

Revision Number	12.0	Document Number	M-1800
Author/Reviewer	L McCoy	Authoriser	L Crawford
Active Date	24/07/2023	Page Number	Page 1 of 17
Effective Date	24/07/2023	Document Type	Laboratory Form
Clinical Microbiology and Virology Referral Tests and Accreditation Status			

Serology Referral Tests:

- ❖ **Results of all Serology Referral Tests are returned within 21 days, with the exception of Brucella which has a TAT of 40 days**
- ❖ **UK Health Security Agency (UKHSA) forms are available at the following location:**

<https://www.gov.uk/guidance/specialist-and-reference-microbiology-laboratory-tests-and-services>

Request Code	Test & Request form	Sample type	Address & contact details of referral lab	Accreditation status
AMQ AMO	Amoebic (<i>Entamoeba histolytica</i>) <i>Parasitology Request Form</i>	5-10ml clotted blood	The Department of Clinical Parasitology The Hospital for Tropical Diseases 3 rd Floor Mortimer Market Centre Mortimer Market London WC1E 6JB Serology Section Head: Ms P Lowe Scientific Lead: Dr S D Polley spencer.polley@hslpathology.com Tel: 0207 307 9400 (switchboard)	UKAS ISO15189 Accredited Ref: 9702
BIFQ	Babesia <i>Parasitology Request Form</i>	5-10ml clotted blood	The Department of Clinical Parasitology The Hospital for Tropical Diseases 3 rd Floor Mortimer Market Centre Mortimer Market London WC1E 6JB Serology Section Head: Ms P Lowe Scientific Lead: Dr S D Polley spencer.polley@hslpathology.com Tel: 0207 307 9400 (switchboard)	UKAS ISO15189 Accredited Ref: 9702
ZBRU BRU	Brucella Serology <i>Y3 form</i>	5-10ml clotted blood Where there is a CSF sample, a corresponding blood sample should also be sent.	Brucella Reference Unit (BRU) Liverpool Clinical Laboratories Virology Department Royal Liverpool and Broadgreen University Hospital NHS Trust Prescot Street Liverpool, L9 8XP Contact: John McGiven (APHA Brucella Consultant) John.mcgiven@apha.gov.uk Tel: 0151 706 4410	UKAS ISO15189 Accredited Ref: 9755
BBUQ ZBBU CBBU CSF	<i>Borrelia burgdorferi</i> C6 IgG/IgM (Lyme Disease) <i>P2 form</i>	5-10ml clotted blood For neurological Lyme disease, you must send paired CSF (>0.5 mL) and serum (>0.5 mL) samples taken on the same day.	Rare and Imported Pathogens Laboratory (RIPL) UKHSA, Manor Farm Road Porton Down, Wiltshire SP4 0JG Tel: 01980 612348 Laboratory Manager: Mr Barry Gibney Barry.gibney@ukhsa.gov.uk	UKAS ISO15189 Accredited Ref : 9304

Revision Number	12.0	Document Number	M-1800
Author/Reviewer	L McCoy	Authoriser	L Crawford
Active Date	24/07/2023	Page Number	Page 2 of 17
Effective Date	24/07/2023	Document Type	Laboratory Form
Clinical Microbiology and Virology Referral Tests and Accreditation Status			

CBOQ CBOT	Clostridium botulinum <i>L4 form</i> <i>Always phone referral lab before sending</i>	Blood must be < 48 hours from onset of symptoms. Faeces must be < 1 week old.	UKHSA Colindale Reference Services Division Bacteriology Reference Dept (GBRU) 61 Colindale London NW9 5EQ Tel: 0208 327 7887 GBRU Technical Manager – Michael Wright michael.wright@ukhsa.gov.uk BRD Quality Manager – Nazim Chowdhury nazim.chowdhury@ukhsa.gov.uk Tel: 020 8327 6642	UKAS ISO15189 Accredited Ref : 8197
CTET CTEQ	Clostridium tetani immunity (Serum Antibodies for Tetanus toxoid) <i>R3 form</i>	5-10ml clotted blood	UKHSA Colindale Reference Services Division Bacteriology Reference Dept (RVPBRU) 61 Colindale London NW9 5EQ Tel: 0208 327 7887 Technical Manager – Nita Doshi nita.doshi@ukhsa.gov.uk BRD Quality Manager – Nazim Chowdhury nazim.chowdhury@ukhsa.gov.uk Tel: 020 8327 6642	UKAS ISO15189 Accredited Ref : 8197
CYSQ CYS	Cysticercosis (Taenia solium) <i>Parasitology Request Form</i>	5-10ml clotted blood	The Department of Clinical Parasitology The Hospital for Tropical Diseases 3 rd Floor Mortimer Market Centre Mortimer Market London WC1E 6JB Serology Section Head: Ms P Lowe Scientific Lead: Dr S D Polley spencer.polley@hslpathology.com Tel: 0207 307 9400 (switchboard)	UKAS ISO15189 Accredited Ref: 9702
FACQ FAC	Fasciola <i>Parasitology Request Form</i>	5-10ml clotted blood	The Department of Clinical Parasitology The Hospital for Tropical Diseases 3 rd Floor Mortimer Market Centre Mortimer Market London WC1E 6JB Serology Section Head: Ms P Lowe Scientific Lead: Dr S D Polley spencer.polley@hslpathology.com Tel: 0207 307 9400 (switchboard)	UKAS ISO15189 Accredited Ref: 9702
FILQ FIL	Filaria (Microfilaria spp.) <i>Parasitology Request Form</i>	5-10ml clotted blood	The Department of Clinical Parasitology The Hospital for Tropical Diseases 3 rd Floor Mortimer Market Centre Mortimer Market London WC1E 6JB Serology Section Head: Ms P Lowe Scientific Lead: Dr S D Polley spencer.polley@hslpathology.com Tel: 0207 307 9400 (switchboard)	UKAS ISO15189 Accredited Ref: 9702

