

The ROYAL MARSDEN



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MICROBIOLOGY

SERVICE GUIDE



8458

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1. Introduction

The Microbiology Department provides routine Microbiology, including some Viral Serology services for both Sutton and Chelsea sites, and rapid SAR-CoV-2 testing. Reference laboratories perform molecular detection services and some less common viral serology tests.

2. Accreditation

The Microbiology Department is a UKAS accredited medical laboratory No. 8458.

The For the list of examinations included, the latest Schedule of accreditation may be found on the UKAS website using the link below:

https://www.ukas.com/wp-content/uploads/schedule_uploads/00007/8458%20Medical%20Single.pdf

3. Location

The Microbiology Department is located on the ground floor of the McElwain Building on the Sutton site of the Royal Marsden NHS Foundation Trust. There is no formal Microbiology Laboratory at the Chelsea site. Microbiology forms and specialised containers can be obtained from the Blood Sciences Laboratory on the second floor of the Wallace Wing at the Chelsea site and samples delivered there for transporting to the Sutton site.

Access to the Microbiology Department is controlled via electronic locks which are opened by authorized ID badges only. There is no sample drop off facility in the McElwain Building. Samples originating from the Sutton site should be delivered to the Pathology Specimen Reception, 2nd floor, Main Building.

4. Clinical Advice, Results and Enquiries

For clinical advice and interpretation please phone the Consultant Microbiologist on the numbers below. During the Consultant Microbiologist's absence, consultant clinical advice is available via the RMH switchboard 020 8642 6011.

For results or enquiries please phone the Microbiology Laboratory on ext 3205.

	Land line	Cordless
Consultant Microbiologists	Ext 3203 Sutton Ext 1055 Chelsea Ext 1174	Sutton Ext 1055 Chelsea Ext 1174
PA to Microbiology Consultant and IPC Administrator	Ext 3248	
Deputy Director Infection Prevention and Control	Ext 3917	Ext 1409
Matron - Infection Prevention and Control	Ext 3932	Ext 1085
Lead Antimicrobial Pharmacist		Ext 1853
Microbiology Laboratory Manager	Ext 3787	Ext 1045
Microbiology Laboratory	Ext 3205	

5. Laboratory Hours and Sample Receipt

Monday to Friday	08:30 – 17:00 (samples to arrive by 16:30)
Saturday, Sunday and Public Holidays	09:00 – 12:00 (samples to arrive by 11:30)

Outside of these hours, **an emergency on call service** is available via the switchboard.

5.1 Non urgent samples

Sutton

During laboratory hours Monday – Friday

Samples should be taken to the Pathology Central Reception at Sutton or handed in directly to the Microbiology Laboratory.

Out of hours and weekends

All non-urgent samples taken out-of-hours (except blood cultures at Sutton) should be left in the fridges outside Pathology Central Reception. Blood culture bottles at Sutton should be left in the microbiology incubator outside Pathology Central Reception.

Chelsea

During laboratory hours Monday - Friday

Samples should be taken to the Blood Sciences Laboratory, Wallace Wing for transporting to Sutton at 10:30, 13:00, 15:00 and 17:00.

Out of hours and weekends

Samples should be delivered to the Blood Sciences Laboratory, Wallace Wing, where they will be packaged and transported to the Microbiology Laboratory at Sutton. Transport leaves for Sutton at 10:00 and 12:00.

Please note there are additional transport arrangements at 15:00, 18:30 and 21:30 for Biochemistry. Microbiology samples may be sent in these bags but will not be processed by the on-call Microbiology BMS without prior arrangement.

5.2 Urgent samples

Sutton

During laboratory hours Monday - Friday

During routine hours, please telephone the department before sending the sample, giving the patient and sample details, and a contact number for phoning results to. Samples must be labelled as Urgent.

Out of hours and weekends

Outside of routine hours, urgent work may be requested by contacting the on-call BMS via switchboard. Please note samples will not be processed without prior arrangement. Samples should be taken directly Pathology Central Reception and placed in the on-call fridge outside laboratory. Blood cultures should be placed in the incubator outside the laboratory.

Chelsea

During laboratory hours Monday – Friday

During routine hours, please telephone the department before sending the sample, giving

the patient and sample details, and a contact number for phoning results to. Samples must be labelled as Urgent.

