Frearson

Date of issue: 12/12/2025

DCN: MIC-P-006-13.2

Page 144 of 187



## **Miscellaneous Parasitology serology**

Used to determine past or current infection.

| Examinations offered                            |                               |  |                                      |  |
|---|-------------------------------|--|--------------------------------------|--|
| Collection container                            | Specimen                      | Sample volume  | Request form                         |  |
|   | Venous blood                  | 2 – 6 mls  | 1                                    |  |
| Sample instructions                             |                               |  |                                      |  |
| Collection                                      | Clotted blood sa              | mple – at least 12 weeks   | post exposure.                       |  |
| Specimen transport                              | Specimens shou working hours. | ld be sent to the laborato   | ry without delay during normal       |  |
| Storage requirements                            | Outside of norm               | al working hours samples   | should be refrigerated.              |  |
| Special requirements                            | and travel histor             | Please include relevant clinical details, including reason for investigations and travel history.  Send stool sample.  |                                      |  |
| Laboratory information                          |                               |  |                                      |  |
| Tests   | laboratory on Te              | This test is processed at an external reference centre. Contact the laboratory on Telephone 01793 604798 if further details are required. The parameters analysed in this test and any reference ranges for these parameters will be displayed on the report when it is returned to the requestor. |                                      |  |
| Measurement units                               |                               |  |                                      |  |
| Biological reference units                      |                               |  |                                      |  |
| Turnaround time                                 | 14 days.                      |  |                                      |  |
| Availability                                    | Routine hours.                | Routine hours.   |                                      |  |
| Clinical information                            |                               |  |                                      |  |
| Factors known to significant affect the results | tiv '                         | take up to 3 months to de<br>al months after successful  | velop. Once detectable may treatment |  |

### **Back to index**

Authorised by: T Carey/C Frearson
Date of issue: 12/12/2025

THIS DOCUMENT IS UNCONTROLLED WHEN PRINTED

DCN: MIC-P-006-13.2 Page 145 of 187



## **Parasitology (Stool)**

There is no need to request OCP for Cryptosporidium and Giardia lamblia; all stool samples for culture will be automatically tested for these.

Information required for other parasitic infections:

- Foreign travel history
- Blood eosinophil count
- Duration of diarrhoea
- Presence/absence of abdominal symptoms
- Evidence of malabsorption

| Examinations offered                            |  |  |               |
|---|--|--|---------------|
| Collection container                            | Specimen   | Sample volume  | Request form  |
| NI N N N  | Stool sample   | 3 stool samples over a period of 10 days. Liquid specimen: 1 – 2ml Formed specimen: large pea size sample. |               |
| Sample instructions                             |  |  |               |
| Collection                                      |  | passed into a clean, dry, disposa<br>aferred to an appropriate collec                                      |               |
| Specimen transport                              | Specimens should be sent to the laboratory without delay during normal working hours.  |  |               |
| Storage requirements                            | Outside of normal working hours samples should be refrigerated.  Delays of over 48 hours are undesirable.  |  |               |
| Special requirements                            | For examination of amoebic trophozoites the specimen must reach the laboratory within 1 hour of its production. It is advisable to arrange this examination with the Departments in advance. |  |               |
| Laboratory information                          |  |  |               |
| Tests   | Presence and ident   | ification of ova and parasites (   | qualitative). |
| Measurement units                               |  |  |               |
| Biological reference units                      |  |  |               |
| Turnaround time                                 | 4 days.  |  |               |
| Availability                                    | Routine hours.   |  |               |
| Clinical information                            |  |  |               |
| Factors known to significant affect the results | tly  |  |               |

#### **Back to index**

Authorised by: T Carey/C Frearson DCN: MIC-P-006-13.2
Date of issue: 12/12/2025 Page 146 of 187



# Parasitology (Worm identification)

| Examinations offered                            |   |                                |                        |  |
|---|---|--------------------------------|------------------------|--|
| Collection container                            | Specimen  | Sample volume                  | Request form           |  |
|   | Worm  | Please send actual worm seen   |                        |  |
| Sample instructions                             |   |                                |                        |  |
| Collection                                      | Please send actual w  | orm seen.                      |                        |  |
| Specimen transport                              | Specimens should be working hours.  | e sent to the laboratory witho | ut delay during normal |  |
| Storage requirements                            | Outside of normal working hours samples should be refrigerated.  Delays of over 48 hours are undesirable. |                                |                        |  |
| Special requirements                            | No special requirements.  |                                |                        |  |
| Laboratory information                          |   |                                |                        |  |
| Tests   | Parasite identification (qualitative).  |                                |                        |  |
| Measurement units                               |   |                                |                        |  |
| Biological reference units                      |   |                                |                        |  |
| Turnaround time                                 | 2 days.   |                                |                        |  |
| Availability                                    | Routine hours.  |                                |                        |  |
| Clinical information                            |   |                                |                        |  |
| Factors known to significant affect the results | tly   |                                |                        |  |

### **Back to index**

Authorised by: T Carey/C Frearson DCN: MIC-P-006-13.2 Date of issue: 12/12/2025 Page 147 of 187



#### **Parvovirus PCR**

Diagnosis of acute disease. DNA detection may be indicated if significant immuno-suppression (e.g. HIV disease or organ transplant).

| Examinations offered                           |   |  |                            |  |
|--|---|--|----------------------------|--|
| Collection container                           | Specimen                                | Sample volume  | Request form               |  |
|  | EDTA blood                              | 2 – 6 mls  |                            |  |
| Sample instructions                            |   |  |                            |  |
| Collection                                     | No special require                      | ments.   |                            |  |
| Specimen transport                             | Specimens should working hours.         | be sent to the laboratory w  | ithout delay during normal |  |
| Storage requirements                           | Outside of normal                       | working hours samples sho  | uld be refrigerated.       |  |
| Special requirements                           | No special require                      | ments.   |                            |  |
| Laboratory information                         |   |  |                            |  |
| Tests  | laboratory on Tele<br>parameters analys | This test is processed at an external reference centre. Contact the laboratory on Telephone 01793 604798 if further details are required. The parameters analysed in this test and any reference ranges for these parameters will be displayed on the report when it is returned to the requestor. |                            |  |
| Measurement units                              |   |  |                            |  |
| Biological reference units                     |   |  |                            |  |
| Turnaround time                                | 14 days.                                |  |                            |  |
| Availability                                   | Routine hours.                          |  |                            |  |
| Clinical information                           |   |  |                            |  |
| Factors known to significar affect the results |   |  |                            |  |

### **Back to index**

Authorised by: T Carey/C Frearson DCN: MIC-P-006-13.2
Date of issue: 12/12/2025 Page 148 of 187



## **Parvovirus serology**

Please state whether test required for acute disease (IgM/DNA) or if evidence of past exposure (immunity) required (IgG).

IgM is usually positive at time of presentation with acute symptoms. May remain detectable for up to 3 months.

DNA detection may be indicated if significant immuno-suppression (e.g. HIV disease or organ transplant).

| Examinations offered                           |                                       |  |                             |  |  |
|--|---------------------------------------|--|-----------------------------|--|--|
| Collection container                           | Specimen                              | Sample volume  | Request form                |  |  |
|  | Venous blood                          | 2 – 6 mls  |                             |  |  |
| Sample instructions                            |                                       |  |                             |  |  |
| Collection                                     | No special requir                     | ements.  |                             |  |  |
| Specimen transport                             | Specimens should working hours.       | d be sent to the laboratory  | without delay during normal |  |  |
| Storage requirements                           | Outside of norma                      | l working hours samples sh   | nould be refrigerated.      |  |  |
| Special requirements                           |                                       | Clinical details and date of onset are essential for processing.  Indicate if patient is pregnant and gestation, and date of contact or exposure.  |                             |  |  |
| Laboratory information                         |                                       |  |                             |  |  |
| Tests  | laboratory on Tel<br>parameters analy | This test is processed at an external reference centre. Contact the laboratory on Telephone 01793 604798 if further details are required. The parameters analysed in this test and any reference ranges for these parameters will be displayed on the report when it is returned to the requestor. |                             |  |  |
| Measurement units                              | Measurement units                     |  |                             |  |  |
| Biological reference units                     |                                       |  |                             |  |  |
| Turnaround time                                | 14 days.                              | 14 days.   |                             |  |  |
| Availability                                   | Routine hours.                        | Routine hours.   |                             |  |  |
| Clinical information                           |                                       |  |                             |  |  |
| Factors known to significan affect the results | Haemolysis.                           |  |                             |  |  |

#### **Back to index**

Authorised by: T Carey/C Frearson DCN: MIC-P-006-13.2
Date of issue: 12/12/2025 Page 149 of 187