Revision Number	12.0	Document Number	M-1800
Author/Reviewer	L McCoy	Authoriser	L Crawford
Active Date	24/07/2023	Page Number	Page 3 of 17
Effective Date	24/07/2023	Document Type	Laboratory Form
Clinical Microbiology and Virology Referral Tests and Accreditation Status			

BHED	HEV RNA in deceased organ donors. <i>Send samples same or next day along with organ donor request form</i>	3 EDTA whole bloods required.	National Transfusion Microbiology Reference Laboratory (NTMRL) NHSBT Charcot Road London NW9 5BG Tel: 020 8957 2896 Laboratory Manager: Mhairi Webster mhairi.webster@nhsbt.nhs.uk Tel: 020 8957 2896	UKAS ISO15189 Accredited Ref : 8783
ZHI2	HIV-2 Antibody <i>S3 form</i>	5-10ml clotted blood	Virus Reference Department (VRD) UKHSA 61 Colindale Avenue, London, NW9 5HT Tel: 0208 327 6017 Quality Officer: Sangita Sapkota Sangita.Sapkota@ukhsa.gov.uk Tel: 020 7811 7092	UKAS ISO15189 Accredited Ref : 8825
ZRMS	Rubella IgM (confirmatory only) <i>E8 form</i>	Serum or plasma (50µl)		
HYDQ HYD	Hydatid (Echinococcus spp.) <i>Parasitology Request Form</i>	5-10ml clotted blood	The Department of Clinical Parasitology The Hospital for Tropical Diseases 3 rd Floor Mortimer Market Centre Mortimer Market London WC1E 6JB Serology Section Head: Ms P Lowe Scientific Lead: Dr S D Polley spencer.polley@hslpathology.com Tel: 0207 307 9400 (switchboard)	UKAS ISO15189 Accredited Ref: 9702
LEIQ LEI	Leishmania <i>Parasitology Request Form</i>	5-10ml clotted blood	The Department of Clinical Parasitology The Hospital for Tropical Diseases 3 rd Floor Mortimer Market Centre Mortimer Market London WC1E 6JB Serology Section Head: Ms P Lowe Scientific Lead: Dr S D Polley spencer.polley@hslpathology.com Tel: 0207 307 9400 (switchboard)	UKAS ISO15189 Accredited Ref: 9702
LMAQ LMAT	Leptospirosis <i>P3 form</i>	5-10ml clotted blood	Rare and Imported Pathogens Laboratory (RIPL) Public Health England Porton Down, Wiltshire SP4 0JG Tel: 01980 612348 Laboratory Manager: Mr Barry Gibney Barry.gibney@ukhsa.gov.uk	UKAS ISO15189 Accredited Ref : 9304
SCHQ SCH	Schistosoma <i>Parasitology Request Form</i>	5-10ml clotted blood	The Department of Clinical Parasitology The Hospital for Tropical Diseases 3 rd Floor Mortimer Market Centre Mortimer Market London WC1E 6JB Serology Section Head: Ms P Lowe	UKAS ISO15189 Accredited Ref: 9702

Revision Number	12.0	Document Number	M-1800
Author/Reviewer	L McCoy	Authoriser	L Crawford
Active Date	24/07/2023	Page Number	Page 4 of 17
Effective Date	24/07/2023	Document Type	Laboratory Form
Clinical Microbiology and Virology Referral Tests and Accreditation Status			

			Scientific Lead: Dr S D Polley spencer.polley@hslpathology.com Tel: 0207 307 9400 (switchboard)	
SATQ STAT	Streptococcal serology: anti-DNase / anti – hyaluronidase <i>Send copy of request form from SUV Portal</i>	5-10mls clotted blood	UKHSA Virology Infections Sciences Laboratory Pathology Sciences Building Southmead Hospital Bristol BS10 5NB Tel: 0177 4146222 Virology Lab Manager: Richard Hopes Rich.Hopes@nbt.nhs.uk Tel: 0117 414 6276 Quality Manager: Deborah Williams Deborah.Williams2@nbt.nhs.uk Tel: 0117 414 6251	UKAS ISO15189 Accredited Ref : 8043
STRQ STR	Strongyloides <i>Parasitology Request Form</i>	5-10ml clotted blood	The Department of Clinical Parasitology The Hospital for Tropical Diseases 3 rd Floor Mortimer Market Centre Mortimer Market London WC1E 6JB Serology Section Head: Ms P Lowe Scientific Lead: Dr S D Polley spencer.polley@hslpathology.com Tel: 0207 307 9400 (switchboard)	UKAS ISO15189 Accredited Ref: 9702
	T. cruzi in deceased organ donors <i>Send samples same or next day along with organ donor request form</i>	3 EDTA whole bloods required.	National Transfusion Microbiology Reference Laboratory (NTMRL) NHSBT Charcot Road London NW9 5BG Tel: 0208 957 2733 / 2816 Fax: 0208 957 2846 Laboratory Manager: Mhairi Webster mhairi.webster@nhsbt.nhs.uk Tel: 020 8957 2896	UKAS ISO15189 Accredited Ref : 8783
TOXQ TOXA	Toxocara <i>Parasitology Request Form</i>	5-10ml clotted blood	The Department of Clinical Parasitology The Hospital for Tropical Diseases 3 rd Floor Mortimer Market Centre Mortimer Market London WC1E 6JB Serology Section Head: Ms P Lowe Scientific Lead: Dr S D Polley spencer.polley@hslpathology.com Tel: 0207 307 9400 (switchboard)	UKAS ISO15189 Accredited Ref: 9702
ZTOX BTOX	Toxoplasma <i>STRL request form</i>	5-10ml clotted blood Send a blood with CSF or vitreous fluid. Extracts are accepted for low volumes but must be clearly marked extract.	Scottish Toxoplasma Reference Laboratory Microbiology Department Zone 3 Raigmore Hospital Inverness IV2 3UJ Tel: 01463 704206	UKAS ISO15189 Accredited Ref: 9612