If a sample cannot wait until the 10:30, 13:00 or 15:00 transports, the sample should be taken to the Blood Sciences Laboratory, Wallace Wing and the laboratory staff informed that the sample is **urgent** and requires a courier to be booked for dispatch to the Microbiology Laboratory in Sutton.

Laboratory staff will package the sample clearly, labelling it for the attention of Microbiology and organize a courier. The package will then be taken to the front desk where the courier will collect from and deliver to the Facilities Office at Sutton. The laboratory will be notified by Facilities of its arrival.

Out of hours and weekends

Samples such as CSF, sterile site fluids, pus, tissue and BALs will be processed out of hours by arrangement with the Microbiology BMS on call. All other samples including antimicrobial assays need to be discussed and arranged with the Consultant Microbiologist.

1. Phone Microbiology Biomedical Scientist (BMS) on call via switchboard to inform them that an urgent sample is to be taken and needs to be processed. Samples considered urgent are CSF, BAL, pus, tissue and fluids from sterile sites. All other samples including antibiotic assays **must** be discussed and arranged with the Consultant Microbiologist.
2. Ensure the request form and sample are completed, marked 'urgent'. Place inside a sealed specimen bag.
3. Telephone the Front Desk and ask them to arrange a courier to take an urgent sample to Microbiology in Sutton, then take the sample to the Front Desk and confirm that the courier has been arranged.
4. Once received at Sutton, switchboard will contact the on call BMS to inform them that the sample has arrived, at which point the sample can be processed.

6. Samples and Request Forms

Samples for Microbiology should arrive with a completed yellow Microbiology request form or, for MRSA screens, a pale blue MRSA request form.

6.1 Request Forms

Request forms need to be completed legibly and fully. Please ensure that the hospital number is correctly written on the form and specimen along with the patient name, date of birth and date of collection.

The request form **MUST** include:

- Patient surname and first name
- Hospital number or NHS number
- Date of birth
- Location
- Consultant
- Name and contact number of the requesting doctor or ward
- Sample date and time
- Sample type and Test request
- **Relevant clinical details** – reason for request e.g. symptoms and diagnosis and current antimicrobial therapy

6.2 Samples

Samples must be clearly labelled with the following information:

- Patient surname and first name
- Hospital number or NHS number
- Date of birth
- Sample date and time
- Sample type/site
- Serology (blood) samples **MUST** be signed by the requester

6.3 Sample Rejection

Samples may be rejected without processing for the following reasons:

- Leaking samples
- Insufficient patient identifiers
- Details on request form do not match sample details
- Insufficient clinical information e.g. wound swab – wound site is essential
- **Insufficient sample**

- Unlabeled, empty or incorrect container
- Inappropriate samples
 - Vomit
 - Urinary catheters
 - Bacterial transport swabs requesting viral tests
 - Viral transport swabs requesting bacterial investigation
 - Samples in formalin
 - Samples in unsterile containers
 - Blood samples in incorrect blood tubes

The laboratory emails a list of samples discarded the previous day to clinical teams that have requested to be on the distribution list. To request inclusion on this list please contact the laboratory.

6.4 Consent

The Trust clinical staff seeks patient consent for all examinations performed according to the Trust policy “Consent to Examination, Procedure or Treatment Policy, Royal Marsden NHS Foundation Trust Policy (325)”. This includes taking into consideration the wishes of adult patients who refuse treatment and assessing the capacity of the individual to give consent. There is guidance provided with respect to mental capacity and similarly for children. The laboratory assumes that samples delivered to the laboratories have been taken from patients who have been through a formal and ethical consenting process. However, there are some tests which require evidence that the patient has consented to testing to be written on the request form.

- Hepatitis B surface antigen testing for staff performing exposure prone procedures (EPP)
- These must be clearly identified as EPP workers
- Consent to be annotated on the request form as above.
- **Evidence of consent for HIV tests no longer must appear on the request form but the test cannot be run unless the test is requested and the form signed by the clinician.**

6.5 Patient Preparation and Patient Collected Samples

For general nursing processes, please refer to The Royal Marsden Manual of Clinical and Cancer Nursing Procedures