# Peritoneal dialysis fluid (PDF)

| Examinations offered   |   |  |  |
|--|---|--|--|
| Collection container   | Specimen  | Sample volume  | Request form   |
| - 15 / ·   | Peritoneal dialysis fluid   | Minimum volume 1ml   |  |
| DO ANTICO CONTROL OF THE PROPERTY OF THE PROPE |   | Inoculate with the recommended volume of 8-10mL in each adult bottle, or 1-3mL for paediatric bottles.   |  |
| Sample instructions  |   |  |  |
| Collection   | Blood culture bott<br>Refer to Blood Cul  | lles<br>ture Method Options.   |  |
| Specimen transport   |   | be sent to the laboratory with   | hout delay during normal                                     |
| Storage requirements   | Outside of normal   | working hours samples shoul  | d be refrigerated.   |
| Special requirements   | No special require  | ments.   |  |
| Laboratory information   |   |  |  |
| Tests  | Detection of gram<br>General isolation a  | blood cells (quantitative).<br>positive and negative bacteri<br>ind characterisation of aerobi<br>rganisms (qualitative).  | -  |
| Measurement units  | Cell count x 10 <sup>6</sup> /l<br>Growth detected c                                    |  |  |
| Biological reference units   | Total white cell count  | <500 cells x 10 <sup>6</sup> /l  |  |
| Turnaround time  | Microscopy 2 hour<br>Culture 5 days.  | S.   |  |
| Availability   | Routine hours and   | on-call.   |  |
| Clinical information   |   |  |  |
| Factors known to significan affect the results   | are usually receive intly increase likelihood Cells disintegrate. not reflective of the | luid may contain very low nur<br>d in adequate quantities and<br>of successful culture.<br>A delay in transportation ma<br>e clinical situation of the patitation may affect the recover | require concentration to y produce a cell count that is ent. |

**Back to index** 

Authorised by: T Carey/C Frearson DCN: MIC-P-006-13.2 Date of issue: 12/12/2025

THIS DOCUMENT IS UNCONTROLLED WHEN PRINTED

Page 150 of 187



#### **Pneumococcal PCR**

Diagnosis of acute disease such as sepsis and meningitis. If pneumonia is suspected, please send a urine for <u>pneumococcal antigen</u> testing.

| Examinations offered                          |  |  |  |
|---|--|--|--|
| Collection container                          | Specimen   | Sample volume  | Request form   |
|   | EDTA blood   | Minimum volume 5ml   | The state of the |
|   | CSF  | Minimum volume 0.5ml   |  |
| Sample instructions                           |  |  |  |
| Collection                                    | · · · · · · · · · · · · · · · · · · ·  | icroscopy and culture  |  |
| Specimen transport                            | Specimens sho<br>working hours   | ould be sent to the laboratory with  | nout delay during normal   |
| Storage requirements                          | Outside of nor   | mal working hours samples shoul  | d be refrigerated.   |
| Special requirements                          | Clinical details   | are essential for processing.  |  |
| Laboratory information                        |  |  |  |
| Tests   | This test is processed at an external reference centre. Contact the laboratory on Telephone 01793 604798 if further details are required. The parameters analysed in this test and any reference ranges for these parameters will be displayed on the report when it is returned to the requestor. |  | er details are required. The neer ranges for these   |
| Measurement units                             |  |  |  |
| Biological reference units                    |  |  |  |
| Turnaround time                               | 14 days.   |  |  |
| Availability                                  | Routine hours.   |  |  |
| Clinical information                          |  |  |  |
| Factors known to significa affect the results | inappropriate of organism be detection of ar   | s may occur for a variety of reason<br>timing of sample collection, inapp<br>elow the detectable limit of the as<br>n assay sampling variation will res<br>rging variants may also occur whice | oropriate sample, presence say. Towards the limit of ult in lower reproducibility.   |

#### **Back to index**

Authorised by: T Carey/C Frearson DCN: MIC-P-006-13.2 Date of issue: 12/12/2025 Page 151 of 187



## **Pneumococcal serology**

Used to determine immunity.

| Examinations offered                           |                                    |  |                                |  |
|--|------------------------------------|--|--------------------------------|--|
| Collection container                           | Specimen                           | Sample volume  | Request form                   |  |
|  | Venous blood                       | 2 – 6 mls  |                                |  |
| Sample instructions                            |                                    |  |                                |  |
| Collection                                     | No special requir                  | ements.  |                                |  |
| Specimen transport                             | Specimens shoul working hours.     | d be sent to the laborator   | ry without delay during normal |  |
| Storage requirements                           | Outside of norma                   | al working hours samples   | should be refrigerated.        |  |
| Special requirements                           | Pneumococcal se                    | Clinical details are essential for processing.  Pneumococcal serology is not useful in diagnosis of infection. Please send a urine for pneumococcal antigen testing.   |                                |  |
| Laboratory information                         |                                    |  |                                |  |
| Tests  | laboratory on Te<br>The parameters | This test is processed at an external reference centre. Contact the laboratory on Telephone 01793 604798 if further details are required. The parameters analysed in this test and any reference ranges for these parameters will be displayed on the report when it is returned to the requestor. |                                |  |
| Measurement units                              |                                    |  |                                |  |
| Biological reference units                     |                                    |  |                                |  |
| Turnaround time                                | 14 days.                           |  |                                |  |
| Availability                                   | Routine hours.                     |  |                                |  |
| Clinical information                           |                                    |  |                                |  |
| Factors known to significar affect the results | Haemolysis.                        |  |                                |  |

### **Back to index**

Authorised by: T Carey/C Frearson

Date of issue: 12/12/2025

DCN: MIC-P-006-13.2 Page 152 of 187



# Pneumococcal urinary antigen

Diagnosis of acute disease.

| Examinations offered                            |                                |  |  |  |  |  |
|---|--------------------------------|--|--|--|--|--|
| Collection container                            | Specimen                       | Sample volume  | Request form   |  |  |  |
|   | Urine                          | Minimum volume 1ml   | The second secon |  |  |  |
| Sample instructions                             |                                |  |  |  |  |  |
| Collection                                      | If less than 5<br>white toppe  | A minimum of 5ml is required.  If less than 5ml of urine is anticipated, or collecting from a child, collect in to a white topped universal container.  Refer to Urines (Microscopy and Culture).  |  |  |  |  |
| Specimen transport                              |                                | hould be sent to the laboratory with   | nout delay during normal   |  |  |  |
| Storage requirements                            |                                | ormal working hours samples should er 48 hours are undesirable.  | d be refrigerated.   |  |  |  |
| Special requirements                            | The British T<br>high severity | Clinical details are essential for processing.  The British Thoracic Society do not recommend testing unless moderate to high severity pneumonia in hospitalised patients.  Will be tested only if clinical details indicate severe pneumonia on request |  |  |  |  |
| Laboratory information                          |                                |  |  |  |  |  |
| Tests   | Detection of                   | Pneumococcal antigen (qualitative)   |  |  |  |  |
| Measurement units                               | Antigen dete                   | ected or not detected.   |  |  |  |  |
| Biological reference units                      |                                |  |  |  |  |  |
| Turnaround time                                 | 1 day.                         | 1 day.   |  |  |  |  |
| Availability                                    | Routine hou                    | Routine hours.   |  |  |  |  |
| Clinical information                            |                                |  |  |  |  |  |
| Factors known to significant affect the results | ly<br>Pneumococo               | cal vaccination within previous week   | may give positive result.  |  |  |  |

### **Back to index**

Date of issue: 12/12/2025

Authorised by: T Carey/C Frearson

THIS DOCUMENT IS UNCONTROLLED WHEN PRINTED

DCN: MIC-P-006-13.2 Page 153 of 187



# Pneumocystis jirovecii (PCR)

| Examinations offered  |                               |   |                           |
|---|-------------------------------|---|---------------------------|
| Collection container  | Specimen                      | Sample volume   | Request form              |
|   | BAL                           | Minimum volume 1ml                                      |                           |
| Sample instructions   |                               |   |                           |
| Collection  |                               | ens/ bronchoalveolar lavage/batory samples for culture. | ronchial washings         |
| Specimen transport  | Specimens shou working hours. | uld be sent to the laboratory wit                       | chout delay during normal |
| Storage requirements  | Outside of norn               | nal working hours samples shou                          | ld be refrigerated.       |
| Special requirements  | Clinical details a            | are essential for processing.                           |                           |
| Laboratory information  |                               |   |                           |
| This test is processed at an external reference centre. Contact the laboratory on Telephone 01793 604798 if further details are requiparameters analysed in this test and any reference ranges for the parameters will be displayed on the report when it is returned to requestor. |                               | er details are required. The nice ranges for these      |                           |
| Measurement units   |                               |   |                           |
| Biological reference units  |                               |   |                           |
| Turnaround time   | 14 days.                      |   |                           |
| Availability  | Routine hours.                |   |                           |
| Clinical information  |                               |   |                           |
| Factors known to significar affect the results  |                               |   |                           |

### **Back to index**

Authorised by: T Carey/C Frearson DCN: MIC-P-006-13.2
Date of issue: 12/12/2025 Page 154 of 187



# Coxiella/Q fever serology

Used to determine past or current infection.

| Examinations offered                           |                             |  |                                  |  |
|--|-----------------------------|--|----------------------------------|--|
| Collection container                           | Specimen                    | Sample volume  | Request form                     |  |
|  | Venous blood                | 2 – 6 mls  |                                  |  |
| Sample instructions                            |                             |  |                                  |  |
| Collection                                     | No special r                | equirements.   |                                  |  |
| Specimen transport                             | Specimens s<br>working hou  |  | tory without delay during normal |  |
| Storage requirements                           | Outside of n                | normal working hours sample  | es should be refrigerated.       |  |
| Special requirements                           | Clinical deta               | ils are essential for processi   | ng.                              |  |
| Laboratory information                         |                             |  |                                  |  |
| Tests  | laboratory of<br>The parame | This test is processed at an external reference centre. Contact the laboratory on Telephone 01793 604798 if further details are required. The parameters analysed in this test and any reference ranges for these parameters will be displayed on the report when it is returned to the requestor. |                                  |  |
| Measurement units                              |                             |  |                                  |  |
| Biological reference units                     |                             |  |                                  |  |
| Turnaround time                                | 14 days.                    | 14 days.   |                                  |  |
| Availability                                   | Routine hou                 | Routine hours.   |                                  |  |
| Clinical information                           |                             |  |                                  |  |
| Factors known to significar affect the results | Haemolysis.                 |  |                                  |  |