Revision Number	12.0	Document Number	M-1800
Author/Reviewer	L McCoy	Authoriser	L Crawford
Active Date	24/07/2023	Page Number	Page 5 of 17
Effective Date	24/07/2023	Document Type	Laboratory Form
Clinical Microbiology and Virology Referral Tests and Accreditation Status			

			<p>Email: nhsh.microbiology@nhs.scot or nhsh.smirl@nhs.scot</p> <p>Microbiology Service Manager: Mr David Ashburn</p>	
TRIQ TRIF	Trichinella <i>Parasitology Request Form</i>	5-10ml clotted blood	<p>The Department of Clinical Parasitology The Hospital for Tropical Diseases 3rd Floor Mortimer Market Centre Mortimer Market London WC1E 6JB</p> <p>Serology Section Head: Ms P Lowe</p> <p>Scientific Lead: Dr S D Polley spencer.polley@hslpathology.com Tel: 0207 307 9400 (switchboard)</p>	UKAS ISO15189 Accredited Ref: 9702
TRYQ TRYP	Trypanosomal <i>Parasitology Request Form</i>	5-10ml clotted blood	<p>The Department of Clinical Parasitology The Hospital for Tropical Diseases 3rd Floor Mortimer Market Centre Mortimer Market London WC1E 6JB</p> <p>Serology Section Head: Ms P Lowe</p> <p>Scientific Lead: Dr S D Polley spencer.polley@hslpathology.com Tel: 0207 307 9400 (switchboard)</p>	UKAS ISO15189 Accredited Ref: 9702
TWIQ TWIP	Trophymera whippelii (Whipples Disease) <i>Send copy of request form from SUV Portal</i>	2ml EDTA, 1ml CSF, 6-10 paraffin sections (10µM thick)	<p>Leeds Microbiology Department Old Medical School Great George Street Leeds LS1 3EX Tel: 0113 392 3499</p> <p>Quality Manager: Hannah Armitage hannah.armitage@nhs.net</p>	UKAS ISO15189 Accredited Ref : 8157

Revision Number	12.0	Document Number	M-1800
Author/Reviewer	L McCoy	Authoriser	L Crawford
Active Date	24/07/2023	Page Number	Page 6 of 17
Effective Date	24/07/2023	Document Type	Laboratory Form
Clinical Microbiology and Virology Referral Tests and Accreditation Status			

Molecular Referral Tests:

❖ **Results of all Molecular Referral Tests are returned within 21 days, with the exception of the following:**

- **Intrathecal Antibody – 60 days**
- **HIV-2 viral load – 60 days**
- **STARHS (HIV Avidity index) – 90 days**
- **Hepatitis D – 40 days**

❖ **UKHSA forms are available at the following location:**

<https://www.gov.uk/guidance/specialist-and-reference-microbiology-laboratory-tests-and-services>

REFERRAL LABORATORY	TESTS/DISEASES & REQUEST FORM	WORKSHEET REQUEST ITEM	SAMPLE REQUIREMENTS	Accreditation status
Animal and Plant Health Agency (APHA) Department of Virology, Woodham Lane Addlestone, Surrey KT15 3NB Tel: 0208 415 2250 rabiesdiagnosticgroup@apha.gov.uk	Rabies Virus Immunity <i>Generic form</i>	ZRAB	2mls of whole blood or 0.5ml serum	UKAS ISO17025 Accredited Ref :1769
	Rabies Virus PCR <i>Generic form</i>	BPRB RPRB	2mls of whole blood or 0.5ml serum	UKAS ISO17025 Accredited Ref :1769
UKHSA Heart of England NHS Trust Dept of Microbiology 45 Bordesley Green East BIRMINGHAM West Midlands B9 5SS Tel: +44 (0) 121 424 2240 Clinical Scientist: Hannah Tanner Hannah.tanner@heartofengland.nhs.uk	HBV quantitation <i>Generic form</i>	ZHBD	EDTA x2 - 2ml Plasma	UKAS ISO15189 Accredited Ref: 8213
Respiratory and Vaccine Preventable Bacteriology Reference Dept (RVPBRU) UKHSA Colindale 61 Colindale Avenue, London NW9 5EQ RVPBRU Technical Manager – Nita Doshi nita.doshi@ukhsa.gov.uk BRD Quality Manager – Nazim Chowdhury nazim.chowdhury@ukhsa.gov.uk Tel: 020 8327 6642	Chlamydomphila psittaci PCR <i>R1</i>	ZCPP	Minimum of 200µl of respiratory sample	Test not UKAS accredited Ref : 8197
UKHSA Virology Infection Sciences Laboratory Pathology Sciences Building Southmead Hospital Westbury-on-Trym Bristol BS10 5NB Quality Manager: Deborah Williams Deborah.Williams2@nbt.nhs.uk Tel: 0117 414 6251 Virology Lab Manager: Richard Hopes	HHV6 <i>Generic form</i>	VSAT	EDTA whole Plasma CSF	UKAS ISO15189 Accredited Ref: 8043