<https://www.rmmonline.co.uk/>

6.6 Factors affecting performance of tests




- NPA samples should reach the laboratory before 16:00 on the day obtained.
- Blood Culture bottles must not be incubated prior to arrival in the laboratory. Ideally samples should be received in the laboratory within 12 hours of being taken as delays may affect organism recovery.
- T-spot tests must be performed within 36 hours at the referral laboratory (Oxford Diagnostic Laboratories). These tests should be discussed with The Consultant Microbiologist and Microbiology to ensure delivery and testing time criteria are met. Information on the sample and request form must include date and time. Samples for T-spot testing should be received in the Microbiology Department, Sutton by 16:30, and by 14:45 at Chelsea Blood Sciences Reception to allow transport to Sutton




6.7 Specimen Containers



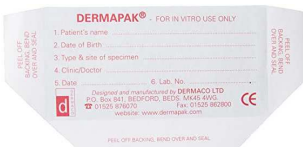

Please use the correct specimen container for the sample and investigation (see Table 1 below) and follow any transportation instructions or special handling needs in the Comments column. If you are still unsure which container to use, please telephone the department to check.




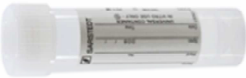

Samples received leaking or grossly contaminated on the outside of the container will not be processed unless non-repeatable.




Table 1. Sample Requirements

Sample	Container Type	Comments	Sample Volume	
Blood / bone marrow (adults)	Blood culture bottles: BacT/ALERT FA Plus (green top) BacT/ALERT SN (purple tops)		All blood culture bottles are available from Pathology Central Reception Sutton and Blood Sciences Laboratory, Chelsea. Sutton Out of Hours: Please leave bottles in the incubator outside the laboratory. Do not refrigerate	5-10mL per bottle
	Blood cultures (Paediatrics)	BacT/ALERT PF Plus (yellow top)		
Blood / bone marrow for Mycobacteria (TB) culture	Green top lithium heparin vacutainer		Please contact the Consultant Microbiologist prior to sending	3-5mL

Sample	Container Type	Comments	Sample Volume	
Blood for Serology	<p>1 x Red top vacutainer (clotted blood) 1 x 3mL Purple top vacutainer (EDTA)</p> <p>HAEM-ONC PATIENTS 3 x Red-top vacutainers 2 x 3mL Purple-top vacutainers (EDTA)</p>		<p>All HIV serology testing and serology testing associated with sharps injuries must be accompanied with evidence of consent. HBsAg requests on staff must show evidence of consent.</p>	2-6mL
Blood samples for PCR	<p>3mL Purple top vacutainer (EDTA)</p>		<p>Samples for PCR are sent to reference laboratories. CMV, EBV and Adenovirus PCRs are dispatched daily (Mon-Fri). Please contact the laboratory if PCR for other investigations are required urgently.</p>	3-5mL
Blood for T-Spot TB Test	<p>2 x Dark Green Top vacutainers (Lithium Heparin) OR 3 x Light Green Top vacutainers (Lithium Heparin)</p>		<p>These samples are sent to Oxford Diagnostic Labs, Monday to Friday. Samples MUST be dispatched on the day of collection and must be received in the laboratory before 15:00.</p>	<p>Minimum Requirements Adults and children ≥ 10 years: 6 mL Children ≥2 to <10 years: 4 mL Children <2 years: 2 mL</p>

Sample	Container Type		Comments	Sample Volume
Body fluids (e.g. CSF, chest /abdo fluids)	Dry White top Universal container (30mL)		Please provide clinical information regarding the site/source of the fluid and any significant related symptoms	As much as safely possibly up to container maximum line
Bronchoalveolar lavage (BAL)	Dry White top Universal container (30mL)		Please notify the laboratory before sending BALs	
Hair Skin Scrapings Nail Clippings	Dermapak®		For dermatophyte microscopy and culture, or scabies microscopy.	<p>Skin scraping Where possible provide enough sample to cover a five pence piece to ensure all investigations can be completed</p> <p>Nail Clippings The affected nail should be cut as far back as possible through the entire thickness and should include any crumbly material</p> <p>Hair Samples from the scalp should include skin scales and hair stumps. Cut hairs are not suitable for direct examination</p>
IV catheter tips	Dry White top Universal container (30mL)		Please state type of tip on the request form e.g. Hickman; Vascath; central line; etc.	N/A