#### **Back to index**

Authorised by: T Carey/C Frearson
Date of issue: 12/12/2025

THIS DOCUMENT IS UNCONTROLLED WHEN PRINTED

DCN: MIC-P-006-13.2 Page 155 of 187



#### **TSPOT.TB Test**

These tests are used primarily for the diagnosis of latent infection in the context of contact tracing. They do not differentiate between latent and active disease.

| Examinations offered                           |  |  |              |  |  |
|--|--|--|--------------|--|--|
| Collection container                           | Specimen   | Sample volume  | Request form |  |  |
| 1 212  | Lithium Heparin  | Adults: 6 ml<br>Children ≥2 to <10 years: 4 ml<br>Infants <2 years: 2 ml                   |              |  |  |
| Sample instructions                            |  |  |              |  |  |
| Collection                                     | Tests using T-SPOT technology are functional assays and can be susceptible to introduction of skin and environmental microorganisms during phlebotomy. It is important that puncture site preparation includes the same skin disinfection procedures that you adopt for blood culture samples.     |  |              |  |  |
| Specimen transport                             | •  | be sent off site within 32 hours of blo<br>samples are returned to the laborato<br>aking). |              |  |  |
| Storage requirements                           | Room temper  | ature – and never refrigerated.  |              |  |  |
| Special requirements                           | If your patient is immunocompromised; Please provide an additional tube to ensure we obtain sufficient PBMCs.  |  |              |  |  |
| Laboratory information                         |  |  |              |  |  |
| Tests  | This test is processed at an external reference centre. Contact the laboratory on Telephone 01793 604798 if further details are required. The parameters analysed in this test and any reference ranges for these parameters will be displayed on the report when it is returned to the requestor. |  |              |  |  |
| Measurement units                              |  |  |              |  |  |
| Biological reference units                     |  |  |              |  |  |
| Turnaround time                                | 7 days.  |  |              |  |  |
| Availability                                   | Specimens can only be receipted Monday-Friday up to 15:30 (except for public holidays). Samples received outside of these times may be rejected.   |  |              |  |  |
| Clinical information                           |  |  |              |  |  |
| Factors known to significan affect the results | itly   |  |              |  |  |

### **Back to index**

Authorised by: T Carey/C Frearson DCN: MIC-P-006-13.2
Date of issue: 12/12/2025 Page 156 of 187



# **Respiratory samples for culture**

| Examinations offered |   |   |  |
|----------------------|---|---|--|
| Collection container | Specimen  | Sample volume   | Request form   |
|                      | Bronchial aspirate, transthoracic aspirate, bronchoalveolar lavage, transtracheal aspirate, bronchial brushings, protected catheter specimens, bronchial washings, endotracheal tube specimens, sputum – expectorated   | Minimum volume 1ml  |  |
| Sample instructions  | ·   |   |  |
| Collection           | Sputum specimens Sputum specimens s Contamination. Puru (ie shortly after patie dry, physiotherapy, p ('sputum induction')  Bronchoalveolar lav These may be sent if Minimum sample siz  A BAL is required for infection.  For Legionella or Pne sample in a plain uni Where Pneumocystic alveolar lavage (BAL) co-infected with HIV  Refer to Mycobacter | ulent specimens are best. Salent waking) have the greater postural drainage or inhalation before expectoration may be age/bronchial washings age/bronchial washings age/bronchial washings age/bronchial washings age/bronchial washings are is preferably 5mL.  The microbiological diagnosis of the expection of the process of the expection of the process | ss than 1 day old) to minimise amples taken early morning st yield. When the cough is ion of nebulised saline be helpful.  Sutum is unavailable.  In invasive fungal respiratory excluded, please send a urine is suspected, a broncheom is acceptable in patients |
| Specimen transport   | working hours.  | e sent to the laboratory with   |  |
| Storage requirements | Delays of over 48 ho  |   |  |
| Special requirements |   | re not processed on the bas<br>of immunocompromised and   | sis of macroscopic description<br>I ITU patients.  |

Authorised by: T Carey/C Frearson DCN: MIC-P-006-13.2
Date of issue: 12/12/2025 Page 157 of 187
THIS DOCUMENT IS UNCONTROLLED WHEN PRINTED



| Laboratory information                            |  |
|---|--|
| Tests   | General isolation and characterisation of aerobic, microaerophilic and anaerobic micro-organisms (qualitative).  Refer to Cystic fibrosis for cough swab specimens.  Extended culture for Burkholderia cepacia performed where requests indicate Cystic Fibrosis.  |
| Measurement units                                 | Growth detected or not detected.   |
| Biological reference units                        |  |
| Turnaround time                                   | 4 days.  |
| Availability                                      | Routine hours.   |
| Clinical information                              |  |
| Factors known to significantly affect the results | All samples are suitable for overnight refrigeration only, they must not be stored over a weekend.  Delays in transportation may affect the recovery of pathogens.  Sputum may be refrigerated for up to 2-3 h without an appreciable loss of pathogens. Any delay beyond this time may allow overgrowth of Gramnegative bacilli, and Haemophilus species and <i>S. pneumoniae</i> may be rendered non-viable. |

**Back to index** 

Authorised by: T Carey/C Frearson DCN: MIC-P-006-13.2
Date of issue: 12/12/2025 Page 158 of 187

Department of Microbiology



## **Respiratory virus PCR**

Respiratory screen for at risk patient groups only (ICU/immunocompromised and paediatric patients) In house testing includes:

Authorised by: T Carey/C Frearson DCN: MIC-P-006-13.2 Date of issue: 12/12/2025 Page 159 of 187



Influenza A
 Influenza B
 RSV

Referred extended panel includes:

- Parainfluenza viruses 1,2,3
- Metapneumovirus

- Adenovirus
- Rhinovirus

For Mycoplasma pneumoniae PCR. For SARS-CoV2 PCR. For PCP PCR.

| <b>Examinations offered</b>   |   |  |  |
|---|---|--|--|
| Collection container  | Specimen  | Sample volume  | Request form   |
| (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)   | Nose and/or throat swab (virus transport medium)                | Minimum volume 1ml   | The state of the |
|   | NPA   | Minimum volume 1ml   |  |
| Sample instructions   |   |  |  |
| Collection  | NPA samples will n  | top) swab from nose and th<br>ot be accepted if sent with t  | ubing attached.  |
| Specimen transport  | Specimens should be working hours.                              | be sent to the laboratory wit  | thout delay during normal  |
| Storage requirements  | Outside of normal   | working hours samples shou   | ld be refrigerated.  |
| Special requirements  | Clinical details are  | essential for processing.  |  |
| Laboratory information  |   |  |  |
| This test is processed at an external reference centre. Contact the laboratory on Telephone 01793 604798 if further details are requir parameters analysed in this test and any reference ranges for these parameters will be displayed on the report when it is returned to the requestor. |   | er details are required. The ence ranges for these   |  |
| Measurement units   |   |  |  |
| Biological reference units  |   |  |  |
| Turnaround time   | In house: 2 hours<br>Referral: 7 days                           |  |  |
| Availability  | Routine hours.  | Routine hours.   |  |
| Clinical information  |   |  |  |
| Factors known to significa affect the results   | inappropriate timir<br>of organism below<br>detection of an ass | False negatives may occur for a variety of reasons, for example inappropriate timing of sample collection, inappropriate sample, presence of organism below the detectable limit of the assay. Towards the limit of detection of an assay sampling variation will result in lower reproducibility. New and emerging variants may also occur which may not be detected by |  |

Authorised by: T Carey/C Frearson DCN: MIC-P-006-13.2 Date of issue: 12/12/2025 Page 160 of 187



this assay.

**Back to index** 

Authorised by: T Carey/C Frearson DCN: MIC-P-006-13.2
Date of issue: 12/12/2025 Page 161 of 187



### **Rotavirus**

Diagnosis of acute disease.

| Examinations offered                            |   |   |   |  |
|---|---|---|---|--|
| Collection container                            | Specimen  | Sample volume   | Request form  |  |
| AT I I I  | Stool sample  | Liquid specimen: 1 – 2ml<br>Formed specimen: large<br>pea size sample   |   |  |
| Sample instructions                             |   |   |   |  |
| Collection                                      |   | assed into a clean, dry, disposa<br>ferred to an appropriate collec   |   |  |
| Specimen transport                              | Specimens should b working hours.                           | e sent to the laboratory witho  | ut delay during normal                              |  |
| Storage requirements                            |   | Outside of normal working hours samples should be refrigerated.  Delays of over 48 hours are undesirable.                       |   |  |
| Special requirements                            | Rotavirus test performed on samples from children <5 years. |   |   |  |
| Laboratory information                          |   |   |   |  |
| Tests   | Rotavirus antigen de  | Rotavirus antigen detection (qualitative).  |   |  |
| Measurement units                               | Growth detected or  | Growth detected or not detected.  |   |  |
| Biological reference units                      |   |   |   |  |
| Turnaround time                                 | 2 days.   | 2 days.   |   |  |
| Availability                                    | Routine hours.  | Routine hours.  |   |  |
| Clinical information                            |   |   |   |  |
| Factors known to significant affect the results | Specimens should b<br>A positive rotavirus                  | efore antimicrobial therapy wl<br>e transported and processed a<br>laboratory result within 15 davination status and NOT active | s soon as possible.<br>ys of Rotarix vaccination is |  |