Revision Number	12.0	Document Number	M-1800
Author/Reviewer	L McCoy	Authoriser	L Crawford
Active Date	24/07/2023	Page Number	Page 7 of 17
Effective Date	24/07/2023	Document Type	Laboratory Form
Clinical Microbiology and Virology Referral Tests and Accreditation Status			

REFERRAL LABORATORY	TESTS/DISEASES & REQUEST FORM	WORKSHEET REQUEST ITEM	SAMPLE REQUIREMENTS	Accreditation status
Rich.Hopes@nbt.nhs.uk Tel: 0117 414 6276				
Respiratory and Vaccine Preventable Bacteriology Reference Dept (RVPBRU) UKHSA Colindale 61 Colindale Avenue, London NW9 5EQ RVPBRU Technical Manager – Nita Doshi nita.doshi@ukhsa.gov.uk BRD Quality Manager – Nazim Chowdhury nazim.chowdhury@ukhsa.gov.uk Tel: 020 8327 6642	Bordetella pertussis anti-PT IgG antibody <i>R3 form</i>	ZBPA	Clotted blood - 400µl serum ≥ 2week history of cough	UKAS ISO15189 Accredited Ref : 8197
	Streptococcus Pneumoniae serotyping <i>R3 form</i>	ZSPT	Clotted blood - serum	UKAS ISO15189 Accredited Ref : 8197
Virus Reference Department (VRD) UKHSA 61 Colindale Avenue, London, NW9 5HT Tel: 0208 327 6017 Quality Officer: Sangita Sapkota Sangita.Sapkota@ukhsa.gov.uk Tel: 020 7811 7092	Electron microscopy <i>E17 form</i>	XEM	Suitable specimens are smears of vesicle fluid dried onto a microscope slide, or a piece of crust or biopsy of a lesion placed in a dry sterile container. Please note swabs of skin lesions in liquid media are not recommended for electron microscopy.	UKAS ISO15189 Accredited Ref : 8825
	Hepatitis D delta agent <i>S1 form</i>	ZHDV	Serum or plasma (200µl) Patient must be HBsAg positive.	UKAS ISO15189 Accredited Ref : 8825
	Hepatitis PCR (faeces only) <i>S1 form</i>	VSAT	Faeces in a sterile container	UKAS ISO15189 Accredited Ref : 8825
	HHV8 <i>S19 form</i>	ZHH8	Unseparated blood on EDTA. Other specimens by arrangement with laboratory	UKAS ISO15189 Accredited Ref : 8825
	HIV-1 Maternal transmission (Congenital, mother and baby) <i>S3 form</i>	ZHIM (Mother) ZHIC (baby)	Unseparated EDTA blood 5ml	UKAS ISO15189 Accredited Ref : 8825
	HTLV 1+2 antibody/confirm <i>S5 form</i>	ZL12	Serum or plasma (300µl)	UKAS ISO15189 Accredited Ref : 8825
	Intrathecal antibody <i>E22 form</i>	VSAT	CSF with paired serum sample. 100µl each.	UKAS ISO15189 Accredited Ref : 8825

Revision Number	12.0	Document Number	M-1800
Author/Reviewer	L McCoy	Authoriser	L Crawford
Active Date	24/07/2023	Page Number	Page 8 of 17
Effective Date	24/07/2023	Document Type	Laboratory Form
Clinical Microbiology and Virology Referral Tests and Accreditation Status			