Sample	Container Type		Comments	Sample Volume
Sputum	60mL Universal containers			≥1mL up to container maximum line
Stool	15mL container with spoon		Please do not overfill	≥2ml up to container maximum line
Swabs for bacterial investigation	Bacteriology swab (blue topped 'Trans swab' containing bacterial transport medium)		Site of wound is essential (e.g. L leg surgical wound; R eye) and condition (e.g. inflamed; suppurating; etc.)	N/A
Tissue (e.g. liver, lymph nodes, etc.)	Dry White top Universal container (30mL)		Please do not add preservatives such as formalin	Dependent on tissue. As much as can be spared for testing
Urine for MC&S or Legionella / Pneumococcal Antigens	RED TOP Dry Universal container containing boric acid (30mL) OR Dry White top Universal container (30mL)		Red Top containers: Please do not tip out the boric acid or overfill. State if MSU, CSU, etc. Underfilled boric acid universals may inhibit bacterial growth.	Red Top containers: Fill to line on container (approx. 20mL) If unable to provide sample to line (~20mL) please annotate request form explaining this.

Sample	Container Type		Comments	Sample Volume
Urine for PCR	Dry White top Universal container (30mL)		Please provide clinical information and specific PCR target information (e.g. BK Virus PCR)	Approx. 20mL
Urine for TB	Mycobacteria urine container (500mL)		Three complete void early morning urine (EMU) samples should be sent on consecutive days	If there are no appropriate containers for a whole Early Morning Urine (EMU) sample, a midstream EMU sample is an acceptable, but not ideal alternative
Vesicle fluid			Please contact Consultant Microbiologist	
Viral investigation (swabs)	Viral swabs (green topped 'Trans swabs' containing Liquid Viral transport medium)		<p>Viral transport swabs available from the Microbiology laboratory.</p> <p>Site/source of swab essential (e.g. L leg; R eye) and condition (e.g. vesicles; papular rash etc.)</p> <p>Viral target (e.g. COVID, respiratory PCR, VZV PCR) required also essential</p>	N/A

6.8 Routine Microbiology Repertoire and Turnaround Times

Please note that these turnaround times may be extended if results necessitate further investigations either in house or by external reference laboratories.

Table 2. Repertoire of in-house Microbiology Investigations

Please refer to the UKAS website for a list of which investigations are covered under the scope of accreditation to BS EN ISO 15189:2012 (see Section 2), or the Pathology Document: Pathology Tests Outside Current Scopes of Accreditation: September 2020 (Path Man74), a copy of which may be provided on request.

Sample	Test	Turnaround time (Working days)
Blood Culture / Bone marrow	Culture and sensitivity	Interim report: 2 days Final negative report: 5 days
	Fungal MIC	Additional 2 – 3 days
Bronchial lavage	Culture and Sensitivity	Final report: 10 -12 days
	Gram / ZN stain	When required: same day
Sputum	Culture and Sensitivity	Final Report: 3-8 days
Wound swabs / line exit sites / ear / nose / throat swabs	Culture and sensitivity, including fungal report	Interim: 2-4 days Final Report: 3-8 days
	Gram stain if requested	Same day
Pus	Culture and Sensitivity	Interim reports 2 – 3 days and 5 days
		Final Report: 10 -12 days

Sample	Test	Turnaround time (Working days)
CSF	Culture, microscopy and fungal report	Routine Culture: 3 - 5 days Fungal Culture: 14-16 days
Pleural /Ascitic Fluids	Microscopy Gram / ZN stain if requested Culture and sensitivity	Same day Same day Interim result: 2 & 5 days Final result: 10 -12 days
Urine	Microscopy, Culture and sensitivity (M,C&S) Please note, unless otherwise requested, ALL urine samples will be processed for M,C&S	Negative culture: 1 day Positive culture: 1 - 3 days
Stool Bacteriology	Microscopy and <i>C. difficile</i> toxin test Culture for faecal pathogens Screen for Multi-drug resistant organisms	Same working day 2-6 days
Stool Virology	Rotavirus detection Adenovirus detection Norovirus detection	Same day (Mon - Fri)
Stool Direct Microscopy	Faecal parasites	1-2 days
Stool Concentration	Faecal parasites	1-2 days
Line Tips	Culture and Sensitivity	3-6 days