#### **Back to index**

Authorised by: T Carey/C Frearson

Date of issue: 12/12/2025

DCN: MIC-P-006-13.2 Page 162 of 187



# Rubella (diagnostic)

Used to determine disease progression in individuals infected with rubella.

| Examinations offered                           |   |  |  |  |
|--|---|--|--|--|
| Collection container                           | Specimen                                  | Sample volume  | Request form   |  |
|  | Venous blood                              | 2 – 6 mls  | 100 miles   100 mi |  |
| Sample instructions                            |   |  |  |  |
| Collection                                     | No special requiren                       | nents.   |  |  |
| Specimen transport                             | Specimens should be working hours.        | pe sent to the laboratory wi   | thout delay during normal  |  |
| Storage requirements                           | Outside of normal                         | Outside of normal working hours samples should be refrigerated.  |  |  |
| Special requirements                           | Please indicate if pa                     | Please indicate if patient is pregnant and gestation with contact history.   |  |  |
| Laboratory information                         |   |  |  |  |
| Tests  | laboratory on Teler<br>parameters analyse | This test is processed at an external reference centre. Contact the laboratory on Telephone 01793 604798 if further details are required. The parameters analysed in this test and any reference ranges for these parameters will be displayed on the report when it is returned to the requestor. |  |  |
| Measurement units                              |   |  |  |  |
| Biological reference units                     |   |  |  |  |
| Turnaround time                                | 14 days.                                  | 14 days.   |  |  |
| Availability                                   | Routine hours.                            |  |  |  |
| Clinical information                           |   |  |  |  |
| Factors known to significan affect the results | Haemolysis.                               |  |  |  |

### **Back to index**

Authorised by: T Carey/C Frearson

Date of issue: 12/12/2025

DCN: MIC-P-006-13.2 Page 163 of 187



# Rubella IgG (immunity)

Test is for evidence of past exposure or vaccination/immunity (IgG).

| Examinations offered                           |                                      |   |  |  |
|--|--------------------------------------|---|--|--|
| Collection container                           | Specimen                             | Sample volume   | Request form   |  |
|  | Venous blood                         | 2 – 6 mls   | 100 March 200 Ma |  |
| Sample instructions                            |                                      |   |  |  |
| Collection                                     | No special requiren                  | nents.  |  |  |
| Specimen transport                             | Specimens should l<br>working hours. | Specimens should be sent to the laboratory without delay during normal working hours. |  |  |
| Storage requirements                           | Outside of normal                    | working hours samples shoul   | d be refrigerated.   |  |
| Special requirements                           | Please indicate if pa                | Please indicate if patient is pregnant and gestation with contact history.            |  |  |
| Laboratory information                         |                                      |   |  |  |
| Tests  | Detection of Rubell                  | a IgG antibody (qualitative).   |  |  |
| Measurement units                              |                                      |   |  |  |
| Biological reference units                     |                                      |   |  |  |
| Turnaround time                                | 7 days.                              |   |  |  |
| Availability                                   | Routine hours.                       |   |  |  |
| Clinical information                           |                                      |   |  |  |
| Factors known to significan affect the results | tly Haemolysis.                      |   |  |  |

#### **Back to index**

Authorised by: T Carey/C Frearson
Date of issue: 12/12/2025

THIS DOCUMENT IS UNCONTROLLED WHEN PRINTED

DCN: MIC-P-006-13.2 Page 164 of 187



## **Syphilis antibody**

For diagnosis of acute or recent Syphilis.

If first diagnosis of Syphilis infection a repeat venous blood sample from patient is required to confirm the result.

| Examinations offered                           |                                 |  |              |  |
|--|---------------------------------|--|--------------|--|
| Collection container                           | Specimen                        | Sample volume  | Request form |  |
|  | Venous blood                    | 2 – 6 mls  |              |  |
| Sample instructions                            |                                 |  |              |  |
| Collection                                     | No special require              | ements.  |              |  |
| Specimen transport                             | Specimens should working hours. | Specimens should be sent to the laboratory without delay during normal working hours.  |              |  |
| Storage requirements                           | Outside of norma                | Outside of normal working hours samples should be refrigerated.  |              |  |
| Special requirements                           |                                 | Clinical details and date of onset are essential for processing.  CSF sample if neurosyphilis suspected – discuss with the Consultant  Microbiologist. |              |  |
| Laboratory information                         |                                 |  |              |  |
| Tests  | Detection of Trep               | Detection of Treponema pallidum antibody (qualitative).  |              |  |
| Measurement units                              |                                 |  |              |  |
| Biological reference units                     |                                 |  |              |  |
| Turnaround time                                | 7 days.                         |  |              |  |
| Availability                                   | Routine hours.                  |  |              |  |
| Clinical information                           |                                 |  |              |  |
| Factors known to significar affect the results | Haemolysis.                     |  |              |  |

#### **Back to index**

Authorised by: T Carey/C Frearson

Date of issue: 12/12/2025

DCN: MIC-P-006-13.2 Page 165 of 187



## **Syphilis RPR**

Syphilis confirmation would only be performed on a Syphilis positive sample.

| Examinations offered                           |   |  |                             |  |
|--|---|--|-----------------------------|--|
| Collection container                           | Specimen                                | Sample volume  | Request form                |  |
|  | Venous blood                            | 2 – 6 mls  |                             |  |
| Sample instructions                            |   |  |                             |  |
| Collection                                     | No special require                      | ments.   |                             |  |
| Specimen transport                             | Specimens should working hours.         | be sent to the laboratory  | without delay during normal |  |
| Storage requirements                           | Outside of normal                       | working hours samples s  | hould be refrigerated.      |  |
| Special requirements                           | sample.                                 | Syphilis confirmation would only be performed on a Syphilis positive sample.  Clinical details are essential for processing.   |                             |  |
| Laboratory information                         |   |  |                             |  |
| Tests  | laboratory on Tele<br>parameters analys | This test is processed at an external reference centre. Contact the laboratory on Telephone 01793 604798 if further details are required. The parameters analysed in this test and any reference ranges for these parameters will be displayed on the report when it is returned to the requestor. |                             |  |
| Measurement units                              |   |  |                             |  |
| Biological reference units                     |   |  |                             |  |
| Turnaround time                                | 14 days.                                | 14 days.   |                             |  |
| Availability                                   | Routine hours.                          |  |                             |  |
| Clinical information                           |   |  |                             |  |
| Factors known to significan affect the results | tly<br>Haemolysis.                      |  |                             |  |

#### **Back to index**

Authorised by: T Carey/C Frearson DCN: MIC-P-006-13.2 Date of issue: 12/12/2025 Page 166 of 187



#### **Throat swab**

Bacterial throat swabs will be routinely cultured for primary pathogens i.e. Groups A, C and G  $\beta$ -haemolytic streptococci. Where other potential pathogens such as *Staph. aureus* are predominant or pure growth, they will be reported.

| <b>Examinations offered</b>                     |   |   |                                |  |
|---|---|---|--------------------------------|--|
| Collection container                            | Specimen  | Sample volume   | Request form                   |  |
| OBD Cetarine Man   S/2                          | Throat swab (Amies transport swab)  |   |                                |  |
| Sample instructions                             |   |   |                                |  |
| Collection                                      | Throat swab take be taken avoiding  | the tongue and uvula.   | d/or posterior pharynx, should |  |
| Specimen transport                              | Specimens should working hours.   | l be sent to the laboratory w   | vithout delay during normal    |  |
| Storage requirements                            |   | I working hours samples sho<br>hours are undesirable.   | ould be refrigerated.          |  |
| Special requirements                            | pertussis. Isolation of Neiss Ideally, inoculatio on to culture med without delay. Tr Culture for <i>Coryi</i> clinical or epidem Anaerobic infecti | eria sp only on request. In of specimens for N. gonor Itia at the time of collection a Transport time should be as s Transport time diphtheriae is Transport details are provide Transport on can present with very s | only performed where relevant  |  |
| Laboratory information                          |   |   |                                |  |
| Tests   |   | General isolation and characterisation of aerobic, microaerophilic and anaerobic micro-organisms (qualitative).   |                                |  |
| Measurement units                               | Growth detected   | or not detected.  |                                |  |
| Biological reference units                      |   |   |                                |  |
| Turnaround time                                 | 4 days.   |   |                                |  |
| Availability                                    | Routine hours.  |   |                                |  |
| Clinical information                            |   |   |                                |  |
| Factors known to significant affect the results | Delays in transpo   | ortation may affect the recov   | very of pathogens.             |  |

### **Back to index**

Authorised by: T Carey/C Frearson DCN: MIC-P-006-13.2 Date of issue: 12/12/2025 Page 167 of 187