REFERRAL LABORATORY	TESTS/DISEASES & REQUEST FORM	WORKSHEET REQUEST ITEM	SAMPLE REQUIREMENTS	Accreditation status
	JC Virus PCR <i>E13 form</i>	YPML, ZPML WPML	EDTA Plasma Serum Urine (150µl) CSF	UKAS ISO15189 Accredited Ref : 8825
	Mumps IgG <i>E8 form</i>	ZGMU	Serum or plasma (100µl)	UKAS ISO15189 Accredited Ref : 8825
	Poliovirus Antibody <i>E1 form</i>	ZPOL	Serum with date of collection: please refer to 'Poliomyelitis: Indications for serological testing'	UKAS ISO15189 Accredited Ref : 8825
	STARHS (HIV avidity index) <i>S3 form</i>	ZSTR	5-10ml clotted blood	Test not UKAS accredited Ref : 8825
Cambridge Clinical Laboratories Park House Winship Road, Milton, Cambridge, CB24 6BQ Lab Manager: Mike Morel Mike.morel@lab21.com Tel: 01223 395 486	Therapeutic Drug Monitoring <i>TDM form</i>	ZTDM	EDTA Plasma x2	UKAS ISO15189 Accredited Ref: 9325
Manchester Medical Microbiology Partnership , PO Box 209 Clinical Sciences Centre, CSB1 Virology dept. Manchester Royal Infirmary, Oxford Road, Manchester, M13 9WL Mrs Rachel Jones Rachel.Jones2@mft.nhs.uk Tel: 0161 276 5747	Herpes simplex - type specific IgG <i>Manchester Serology Form</i>	ZHST	5-10ml clotted blood	UKAS ISO15189 Accredited Ref : 8393
Rare and imported pathogens laboratory (RIPL) Public Health England Manor Farm Road, Porton Down Wiltshire SP4 0JG Tel: 01980 612348 Laboratory Manager: Mr Barry Gibney Barry.gibney@ukhsa.gov.uk	Anaplasma phagocytophilum IgG <i>P1 form</i>	ZANA	Serum	UKAS ISO15189 Accredited Ref : 9304
	Arbovirus antibody/PCR <i>P1 form</i>	ZARB WARB	5-10ml clotted blood	UKAS ISO15189 Accredited Ref : 9304
	Coxiella burnetti IgG/IgM <i>P1 form</i>	BCBF	Plasma/serum Respiratory samples: Swab, washings, secretions	UKAS ISO15189 Accredited Ref : 9304
	Hantavirus IgG <i>P1 form</i>	ZHVP	5-10ml clotted blood	UKAS ISO15189 Accredited Ref: 9304
	Rickettsia Antibody <i>P1 form</i>	ZRIC	5-10ml clotted blood	UKAS ISO15189 Accredited Ref : 9304

Revision Number	12.0	Document Number	M-1800
Author/Reviewer	L McCoy	Authoriser	L Crawford
Active Date	24/07/2023	Page Number	Page 9 of 17
Effective Date	24/07/2023	Document Type	Laboratory Form
Clinical Microbiology and Virology Referral Tests and Accreditation Status			

REFERRAL LABORATORY	TESTS/DISEASES & REQUEST FORM	WORKSHEET REQUEST ITEM	SAMPLE REQUIREMENTS	Accreditation status
HSL Virology 1 st Floor HSL Laboratories Royal Free Hospital Pond Street, Hampstead London NW3 2QG Tel: 020 7307 9400 General enquiries BBV: BBV.Lab@hslpathology.com General enquires Molecular pathology (Non-BBV): Molecular.Virology@hslpathology.com	HIV CCR5 Tropism determination <i>Specific form used by GUM</i>	ZMAR	EDTA Plasma x2	UKAS ISO15189 Accredited Ref : 8059
	CMV PCR bloodspot <i>Referral Form for CMV Testing on Guthrie Cards (Newborn Screening Dried Bloodspot)</i>	VSAT	Neonatal bloodspot / Guthrie card	UKAS ISO15189 Accredited Ref : 8059
	Molecular Virology Health Services Laboratories The Halo Building, 1 Mabledon Place, London, WC1H 9AX Email: virology.admin@hslpathology.co			
	HIV-2 Viral load <i>Generic Form</i>	ZH20	EDTA Plasma x2 Freshly drawn specimens must be received at the laboratory within 24 hours from the time taken or within 48hours if transported at 2 to 8°C.	UKAS ISO15189 Accredited Ref : 8059
	HIV-2 proviral DNA (congenital testing) <i>Generic Form</i>	ZH12 (mother) ZC12 (baby)	EDTA Plasma x2 Freshly drawn specimens must be received at the laboratory within 24 hours from the time taken or within 48hours if transported at 2 to 8°C.	UKAS ISO15189 Accredited Ref : 8059

Request items in italics are not on a worksheet.

Revision Number	12.0	Document Number	M-1800
Author/Reviewer	L McCoy	Authoriser	L Crawford
Active Date	24/07/2023	Page Number	Page 10 of 17
Effective Date	24/07/2023	Document Type	Laboratory Form
Clinical Microbiology and Virology Referral Tests and Accreditation Status			

Molecular Typing Referral Tests:

Results of all Molecular Referral Tests are returned within 21 days, with the exception of:

- ❖ *Enterovirus typing, HIV-1 genotypic resistance testing and HIV-1 Integrase resistance testing which have an extended turnaround time of up to 60 days*
- ❖ *HCV genotyping – 90 days*
- ❖ *UKHSA forms are available at the following location:*

<https://www.gov.uk/guidance/specialist-and-reference-microbiology-laboratory-tests-and-services>

REFERRAL LABORATORY	TESTS/DISEASES & REQUEST FORM	WORKSHEET REQUEST ITEM	SAMPLE REQUIREMENTS	Accreditation status
Bacteriology Reference Department (AMRHA) UKHSA 61 Colindale Avenue London NW9 5EQ Technical Manager: Caroline Motamed Caroline.motamed@ukhsa.gov.uk Tel: 0208 327 6511 BRD Quality Manager – Nazim Chowdhury nazim.chowdhury@ukhsa.gov.uk Tel: 020 8327 6642	<i>P. aeruginosa</i> VNTR 9 loci test <i>H1 multiple isolates</i> <i>H2 single isolate</i>	N/A	Contact laboratory to discuss testing requirements.	UKAS ISO15189 Accredited Ref : 8197
Leeds UKHSA Regional Laboratory Leeds General Infirmary Old Medical School Great George Street Leeds LS1 3EX Quality Manager: Hannah Armitage hannah.armitage@nhs.net	<i>C. difficile</i> VNTR 7 loci test <i>B7</i>	VSAT	Contact laboratory to discuss testing requirements	UKAS ISO15189 Accredited Ref : 10883
Meningococcal Reference Unit, Clinical Sciences Building 2, Manchester Royal Infirmary, Oxford Road, Manchester, M13 9WL Lead Scientist: Andrew Walker andrew.walker@phe.gov.uk Tel: 0161 276 8788	<i>Neisseria meningitidis</i> typing <i>Meningococcal Reference Unit request form</i>	ZNMT	Patients must be positive for <i>N. meningitidis</i> . Contact laboratory to discuss testing requirements	UKAS ISO15189 Accredited Ref : 10175
UKHSA Heart of England NHS Trust Dept of Microbiology 45 Bordesley Green East Birmingham West Midlands B9 5SS Tel: +44 (0) 121 424 2240 Clinical Scientist: Hannah Tanner Hannah.tanner@heartofengland.nhs.uk	UL97 CMV gene mutation analysis/ <i>Generic</i>	ZL97	Patients must be CMV PCR positive. Blood, urine, other. Contact laboratory to discuss testing requirements	UKAS ISO15189 Accredited Ref : 8213