Sample	Test	Turnaround time (Working days)
MRSA screen	Routine Screening culture	Negative culture- 2-3 days Positive culture- 2-4 days
Skin Scrapings/ Nail Clippings/ Hair	Microscopy	Same working day
	Fungal culture	Final result -3 weeks
Air samples / contact plates		Final result – 5 days.
Blood (Serum)	CMV IgG	5 days
Blood (Serum)	Epstein-Barr viral capsid antigen IgG and nuclear antigen IgG	5 days
Blood (Serum)	HTLV-1/2 virus antibody	5 days
Blood (Serum)	Hepatitis A virus IgM	5 days
Blood (Serum)	Hepatitis B virus surface antigen	5 days
Blood (Serum)	Hepatitis B virus core antibody (total)	5 days
Blood (Serum)	Hepatitis B virus surface antibody	5 days
Blood (Serum)	Hepatitis C virus antibody	5 days

Sample	Test	Turnaround time (Working days)
Blood (Serum)	Human Immunodeficiency Virus antigen and antibody	5 days
Blood (Serum)	Measles virus IgG	5 days
Blood (Serum)	Rubella IgG	5 days
Blood (Serum)	Treponema Screen	5 days
Blood (Serum)	Toxoplasma IgG Screen	5 days
Blood (Serum)	Varicella zoster IgG	5 days

Reference ranges and result interpretation where appropriate are included in the final report.

Uncertainty of measurement of quantity measured values is available from the laboratory upon request.

6.9 Test Specific Information

6.9.1 *Clostridioides difficile* toxin testing criteria

1. Formed stools are NOT tested for *Clostridioides difficile*.
2. Patients tested positive for CDT will not be retested within 4 weeks.
3. Patients tested negative for CDT twice within the previous 7 days, will not be retested within 7 days regardless of GDH result.

6.9.2 Mycobacterial Investigation

Samples are referred to an external laboratory for Mycobacteria culture. Positive cultures are referred for confirmation and sensitivities to the National Mycobacterial Reference Laboratory – South, Colindale.

Microscopy for acid fast bacilli is routinely performed on all Bronchial lavages received.

Microscopy for acid fast bacilli may be performed on fluid samples as an urgent request via the Consultant Microbiologist.

Any requests for PCR testing or T Spot for Mycobacteria must be discussed with the Consultant Microbiologist.

6.9.3 Interferon-gamma test (T Spot) for diagnosing tuberculosis

T Spot is not performed in house. Samples must reach the Microbiology Laboratory, Sutton by 16:00 Monday - Friday on the day of collection to ensure dispatch to the Reference Laboratory. Samples taken at the Chelsea site must arrive at the Clinical Pathology laboratory by **14:15 Monday to Friday** to guarantee transport to the Reference Laboratory via the Sutton site.

Samples must be received by the Reference Laboratory no later than 14:00 the day after venepuncture. Samples must NOT be refrigerated once taken.

6.9.4 Research Work

Samples arising from clinical research may be sent to the laboratory by prior arrangement and the laboratory should be informed when clinical trials are going to commence. All

such samples should be identified on the original request form using an orange 'clinical trials' sticker with the number of the trial.

6.9.5 Serology Testing Performed in the Microbiology Department

The Serology section within Microbiology performs a repertoire of serological tests, the majority of which support the Haemato-oncology transplant teams and Occupational Health. They include testing for Blood Borne Viruses and immunity screens for susceptibility to common viruses which may pose a threat to immuno-compromised patients.

Please note turnaround times may be extended if further tests or Reference Laboratory confirmation is required.

In the event of a sharp's incident, HIV, HBV and HCV tests are performed by Microbiology by arrangement with the Occupational Health Department. Out of hours the Consultant Microbiologist should be contacted for advice and to arrange for laboratory testing.

VZV IgG and Measles IgG can be performed urgently in the case of exposure of an immunocompromised patient to chickenpox. Please contact the Consultant Microbiologist by telephone to arrange for testing in these circumstances.

Please note that all serology requests require appropriate clinical information to ensure appropriate tests are performed. Samples received without clinical information may not be tested. HIV testing CANNOT be performed unless the request form has been signed by the requesting clinician.

6.10 Requesting Additional Tests

It may occasionally be necessary to request an additional test or investigation to a sample that has already been sent to the laboratory. All efforts will be made to accommodate this, but may be dependent on the type and age of sample and the test required.

When requesting additional tests by telephone, it is also necessary to send an additional request form to the laboratory within 24 hours for the additional test to be booked in and performed. Samples are retained in the laboratory for 2 weeks, where possible this

includes aliquots of samples sent to reference laboratories. However, there is no guarantee there will be sufficient sample for further investigations and samples such as swabs cannot be split.