# Tips/intravascular cannulae

| Examinations offered                            |   |   |                        |  |  |
|---|---|---|------------------------|--|--|
| Collection container                            | Specimen  | Sample volume   | Request form           |  |  |
|   | Line tips (eg CVP or<br>Hickman lines)  | End of cannulae tip (2 – 5 cm in length)  |                        |  |  |
| QED connect than 1 Q 2                          | Swab of cannula insertion sites (Amies transport swab)  |   |                        |  |  |
| Sample instructions                             |   |   |                        |  |  |
| Collection                                      | Tips are preferable to Disinfect the skin aro   | Optimally collected before antimicrobial therapy started.  Tips are preferable to swabs.  Disinfect the skin around the cannula entry site, remove cannula using aseptic technique, and cut off 2 – 5 cm of the tip into an appropriate CE marked leak                                |                        |  |  |
| Specimen transport                              | Specimens should be working hours.  | sent to the laboratory witho  | ut delay during normal |  |  |
| Storage requirements                            |   | Outside of normal working hours samples should be refrigerated.  Delays of over 48 hours are undesirable.   |                        |  |  |
| Special requirements                            | Where line related in<br>and peripheral taken<br>Do NOT send line tips<br>NOT suspected.<br>Urinary catheter tips | Cannulae should only be sent if there is evidence of infection.  Where line related infection/sepsis suspected, send blood cultures (central and peripheral taken simultaneously), prior to line removal.  Do NOT send line tips if they are being removed routinely and infection is |                        |  |  |
| Laboratory information                          | 3,  |   |                        |  |  |
| Tests   |   | General isolation and characterisation of aerobic, microaerophilic and anaerobic micro-organisms (qualitative).   |                        |  |  |
| Measurement units                               | Growth detected or r  | Growth detected or not detected.  |                        |  |  |
| Biological reference units                      |   |   |                        |  |  |
| Turnaround time                                 | 4 days.   |   |                        |  |  |
| Availability                                    | Routine hours.  |   |                        |  |  |
| Clinical information                            |   |   |                        |  |  |
| Factors known to significant affect the results | Delays in transporta  | tion may affect the recovery o  | of pathogens.          |  |  |

### **Back to index**

Authorised by: T Carey/C Frearson DCN: MIC-P-006-13.2 Date of issue: 12/12/2025

THIS DOCUMENT IS UNCONTROLLED WHEN PRINTED

Page 168 of 187



# **Tissues and biopsies**

| Examinations offered                            |                                       |  |                             |  |
|---|---------------------------------------|--|-----------------------------|--|
| Collection container                            | Specimen                              | Sample volume  | Request form                |  |
|   | Tissue and biopsies                   |  |                             |  |
| Sample instructions                             |                                       |  |                             |  |
| Collection                                      | Optimally collected                   | before antimicrobial there   | apy started.                |  |
| Specimen transport                              | Specimens should working hours.       | be sent to the laboratory w  | rithout delay during normal |  |
| Storage requirements                            |                                       | Outside of normal working hours samples should be refrigerated.  Delays of over 48 hours are undesirable.  |                             |  |
| Special requirements                            | If specimen is small                  | I place it in sterile water to   | prevent desiccation.        |  |
| Laboratory information                          |                                       |  |                             |  |
| Tests   | quantitative).<br>General isolation a | Microscopy for detection of Gram positive and negative bacteria (semi-<br>quantitative).  General isolation and characterisation of aerobic, microaerophilic and<br>anaerobic micro-organisms (qualitative). |                             |  |
| Measurement units                               | Growth detected o                     | Growth detected or not detected.   |                             |  |
| Biological reference units                      |                                       |  |                             |  |
| Turnaround time                                 | 4 days, plus 2 days                   | 4 days, plus 2 days for enrichment culture.  |                             |  |
| Availability                                    | Routine hours and                     | Routine hours and on-call.   |                             |  |
| Clinical information                            |                                       |  |                             |  |
| Factors known to significant affect the results |                                       | d in formal-saline are not s<br>ation may affect the recover   |                             |  |

### **Back to index**

Authorised by: T Carey/C Frearson

Date of issue: 12/12/2025

DCN: MIC-P-006-13.2 Page 169 of 187



## **Toxoplasma diagnostic**

Toxoplasma confirmation would only be performed on a Toxoplasma IgG positive sample. The test consists of Toxoplasma dye test and Toxoplasma IgM.

| Examinations offered                           |                                |  |                               |  |
|--|--------------------------------|--|-------------------------------|--|
| Collection container                           | Specimen                       | Sample volume  | Request form                  |  |
|  | Venous blood                   | 2 – 6 mls  |                               |  |
| Sample instructions                            |                                |  |                               |  |
| Collection                                     | No special rec                 | quirements.  |                               |  |
| Specimen transport                             | Specimens shours working hours |  | y without delay during normal |  |
| Storage requirements                           | Outside of no                  | rmal working hours samples   | should be refrigerated.       |  |
| Special requirements                           |                                | Clinical details are essential for processing.  Please indicate if patient is pregnant and gestation with contact history.   |                               |  |
| Laboratory information                         |                                |  |                               |  |
| Tests  | laboratory on parameters a     | This test is processed at an external reference centre. Contact the laboratory on Telephone 01793 604798 if further details are required. The parameters analysed in this test and any reference ranges for these parameters will be displayed on the report when it is returned to the requestor. |                               |  |
| Measurement units                              |                                |  |                               |  |
| Biological reference units                     |                                |  |                               |  |
| Turnaround time                                | 14 days.                       |  |                               |  |
| Availability                                   | Routine hours                  | Routine hours.   |                               |  |
| Clinical information                           |                                |  |                               |  |
| Factors known to significar affect the results | Haemolysis.                    | Haemolysis.  |                               |  |

#### **Back to index**

Authorised by: T Carey/C Frearson
Date of issue: 12/12/2025

THIS DOCUMENT IS UNCONTROLLED WHEN PRINTED

DCN: MIC-P-006-13.2 Page 170 of 187



## **Toxoplasma IgG (immunity)**

In addition, if congenital infection suspected – amniotic fluid, fetal whole blood, neonatal cord blood can be tested – discuss with Consultant Microbiologist.

| Examinations offered                           |                                 |  |              |  |
|--|---------------------------------|--|--------------|--|
| Collection container                           | Specimen                        | Sample volume  | Request form |  |
|  | Venous blood                    | 2 – 6 mls  |              |  |
| Sample instructions                            |                                 |  |              |  |
| Collection                                     | No special requirer             | ments.   |              |  |
| Specimen transport                             | Specimens should working hours. | Specimens should be sent to the laboratory without delay during normal working hours.  |              |  |
| Storage requirements                           | Outside of normal               | Outside of normal working hours samples should be refrigerated.  |              |  |
| Special requirements                           |                                 | Clinical details and date of onset are essential for processing.  Please indicate if patient is pregnant and gestation, with date of contact and exposure history. |              |  |
| Laboratory information                         |                                 |  |              |  |
| Tests  | Detection of Toxop              | Detection of Toxoplasma gondii IgG (qualitative).  |              |  |
| Measurement units                              |                                 |  |              |  |
| Biological reference units                     |                                 |  |              |  |
| Turnaround time                                | 7 days.                         | 7 days.  |              |  |
| Availability                                   | Routine hours.                  | Routine hours.   |              |  |
| Clinical information                           |                                 |  |              |  |
| Factors known to significan affect the results | Haemolysis.                     |  |              |  |

#### **Back to index**

Authorised by: T Carey/C Frearson

Date of issue: 12/12/2025

DCN: MIC-P-006-13.2 Page 171 of 187

### **Urines (microscopy and culture)**

Send sample for microscopy and culture if clinically suspected UTI and any of the following:

- Pregnancy
- Signs of systemic or upper urinary tract infection (e.g.: fever, loin pain, renal angle tenderness)
- Immunocompromised or diabetic patients
- Male patients
- Children
- Female patients ≥ 65 years old
- Anatomically abnormal urinary/renal tract
- Failure to respond to empirical therapy
- History of recurrent UTIs (≥ 3 episodes/year)
- Patients with indwelling catheters ONLY if symptoms or signs of infection.

| <b>Examinations offered</b> |                                   |                    |  |
|-----------------------------|-----------------------------------|--------------------|--|
| Collection container        | Specimen                          | Sample volume      | Request form   |
| Book ahea - whitu           | Urine, MSU, Bladder<br>urine, SPA | Minimum volume 5ml |  |
| Urino Z                     | Urine, MSU, Bladder<br>urine, SPA | Minimum volume 1ml | The state of the |
| Sample instructions         |                                   |                    | 11 (2000) 1 (2000)   |

Optimally collected before antimicrobial therapy started.

Fill the container to the marked line (adults approx 20-30 ml). A minimum of 5ml is required.

If less than 5ml of urine is anticipated, or collecting from a child, collect in to a white topped universal container.

MSU and clean catch urines are the most commonly collected specimens and are recommended for routine use.

#### Mid-stream specimen (MSU):

#### Collection

Wash the genital area in women with soap and water or sterile saline. In men, retract the foreskin and wash skin surrounding the meatus with soap and water or sterile saline

Ask patient to pass a small amount of urine into a bottle, bedpan or toilet. Using a clean container collect a mid-stream specimen of urine

Transfer the specimen into a sterile red-topped boric acid container (fill to marked line, minimum of 2ml) and send to the laboratory.

#### Catheter Specimen of Urine (CSU

Do not use dipsticks for screening for infection, this invariably gives a positive result due to catheter colonisation.