Revision Number	12.0	Document Number	M-1800
Author/Reviewer	L McCoy	Authoriser	L Crawford
Active Date	24/07/2023	Page Number	Page 11 of 17
Effective Date	24/07/2023	Document Type	Laboratory Form
Clinical Microbiology and Virology Referral Tests and Accreditation Status			

REFERRAL LABORATORY	TESTS/DISEASES & REQUEST FORM	WORKSHEET REQUEST ITEM	SAMPLE REQUIREMENTS	Accreditation status
<p>Micropathology Ltd University of Warwick Science Park, Venture Centre Sir William Lyons Road Coventry CV4 7EZ www.micropathology.com Email: info@micropathology.com</p> <p>Nagela Ford (Quality Lead) n.ford@micropathology.com Tel: +44 (0) 2476 323222</p>	<p>CMV Resistance (ganciclovir)</p> <p><i>Request form available on laboratory website</i></p>	ZGAN	Whole blood, serum/plasma	UKAS ISO15189 Accredited Ref: 9622
<p>Barts Health NHS Trust Virology, 3rd Floor Pathology and Pharmacy Building, 80 Newark Street, London. E1 2ES</p> <p>Chief Healthcare Scientist: Xosé Couto Parada xose.couto-parada@nhs.net Results enquiry: 020 3246 0364</p>	<p>HIV genotypic resistance</p> <p><i>HIV resistance form</i></p>	ZHIR	EDTA x2 – Plasma 1-2mls depending on Viral load	UKAS Ref : 8285 Test not UKAS accredited
	<p>HIV Integrase resistance</p> <p><i>HIV resistance form</i></p>	ZIIR	EDTA x2 – Plasma 1-2mls depending on Viral load	UKAS Ref : 8285 Test not UKAS accredited
<p>Virus Reference Department (VRD) UKHSA 61 Colindale Avenue, London, NW9 5HT Tel: 0208 327 6017</p> <p>Quality Officer: Sangita Sapkota Sangita.Sapkota@ukhsa.gov.uk Tel: 020 7811 7092</p>	<p>Adenovirus typing</p> <p><i>E27</i></p>	VSAT	Patient must be Adenovirus positive. Contact laboratory.	UKAS ISO15189 Accredited Ref : 8825
	<p>Enterovirus typing</p> <p><i>E1</i></p>	Z EVT	Positive for Enterovirus.- automatic referral	UKAS ISO15189 Accredited Ref : 8825
	<p>Hepatitis A genotyping</p> <p><i>S1</i></p>	ZHAS	Patient must be Hepatitis A IgM positive 500µl serum	UKAS ISO15189 Accredited Ref : 8825
	<p>Hepatitis B genotyping</p> <p><i>S10</i></p>	ZHBG	EDTA – plasma 300µl	UKAS Ref : 8825 Test not UKAS accredited
	<p>HCV Genotyping</p> <p><i>S15</i></p>	ZGCB	EDTA or clotted blood 300µl plasma/serum	UKAS ISO15189 Accredited Ref : 8825
	<p>Influenza typing (Untyped only)</p> <p><i>E3</i></p>	YSFS	400µl Respiratory sample negative H1, H3, H5 and H7 assays.	UKAS ISO15189 Accredited Ref : 8825
	<p>Measles Genotyping</p> <p><i>E8</i></p>	VSAT	Respiratory swab	UKAS ISO15189 Accredited Ref : 8825
<p>WHO CC for Reference and Research on Influenza The Francis Crick Institute 1 Brill Place, London NW1 1BF</p>	<p>Influenza typing (Surveillance only) <i>WHO CC sample table London, UK</i> <i>V:\LAB_Virology\Viro\SAT records\forms 2019\WHO sample form blank template</i></p>	N/A	500µl Respiratory sample. As requested by laboratory only.	Test not UKAS accredited

Request items in italics are not on a worksheet.