Serum samples are stored by the laboratory at -80°C for 12 years. Stem cell transplant sera are kept for 30 years or for lifetime of patient.





6.11 Sample Referral

The table below shows the Reference Laboratories most frequently used by Microbiology and their stated turnaround times.








Stated turnaround times for reference laboratory investigations are taken from their arrival at the Reference Laboratory, not from arrival in the Microbiology Department at Sutton.




There may be occasions when samples may need to be sent to Reference Laboratories other than those mentioned below which may significantly delay the final result. Further information may be obtained from the Microbiology Consultant or the Laboratory Manager.







Table 3 Reference Laboratory Tests and Turnaround Times

Referral Laboratory	Investigation	Turnaround Time (working days)	Sample Container	
Microbiology Department, Epsom & St Helier University NHS Trust	Mycobacterial Culture	64 days	Dry White top Universal container (30mL)	
	Helicobacter Ag (Stool)	5 days	15mL container with spoon	
	Legionella and S. pneumoniae Urinary Antigens	5 days	RED TOP Dry Universal container containing boric acid (30mL) OR Dry White top Universal container (30mL)	 
	Combined GC/Chlamydia PCR - Urine	2-5 days	Universal Container for urine Multi collection kit (do not remove liquid in container) - available from Laboratory on request	
	Combined GC/Chlamydia PCR – Swabs	2-5 days	Endocervical swab (female) Urethral swab (female/male) - available from Laboratory on request	

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Referral Laboratory	Investigation	Turnaround Time (working days)	Sample Container	
Microbiology Department, Epsom & St Helier University NHS Trust	Mumps IgM	1-5 days	Red top clotted blood	
	Measles IgG			
	Mycoplasma IgM			
	ASOT	1-6 days	NPA or Nose/throat viral swabs	
	Hepatitis IgG	Up to 8 days		
Respiratory virus PCR	1-4 days	Purple top ETDA		
Viapath	ACE PCR	2-5 days	Green top lithium heparin	
Central PHE Colindale	TB Culture for bone marrow or blood	8 weeks		
PHE Virus Reference Department	Syphilis serology confirmation	6 days		
PHE Toxoplasma reference laboratory (TRL)	Toxoplasma serology confirmation/PCR	3-10 days	Red top clotted blood Purple top ETDA	
Brucella Reference Unit (BRU)	Brucella serology	7 days	Red top clotted blood	

Referral Laboratory	Investigation	Turnaround Time (working days)	Sample Container	
PHE Rare and imported pathogens laboratory (RIPL)	Viral Haemorrhagic Fever serology		Red top clotted blood	Special arrangements are required for the collection and transport of specimens potentially harbouring these agents. Contact the Consultant Microbiologist for information on sample type and method of transportation prior to specimen collection.
	Dengue, West Nile, Zika Viruses			
	Borrelia (Lyme) Serology	5-7 days	Red top clotted blood CSF	
The Doctors Laboratory / Healthcare Services Laboratory	SARS-CoV-2 PCR	48-72 hours	Nose/throat viral swab	
	β-D-glucan	3 days	Red top clotted blood	
	Galactomannan	14 days		
	Voriconazole/Posaconazole/Itraconazole Levels			

Referral Laboratory	Investigation	Turnaround Time (working days)	Sample Container	
PHE Bristol	Cryptococcal Antigen	1 days	Red top clotted blood / CSF	
	BAL Galactomannan	1-2 days	BAL	
	Yeast Antifungal susceptibilities	7 days	Red top clotted blood	
	Aspergillus PPTNS	3 days	Red top clotted blood	
Micropathology Ltd	Parvovirus PCR	1 day	Purple top ETDA	
	Enterovirus PCR			
	HHV6/7 PCR			
	Blood borne virus (Hepatitis, HIV) PCR			
	Blood borne virus genomic studies			
	BK Virus PCR blood			
	JC virus			
	BK virus (urine)			
	BAL CMV PCR	Dry White top Universal container (30mL)		

7. Protection of Personal Information

The laboratory adheres to Trust policies for Data Protection (policy 0277) and Information Governance (policy 0468)

8. Complaints Procedure

In the event of dissatisfaction of service received from the Microbiology Department please contact:

Microbiology Laboratory Manager,
RMH, Sutton 0208 661 3787

pathologyqualityteam@rmh.nhs.uk