Request culture only when there are symptoms of infection – document this

Authorised by: T Carey/C Frearson DCN: MIC-P-006-13.2 Date of issue: 12/12/2025

Page 172 of 187

| utine hours and on-call (by arrangement).  cteria multiply rapidly in urine – delays in transportation may affect the   |  |
|---|--|
| utine hours and on-call (by arrangement).   |  |
|   |  |
| lays.   |  |
|   |  |
| Il count x 10 <sup>6</sup> /l   |  |
| esence of white blood cells, red blood cells, epithelial cells and casts (semi-<br>antitative).<br>neral isolation and characterisation of aerobic, microaerophilic and<br>aerobic micro-organisms (qualitative).   |  |
|   |  |
| special requirements.   |  |
| Outside of normal working hours samples should be refrigerated.  Delays of over 48 hours are undesirable.   |  |
| ease note that urinary catheter tips will not be processed as they do not by  |  |
| r <u>Schistosomiasis</u> ; Sample collected between 1000 and 1400. Alternatively 4hr collection of terminal samples of urine may be obtained.   |  |
| r Mycobacteria; early morning urine on three consecutive days in 3 x 250ml ntainer.   |  |
| prapubic aspirate (SPA) A is seen as the "gold standard" but is usually reserved for clarification of uivocal results from voided urine in infants and small children. Before SPA attempted it is preferable to use ultrasound guidance to determine the esence of urine in the bladder.  |  |
| arly on the request form.  Ilect the specimen from the catheter self-sealing rubber sampling port ng an aseptic technique. The sample must not be obtained from the bag sinfect the port using an alcohol or Chlorhexidine 2% swab, allow to the rt to dry then use a sterile needle and syringe withdraw urine.  Inster the specimen into a sterile red-topped boric acid container (fill to arked line, minimum of 2ml) and send to the laboratory. |  |
|   |  |

## **Back to index**

Authorised by: T Carey/C Frearson DCN: MIC-P-006-13.2
Date of issue: 12/12/2025 Page 173 of 187



## Varicella zoster virus (VZV) IgG (immunity)

To determine past chickenpox infection (or vaccination); indicates immunity.

Chickenpox/zoster contact in susceptible persons (e.g. pregnant, immunocompromised, neonates): If an urgent VZV IgG is required after exposure, the laboratory must be notified, and information provided on nature of contact and date of exposure.

| Examinations offered                           |                                 |   |   |  |
|--|---------------------------------|---|---|--|
| Collection container                           | Specimen                        | Sample volume   | Request form  |  |
|  | Venous blood                    | 2 – 6 mls   |   |  |
| Sample instructions                            |                                 |   |   |  |
| Collection                                     | No special require              | ements.   |   |  |
| Specimen transport                             | Specimens should working hours. | l be sent to the laboratory   | without delay during normal                                 |  |
| Storage requirements                           | Outside of norma                | l working hours samples sh  | nould be refrigerated.                                      |  |
| Special requirements                           |                                 | Clinical details and date of onset are essential for processing.  Please indicate if patient is pregnant and gestation with contact history.                      |   |  |
| Laboratory information                         |                                 |   |   |  |
| Tests  | Detection of VZV                | Detection of VZV IgG (quantitative).  |   |  |
| Measurement units                              | IU/mL                           | IU/mL   |   |  |
| Biological reference units                     | 100-150 IU/mL –                 | <100 IU/mL - No evidence of immunity<br>100-150 IU/mL – Evidence of immunity in the immunocompetent<br>>150 IU/mL – Evidence of immunity in the immunocompromised |   |  |
| Turnaround time                                | 7 days.                         | 7 days.   |   |  |
| Availability                                   | Routine hours.                  | Routine hours.  |   |  |
| Clinical information                           |                                 |   |   |  |
| Factors known to significan affect the results | •                               | tablished. Results in immu  | in newborns or in vaccinees<br>nosuppressed subjects should |  |

#### **Back to index**

Authorised by: T Carey/C Frearson
Date of issue: 12/12/2025

THIS DOCUMENT IS UNCONTROLLED WHEN PRINTED

Page 174 of 187

DCN: MIC-P-006-13.2



# Varicella zoster virus (VZV) PCR

Diagnosis of acute disease.

| Examinations offered  |                                      |  |  |  |
|---|--------------------------------------|--|--|--|
| Collection container  | Specimen                             | Sample volume  | Request form   |  |
|   | EDTA blood                           | 2 – 6 mls  |  |  |
| D-B-  | Lesion swab (virus transport medium) |  |  |  |
| Sample instructions   |                                      |  |  |  |
| Collection  | Send a viral (gre<br>membranes.      | en top) swab of vesicle fluid  | l or affected mucous   |  |
| Specimen transport  | Specimens shou working hours.        | ld be sent to the laboratory   | without delay during normal  |  |
| Storage requirements  | Outside of norm                      | al working hours samples sl  | hould be refrigerated.   |  |
| Special requirements  |                                      | Clinical details are essential for processing.  For VZV in CSF refer to CSF (Cerebro-spinal fluid) virology PCR.   |  |  |
| Laboratory information  |                                      |  |  |  |
| Tests   | laboratory on Te                     | This test is processed at an external reference centre. Contact the laboratory on Telephone 01793 604798 if further details are required. The parameters analysed in this test and any reference ranges for these parameters will be displayed on the report when it is returned to the requestor. |  |  |
| Measurement units   |                                      |  |  |  |
| Biological reference units  |                                      |  |  |  |
| Turnaround time   | 14 days.                             |  |  |  |
| Availability  | Routine hours.                       | Routine hours.   |  |  |
| Clinical information  |                                      |  |  |  |
| False negatives may occur for a variety of reasons, for example inappropriate timing of sample collection, inappropriate sample, prese of organism below the detectable limit of the assay. Towards the limit detection of an assay sampling variation will result in lower reproducible New and emerging variants may also occur which may not be detected this assay. |                                      |  | nappropriate sample, presence<br>ne assay. Towards the limit of<br>I result in lower reproducibility |  |

### **Back to index**

Authorised by: T Carey/C Frearson DCN: MIC-P-006-13.2 Date of issue: 12/12/2025 Page 175 of 187



# Viral haemorrhagic fever (VHF)

Used to determine past or current infection.

| Examinations offered                              |   |   |  |  |
|---|---|---|--|--|
| Collection container                              | Specimen  | Sample volume   | Request form   |  |
|   | EDTA blood  | 2 – 6 mls   |  |  |
| Sample instructions                               |   |   |  |  |
| Collection  | first discussin<br>VHF Policy).<br>Refer to curre | g with the Consultant Microbiont ACDP guidance.   | O NOT TAKE SAMPLES without blogist (refer to the GWH Trust |  |
| Specimen transport                                | defined in the<br>Specimens sh<br>working hours   | GWH Trust Specimen Transpool ould be sent to the laboratory   | without delay during normal                                |  |
| Storage requirements                              | Outside of no                                     | rmal working hours samples sh   | nould be refrigerated.                                     |  |
| Special requirements                              | the Microbiol<br>been perform<br>Scientist has b  | Samples from a patient suspected of having VHF WILL NOT be processed by the Microbiology Department until a diagnosis VHF risk assessment has been performed by the Consultant Microbiologist, and the Biomedical Scientist has been authorised to proceed with processing the sample by the Consultant Microbiologist. |  |  |
| Laboratory information                            |   |   |  |  |
| Tests   | laboratory on parameters a                        | This test is processed at an external reference centre. Contact the laboratory on Telephone 01793 604798 if further details are required. The parameters analysed in this test and any reference ranges for these parameters will be displayed on the report when it is returned to the requestor.                      |  |  |
| Measurement units                                 |   |   |  |  |
| Biological reference units                        |   |   |  |  |
| Turnaround time                                   | 14 days.  |   |  |  |
| Availability                                      | Routine hours                                     | Routine hours.  |  |  |
| Clinical information                              |   |   |  |  |
| Factors known to significar<br>affect the results | inappropriate  ntly of organism b  detection of a | elow the detectable limit of th n assay sampling variation will   | nappropriate sample, presence                              |  |

**Back to index** 

Authorised by: T Carey/C Frearson DCN: MIC-P-006-13.2 Date of issue: 12/12/2025 Page 176 of 187



### Wounds (skin, superficial, non-surgical)

Swabs of acute wounds will be routinely cultured for primary pathogens i.e. Staph aureus,  $\beta$ -haemolytic streptococci. Where other potential pathogens are isolated in predominant or pure culture they will be reported. Growth of bacteria alone does not indicate the presence of infection, unless other factors such as inflammation, pus, erythema or fever are exhibited.