Revision Number	12.0	Document Number	M-1800
Author/Reviewer	L McCoy	Authoriser	L Crawford
Active Date	24/07/2023	Page Number	Page 12 of 17
Effective Date	24/07/2023	Document Type	Laboratory Form
Clinical Microbiology and Virology Referral Tests and Accreditation Status			

Bacteriology Referral Tests:

Results of all Bacteriology Referral Tests are returned within 21 days, with the exception of:

- ❖ ***Mycobacterium identification and sensitivities which have an extended turnaround time of up to 56 days***
- ❖ ***Aspergillus PCR which has an extended TAT of 28 days***
- ❖ ***UKHSA forms are available at the following location:***

<https://www.gov.uk/guidance/specialist-and-reference-microbiology-laboratory-tests-and-services>

Test & Request form	Request Form	Sample type	Address & contact details of referral lab	Accreditation status
Acanthamoeba	<i>Parasitology Request Form</i>	Contact Lens And/ Or Wash Fluids Corneal Scrapes/ Biopsies/Swabs Submitted Cultures Material from blade should either be directly inoculated onto a plate, or rinsed with a small volume of sterile saline/distilled water into a small sterile vial. Please do not leave blade in as it rusts and can have a detrimental effect on culture.	The Department of Clinical Parasitology The Hospital for Tropical Diseases 3 rd Floor Mortimer Market Centre Mortimer Market London WC1E 6JB Serology Section Head: Ms P Lowe Scientific Lead: Dr S D Polley spencer.polley@hslpathology.com Tel: 0207 307 9400 (switchboard)	UKAS ISO15189 Accredited Ref: 9148
ADA testing		2-5ml pleural, ascetic or pericardial fluid 1ml CSF (Fresh specimen required)	Viapath Analytics LLP Biochemical Sciences 4 th & 5 th Floors, North Wing St Thomas' Hospital Westminster Bridge Road London SE1 7EH Dr Rachel Carling Rachel.carling@viapath.co.uk Tel: 020 7188 1283	UKAS ISO15189 Accredited Ref: 9093
- Anaerobe Identification including: <i>Bacteroides, Clostridia, Fusobacteria, Actinomyces spp.</i> , and other closely related genera. - Anaerobic susceptibility testing	<i>Anaerobe Reference Lab form. Available at:</i> www.publichealthwales.org/anaerobe-reference-unit	Pure Cultures sent on suitable agar slope (Cultures in cooked meat broths or swabs in transport media are acceptable)	UK Anaerobe Reference Unit Public Health Wales Microbiology Cardiff University Hospital of Wales Heath Park Cardiff CF14 4XW Tel: +44(0)2920 742378 / 742171 Clinical Lead: Dr H Hughes Lead Scientist: Trefor Morris Trefor.morris@wales.nhs.uk	UKAS ISO15189 Accredited Ref: 9510

Revision Number	12.0	Document Number	M-1800
Author/Reviewer	L McCoy	Authoriser	L Crawford
Active Date	24/07/2023	Page Number	Page 13 of 17
Effective Date	24/07/2023	Document Type	Laboratory Form
Clinical Microbiology and Virology Referral Tests and Accreditation Status			

<p>Antibiotic resistance, in particular confirmation and molecular investigation of new or unusual resistance.</p> <p>Identification of bacteria.</p> <p>Susceptibility testing.</p> <p>PVL testing & typing of staphylococcus</p> <p>Typing of Group A,B,C,G Streptococcus</p>	<p><i>H1 Characterisation & Resistance (multiple isolates)</i></p> <p><i>H2 Characterisation & Resistance (single isolates)</i></p> <p><i>H4 Staphylococcus & Streptococcus Reference service. Characterisation and Resistance (single isolate)</i></p> <p><i>H3 Staphylococcus & Streptococcus Reference service. Characterisation and Resistance (multiple isolates)</i></p>	<p>Pure Cultures sent on suitable agar slope</p>	<p>Bacteriology Reference Department (AMRHAI) UKHSA 61 Colindale Avenue London NW9 5EQ</p> <p>Technical Manager: Caroline Motamed Caroline.motamed@ukhsa.gov.uk Tel: 0208 327 6511</p> <p>BRD Quality Manager – Nazim Chowdhury nazim.chowdhury@ukhsa.gov.uk Tel: 020 8327 6642</p>	<p>UKAS : ISO15189 Accredited Ref : 8197</p>
<p>Antifungal drug assays</p> <p>Serological testing</p> <p>PCR testing for Candida & Panfungal Mould & Yeast ID</p>	<p><i>Y1 Mycology identification & Susceptibility Testing</i></p> <p><i>Y2 Diagnostic Mycology & assays referral</i></p>	<p>clotted blood 5-10mls</p>	<p>UKHSA Mycology Reference Lab Infection Sciences Laboratory Pathology Sciences Building Southmead Hospital Westbury-on-Trym Bristol BS10 5NB Tel: 0117 4146222</p> <p>Laboratory Manager: Mr Mike Palmer Michael.Palmer@nbt.nhs.uk Tel: 0117 414 6246</p> <p>Quality Manager: Deborah Williams Deborah.Williams2@nbt.nhs.uk Tel: 0117 414 6251</p>	<p>UKAS : ISO15189 Accredited Ref : 8043</p>
<p>Antimicrobial assays: Colistin Co-trimoxazole Linezolid</p>	<p>ARL Therapeutic drug monitoring form Available at: T:\Ref.labs</p>	<p>5mls clotted blood sample</p>	<p>Antimicrobial Reference Laboratory Infection Sciences Laboratory Pathology Sciences Building Southmead Hospital Westbury-on-Trym Bristol BS10 5NB Tel: 0117 414 6269 / 0117 414 6220</p> <p>Director: Prof A Lovering</p> <p>Quality Manager: Debbie Williams Deborah.Williams2@nbt.nhs.uk Tel: 0117 414 6265</p>	<p>UKAS : ISO15189 Accredited Ref : 8099</p>