Chronic wounds are invariably colonised with bacteria. When processed, primary pathogens, potential pathogens in predominant or pure culture are reported as above as well as organisms likely to be simply colonising the wound (e.g. skin flora and faecal flora). This is because chronic wound management is influenced by degree of wound colonisation. Where heavy colonisation is identified this is invariably an indication for enhanced local wound care and not an immediate indication for systemic antibiotics.

| Examinations offered       |   |   |  |  |
|----------------------------|---|---|--|--|
| Collection container       | Specimen  | Sample volume   | Request form   |  |
|                            | Collection of pus or exudate  | Minimum volume 1ml of pus   | The second secon |  |
| QZD Cohntood Burn (Q) (Q)  | Amies transport swab  | Swabs should be well soaked in pus  |  |  |
| Sample instructions        |   |   |  |  |
| Collection                 | Sample a represent unlikely to yield the If specimens are tak and the ulcer should aspiration of the ed irrigation-aspiration   | before antimicrobial therapy ative part of the lesion. Swab causative pathogen. ten from ulcers, the debris on d be cleaned with saline. A big ge of the wound should then a method may be preferred. | the ulcer should be removed opsy or, preferably, a needle be taken. A less invasive  |  |
| Specimen transport         | Specimens should be sent to the laboratory without delay during normal working hours.   |   |  |  |
| Storage requirements       |   | Outside of normal working hours samples should be refrigerated.  Delays of over 48 hours are undesirable.   |  |  |
| Special requirements       | Important to indica   | te site and nature of lesion.   |  |  |
| Laboratory information     |   |   |  |  |
| Tests                      | Microscopy for detection of gram positive and negative bacteria (semi-quantitative) (pus).  General isolation and characterisation of aerobic, microaerophilic and anaerobic micro-organisms (qualitative). |   |  |  |
| Measurement units          | Growth detected or not detected.  |   |  |  |
| Biological reference units |   |   |  |  |
| Turnaround time            | 4 days, plus 2 days f   | or enrichment culture (pus).  |  |  |
| Availability               | Routine hours and o   | on-call (pus).  |  |  |

Authorised by: T Carey/C Frearson DCN: MIC-P-006-13.2
Date of issue: 12/12/2025 Page 177 of 187



| Clinical information           |   |
|--------------------------------|---|
| Factors known to significantly | The recovery of anaerobes is compromised if transport time exceeds 3 hours. |
| affect the results             | Delays in transportation may affect the recovery of pathogens.              |

### **Back to index**

Authorised by: T Carey/C Frearson DCN: MIC-P-006-13.2
Date of issue: 12/12/2025 Page 178 of 187



#### **Zika Virus**

Zika virus testing is only available via PHE's Rare and Imported Pathogens Laboratory (RIPL). Please read PHE's Zika virus sample testing advice (link below) before collecting and sending a specimen to the laboratory.

| Examinations offered                            |   |  |                           |  |
|---|---|--|---------------------------|--|
| Collection container                            | Specimen                                | Sample volume  | Request form              |  |
|   | Venous blood                            | 2 – 6 mls  |                           |  |
|   | Urine (within 21 days of symptom onset) | 1-5 mls  |                           |  |
| Sample instructions                             |   |  |                           |  |
| Collection                                      |   | Zika virus sample testing ac<br>ding a specimen to the labo  |                           |  |
| Specimen transport                              |   | lo meet testing requiremer<br>delay during normal work   |                           |  |
| Storage requirements                            | Outside of normal                       | Outside of normal working hours samples should be refrigerated.  |                           |  |
| Special requirements                            | Comprehensive clipprocessing.           | Comprehensive clinical details, including travel history, are essential for processing.  |                           |  |
| Laboratory information                          |   |  |                           |  |
| Tests   | laboratory on Tele<br>parameters analys | This test is processed at an external reference centre. Contact the laboratory on Telephone 01793 604798 if further details are required. The parameters analysed in this test and any reference ranges for these parameters will be displayed on the report when it is returned to the requestor. |                           |  |
| Measurement units                               | N/A                                     |  |                           |  |
| Biological reference units                      | N/A                                     | N/A  |                           |  |
| Turnaround time                                 | 14 days.                                | 14 days.   |                           |  |
| Availability                                    | Routine hours.                          |  |                           |  |
| Clinical information                            |   |  |                           |  |
| Factors known to significate affect the results |   | t be taken within 21 days c  | of the onset of symptoms. |  |

Please refer to PHE's <u>Zika virus</u>: sample testing advice for further information.

#### **Back to index**

Authorised by: T Carey/C Frearson DCN: MIC-P-006-13.2 Date of issue: 12/12/2025

THIS DOCUMENT IS UNCONTROLLED WHEN PRINTED

Page 179 of 187



#### 14 REFERENCE LABORATORIES

As part of the testing process, it may be necessary to refer some, or all, of the sample to an external reference laboratory which has the necessary expertise. In some cases there will be only one specialist laboratory in the whole country which performs a particular test, meaning using referral laboratories is essential.

There is a detailed policy in place to govern how we choose these referral laboratories. They are selected for their expertise and their quality standards, and are regularly checked for their accreditation status.

The name of the reference laboratory used will be indicated on the Microbiology report. The reference laboratories currently used are:

| Laboratory                     | Address                                     | UKAS accreditation               | Examinations offered          |
|--------------------------------|---|----------------------------------|-------------------------------|
| Anaerobe reference unit (ARU   | Public Health Wales Microbiology<br>Cardiff | UKAS 9510                        | Anaerobe identification of    |
|                                |   |                                  | Bacteroides, Clostridia,      |
|                                | University Hospital of Wales                |                                  | Fusobacteria, Actinomyces spp |
|                                | Heath Park                                  |                                  |                               |
|                                | Cardiff                                     |                                  |                               |
|                                | CF14 4XW                                    |                                  |                               |
| Animal and Plant Health Agency | Virology Department                         | UKAS 1769                        | Diagnostic service for Rabies |
|                                | Woodham Lane                                | Accredited to ISO/IEC 17025:2005 |                               |
|                                | New Haw                                     |                                  |                               |
|                                | Addleston                                   |                                  |                               |
|                                | Surrey                                      |                                  |                               |
|                                | KT15 3NB                                    |                                  |                               |
| Antimicrobial reference unit   | North Bristol NHS Trust                     | UKAS 8099                        | Antimicrobial assay service   |
|                                | Southmead Hospital                          |                                  |                               |
|                                | Southmead Road                              |                                  |                               |
|                                | Bristol                                     |                                  |                               |
|                                | BS10 5NB                                    |                                  |                               |
| Barts Health NHS Trust         | Diagnostic Virology Barts Health NHS        | UKAS 8285                        | HIV-2 viral load              |
|                                | Trust 3 rd Floor Pathology and              |                                  |                               |
|                                | Pharmacy Building 80 Newark Street          |                                  |                               |

Authorised by: T Carey/C Frearson DCN: MIC-P-006-13.2
Date of issue: 12/12/2025 Page 180 of 187

| Laboratory  | Address  | UKAS accreditation   | Examinations offered  |
|---|--|--|---|
|   | Whitechapel London E1 2ES  |  |   |
| Clostridium difficile ribotyping network (CDRN)                   | Leeds General Infirmary Old Medical School Great George Street LS1 3EX   | UKAS 9862  | Clostridium difficile culture and ribotyping  |
| Cryptosporidium reference unit (CRU)                              | Public Health Wales Microbiology ABM, Singleton Hospital Sgeti Road Swansea SA2 8QA                                    | UKAS 9510  | Cryptosporidium typing and confirmation services  |
| Colindale Sequencing Labaratory (CSL)                             | UK Health Security Agency<br>61 Colindale Avenue<br>London<br>NW9 5HT  | UKAS 8727  | Genome sequencing, transcription and proteogenome analysis, pathogen discovery and metagenomics |
| Great Ormond Street Hospital for<br>Children NHS Foundation Trust | Bacteriology Laboratory Level 4 Camelia Botnar Laboratories Great Ormond Street London WC1N 3JH                        | UKAS 8675  | Diagnostic service for Whipples disease, 16s PCR  |
| Imperial College London   | Molecular Diagnostic Unit, Imperial<br>College London,<br>St Mary's College,<br>Norfolk Place, London W2 1PG           | UKAS 9003  | HIV resistance testing  |
| Insect Research and Development, Cambridge                        | 6 Quy Court Colliers Lane Stow - cum- Quy Cambridge CB25 9AU   | No accreditation status Laboratory work recognised in civil litigation and criminal prosecutions, or defence | Identification of insect and animal foreign bodies  |
| <u>Liverpool Clinical Laboratories</u>                            | Liverpool Clinical Laboratories<br>Royal Liverpool and Broadgreen<br>Univerisity Hospitals NHS Trust<br>Prescot Street | UKAS 9755  | Brucella Serology   |

Authorised by: T Carey/C Frearson

Date of issue: 12/12/2025

THIS DOCUMENT IS UNCONTROLLED WHEN PRINTED

DCN: MIC-P-006-13.2

Page 181 of 187

| Laboratory                         | Address                            | UKAS accreditation                | Examinations offered                  |
|------------------------------------|------------------------------------|-----------------------------------|---------------------------------------|
|                                    | Liverpool                          |                                   |                                       |
|                                    | L7 8XP                             |                                   |                                       |
| <u>Lab 21</u>                      | Park House                         | UKAS 9325                         | Therapeutic drug monitoring for HIV   |
|                                    | Winship Road                       |                                   | patients                              |
|                                    | Milton                             |                                   |                                       |
|                                    | Cambridge                          |                                   |                                       |
|                                    | Cambridgeshire                     |                                   |                                       |
|                                    | CB24 6BQ                           |                                   |                                       |
| Meningococcal reference unit (MRU) | Clinical Sciences Building 2       | UKAS 10175                        | Meningococcal PCR and Serology        |
|                                    | Manchester Royal Infirmary         |                                   | Pneumococcal PCR                      |
|                                    | Oxford Road                        |                                   |                                       |
|                                    | Manchester                         |                                   |                                       |
|                                    | M13 9WL                            |                                   |                                       |
| Mycology reference laboratory      | Infection Sciences Laboratory      | UKAS 8043                         | Laboratory services for the diagnosis |
|                                    | Pathology Building                 |                                   | and management of fungal              |
|                                    | Southmead Hospital                 |                                   | infections, including culture,        |
|                                    | Southmead Road                     |                                   | susceptibility testing and serology   |
|                                    | Westbury on Trym                   |                                   | and PCR testing                       |
|                                    | Bristol                            |                                   |                                       |
|                                    | BS10 5NB                           |                                   |                                       |
|                                    | United Kingdom                     |                                   |                                       |
| National CJD research and          | Western General Hospital           | Laboratory work recognised by     | Diagnostic service for CJD            |
| surveillance unit (NCJDRSU)        | Crewe Road                         | WHO, inspected by HSE and perform |                                       |
|                                    | Edinburgh EH4 2XU                  | well in European EQA schemes      |                                       |
| Health Service Laboratories        | The Department of Clinical         | UKAS 9702                         | Laboratory reference services for     |
| <u>Parasitology</u>                | Parasitology                       |                                   | parasites and amoeba                  |
|                                    | The Hospital for Tropical Diseases |                                   | Various parasitology serology         |
|                                    | 3rd Floor Mortimer Market Centre   |                                   | CMV avidity testing                   |
|                                    | Mortimer Market                    |                                   |                                       |
|                                    | London                             |                                   |                                       |
|                                    | WC1E 6JB                           |                                   |                                       |
| North Bristol NHS Trust            | Infection Sciences Laboratory      | UKAS 8043                         | Viral PCR (Blood and CSF), Syphilis   |

Authorised by: T Carey/C Frearson DCN: MIC-P-006-13.2
Date of issue: 12/12/2025 Page 182 of 187

| Laboratory                                    | Address   | UKAS accreditation | Examinations offered   |
|---|---|--------------------|--|
| Infection Sciences Laboratory                 | Pathology Building Southmead Hospital Southmead Road Westbury on Trym Bristol BS10 5NB                          |                    | RPR and confirmation, Chlamydia<br>Serology  |
| Oxford University Hospitals NHS Trust         | Department of Microbiology<br>Level 6/7, John Radcliffe Hospital<br>Headley Way<br>Headington<br>Oxford OX3 9DU | UKAS               | Bacteriology: Investigation of Mycobacterium infections and sputum culture. Mycology: Dermatophyte microscopy and culture Serology: BBV confirmation, hepatitis E, Parvovirus, ASO titre, Rubella IgM, Beta-Glucan PCR: hepatitis B, hepatitis C, hepatitis E, CMV, EBV, BKV, Adenovirus |
| Rare and imported pathogens laboratory (RIPL) | Public Health England Manor Farm Road Porton Down Salisbury Wiltshire SP4 0JG                                   | UKAS 9304          | Diagnosis and management of unusual or hazardous infectious diseases present in the UK or imported into the country, including Lyme immunoblot and Leptospirosis.  |
| Oxford Diagnostics Laboratories Ltd           | UK Oxford Diagnostic Laboratories 143 Park Drive Milton Park Abingdon Oxfordshire OX14 4SE                      | UKAS 4066          | Referral laboratory for analysis based on the T-SPOT technology using a standardised ELISPOT platform.   |
| Toxoplasma reference laboratory (TRL)         | Department of Microbiology<br>Singleton Hospital<br>Sgeti   | UKAS 9510          | Diagnostic service for toxoplasma infection  |

Authorised by: T Carey/C Frearson DCN: MIC-P-006-13.2
Date of issue: 12/12/2025 Page 183 of 187



| Laboratory                         | Address                   | UKAS accreditation | Examinations offered                |
|------------------------------------|---------------------------|--------------------|-------------------------------------|
|                                    | Swansea                   |                    |                                     |
|                                    | SA2 8QA                   |                    |                                     |
| UK Health Security Agency          | UK Health Security Agency | UKAS 8197          | National reference laboratory for   |
| Bacteriology Reference Laboratory  | 61 Colindale Avenue       |                    | specialist testing, bacterial       |
|                                    | London                    |                    | characterisation and susceptibility |
|                                    | NW9 5HT                   |                    | testing.                            |
| UK Health Security Agency Virology | UK Health Security Agency | UKAS 8825          | Clinical advice and laboratory      |
| Reference Department               | 61 Colindale Avenue       |                    | investigations for a wide range of  |
|                                    | London                    |                    | viral human infections.             |
|                                    | NW9 5EQ                   |                    |                                     |
| University Hospital                | Microbiology Department   | UKAS 8403          | HSV type specific serology          |
| Southampton NHS Foundation Trust   | Tremona Road              |                    |                                     |
|                                    | Southampton               |                    |                                     |
|                                    | Hampshire                 |                    |                                     |
|                                    | SO16 6YD                  |                    |                                     |

Authorised by: T Carey/C Frearson DCN: MIC-P-006-13.2
Date of issue: 12/12/2025 Page 184 of 187

#### 15 PATIENT CONSENT DISCLOSURE

#### 15.1 Laboratory Policy on protection of personal information

The Microbiology Department regards the lawful and correct treatment of patients' personal information as vital to successful operations and to maintaining the confidence of users of the service. Request form information may additionally be used for billing purposes, financial audit, resource management and utilization reviews.

Our policy is that we will treat personal information lawfully and correctly in adherence to the principles of data protection described in the <u>Data Protection Act 1998</u>.

As part of the Great Western Hospital NHS Foundation Trust we also work to its governance and data protection policies which incorporate the Data Protection Act, the <u>Department of Health Confidentiality NHS Code of Practice</u>, and <u>Department of Health Security Management NHS Code of Practise</u>, as listed below:

- Information Governance Strategy and Policy
- Information Protection and Security Policy
- Information Asset Register Procedure
- Data Protection Policy
- Data Transfer Policy
- Data Quality Policy
- Code of Conduct for Employees in Respect of Confidentiality Policy
- Freedom of Information Requests Procedure

All the above Trust policy documentation is available upon request to the Laboratory.

#### 15.2 Patient consent

Consent to a specimen being taken and analysed is implied by the patient presenting to the point of specimen collection. The responsibility for obtaining informed consent for the tests(s) resides with the individual ordering the test. Informed consent should cover all the tests being done, implications of their results and disclosure of clinical and personal details to personnel (in the requesting organisation and any other healthcare organisations involved in providing the test). Special procedures, including more invasive procedures, or those with an increased risk of complications to the procedure, will need a more detailed explanation and, in some cases, written consent. Patients in a hospital bed should normally be given the opportunity to refuse.

The laboratory procedures the laboratory assumes that patient consent has been obtained for the investigations requested, as the patient has presented themselves and willingly submitted to the usual collecting procedure.

Authorised by: T Carey/C Frearson DCN: MIC-P-006-13.2 Date of issue: 12/12/2025 Page 185 of 187



The exception to this being antenatal screening requests, which must be accompanied by a form clearly indicating that blood borne virus testing has been accepted or declined by the patient and signed by the requesting clinician.

In emergency situations consent may not be possible. Under these circumstances the laboratory will carry out the necessary investigations provided they are in the patient's best interest.

#### 15.3 Medico-legal samples

Any specimens submitted for medico – legal purposes should have documentation accompanying these specimens to provide an unbroken chain of evidence.

#### 15.4 The Human Tissue Act

Great Western Hospitals NHS Foundation Trust are licensed by the Human Tissue Act (HTA) to undertake examinations of postmortem samples submitted by clinical consultants and pathologists. Under the license, the samples may be retained until the examination has been completed and in line with the sample retention policies.

It is the obligation of the requesting clinician or pathologist to ensure that examination of samples they submit have been requested by the coroner or appropriate consent has been obtained from the deceased person or their relatives.

Only the specific examinations requested by the sending clinician or pathologist may be performed. It must be assumed that the coroner has not asked for any other examinations to be performed, and consent has not been obtained for any other work and so this would be outside the scope of the licence. If additional work on samples from the deceased is thought necessary by the Medical Microbiologist, they must obtain written confirmation of consent from the sending departments.

All relevant material is stored securely and under conditions which maintain the integrity of the sample if possible and confidentiality is maintained in compliance with Caldicott principles, as are all samples received. Following processing, relevant material is only retained for the period specified by the retention policy.

### 15.5 Duty of Candor

The Microbiology Department ensures full compliance with the Duty of Candour policy as set out by the Trust. The Department is deeply committed to prioritising transparency, honesty, and accountability in all interactions with patients and healthcare providers. All samples that enter the Microbiology Department are treated with the upmost respect and care. As such our team is dedicated to promptly identifying, addressing, and disclosing any issues that may arise during testing or reporting processes, ensuring that patients and clinical partners receive accurate, timely information. By upholding this commitment, we aim to continually improve our practices, enhance patient safety, and maintain the highest standards of professional integrity.

Authorised by: T Carey/C Frearson DCN: MIC-P-006-13.2 Date of issue: 12/12/2025 Page 186 of 187



#### 16 FEEDBACK ON OUR MICROBIOLOGY SERVICE AND COMPLAINTS PROCEDURE

The Microbiology Department ensures full compliance with the Duty of Candour policy, the Incident Management policy and Complaints Policy as set out by the trust. All Trust policy documentation is available upon request to the Laboratory.

All complaints or other feedback received from clinicians, patients or other parties are managed in accordance with the Trust Complaints Policy and Procedure. Feedback (including complaints) can be submitted to the laboratory via the Pathology User Satisfaction Survey (available on the intranet under Pathology), PALS or direct contact with the Microbiology Laboratory Manager, Clinical Lead and/or General Manager of Pathology and Transfusion Services.

Any suggestions from users on how this user guide could be improved would be welcome for inclusion in future editions. Please forward suggestions to the GWH.Microbiology@nhs.net. Please also let us know about new services you would wish to see developed.

Authorised by: T Carey/C Frearson DCN: MIC-P-006-13.2
Date of issue: 12/12/2025 Page 187 of 187