Revision Number	12.0	Document Number	M-1800
Author/Reviewer	L McCoy	Authoriser	L Crawford
Active Date	24/07/2023	Page Number	Page 14 of 17
Effective Date	24/07/2023	Document Type	Laboratory Form
Clinical Microbiology and Virology Referral Tests and Accreditation Status			

Cryptosporidia	Cryptosporidium Request form Available at: www.publichealthwales.org/cryptorefunit	Faeces	Cryptosporidium Reference Unit Public Health Wales Microbiology ABM Singleton Hospital Swansea SA2 8QA Tel: 01792 285341 Head of unit: Prof Rachel Chalmers Swansea.crypto@wales.nhs.uk	UKAS : ISO15189 Accredited Ref : 9510
Drug Assay : Pyrazinamide	M-117 LF - NIMRL Referred Drug Assay Complete the antibiotic assay letter found in T:/NIMRL1/Referred samples/TB drug assay/Drug assay request form template.	Pyranizamide Serum 0.5ml Gel tubes not suitable. Timing of sample 2hr post-dose. Plus 6 hr post-dose if delayed absorption is suspected. Pre-dose not recommended.	Analytical Toxicology Laboratory Therapeutics & Toxicology Centre UWCM Academic Centre Llandough Hospital Cardiff CF64 2XX Tel: 02921 826894 General enquiries Contact: Emma Taylor (Office Manager) emma.taylor6@wales.nhs.uk Technical advice contact: Sandra Morgan (Laboratory Senior BMS) Sandra.morgan3@wales.nhs.uk Nichola Norman (Laboratory Senior BMS) Nichola.norman@wales.nhs.uk	UKAS : ISO15189 Accredited Ref : 8989
Drug Assay: Streptomycin Isoniazid (+ N-Acetyl-Isoniazid) Rifampicin Ethambutol Cycloserine	ARL Therapeutic drug monitoring form Available at: T:\Ref.labs	Streptomycin 1-2ml of separated serum Isoniazid (+ N-Acetyl-Isoniazid) Approx. 1-2 mL of blood taken in Sodium Fluoride/Potassium Oxalate (Fx) tube. Sample must be sent as whole blood (unspun and unseparated) to lab within 5 days of being taken. Rifampicin 1-2ml of separated serum. Ensure vacuette is at least ¾ filled as rifampicin can bind to glass and plastic containers. Ethambutol 1-2mL of separated serum. Cycloserine 1-2mL of separated serum. Timing of samples: Streptomycin	Antimicrobial Reference Laboratory Department of Microbiology Pathology Building Southmead Hospital Southmead Bristol BS10 5NB Tel: 0177 414 6222 Director: Prof A Lovering Contact: Debbie Williams Deborah.Williams2@nbt.nhs.uk Tel: +44(0)117 414 6265 Fax: 0117 4146282 Email: arlenquiries@nbt.nhs.uk	UKAS : ISO15189 Accredited Ref : 8099

Revision Number	12.0	Document Number	M-1800
Author/Reviewer	L McCoy	Authoriser	L Crawford
Active Date	24/07/2023	Page Number	Page 15 of 17
Effective Date	24/07/2023	Document Type	Laboratory Form
Clinical Microbiology and Virology Referral Tests and Accreditation Status			

		<p>Pre-dose sample and 1 hour post-dose sample</p> <p>Isoniazid (+ N-Acetyl-Isoniazid) A post dose sample, taken 2 hours after the end of administration (and/or 6 hours if monitoring absorption)</p> <p>Rifampicin Pre-dose plus 1hr post-dose after IV or 1, 2 and 4hr post- dose after oral administration.</p> <p>Ethambutol Pre dose sample taken up to an hour before dosing and a post dose sample taken 2 hours after oral administration</p> <p>Cycloserine Pre dose sample and a post dose sample, taken 3-4 hours after oral administration.</p>		
<p>Identification of gastrointestinal pathogens. Phagotyping/ Serotyping of <i>Salmonella</i> & <i>Shigella</i>. <i>Listeria</i> serotyping Clostridium toxin typing <i>Bacillus</i> ID and typing Helicobacter pylori VTEC Vibrio Yersinia Vibrio</p>	<p>L4 Gastrointestinal Bacteria culture Referral L7 Food Samples/cultures</p> <p>L5 Gastrointestinal Bacteria Clinical Referral</p>	<p>Pure Cultures sent on suitable agar slope</p> <p>Biopsy in sterile saline</p>	<p>Bacteriology Reference Department (GBRU) UKHSA 61 Colindale Avenue London NW9 5EQ Tel: 020 8327 7887</p> <p>Technical Manager: Michael Wright michael.wright@ukhsa.gov.uk</p> <p>BRD Quality Manager – Nazim Chowdhury nazim.chowdhury@ukhsa.gov.uk Tel: 020 8327 6642</p>	<p>UKAS : ISO15189 Accredited Ref : 8197</p>
<p>Identification and sensitivities of Mycobacterium sp</p>	<p>Form N1 Mycobacterium Referral for identification and sensitivities</p>	<p>-3ml of pure liquid culture from a MGIT tube or</p> <p>-Pure culture on LJ slope.</p>	<p>UKHSA National Mycobacterium Reference Service-South (NMRS-South) 61 Colindale London NW9 5EQ Tel: 0208 327 6957</p> <p>Laboratory Manager: Norah Easy norah.easy@phe.gov.uk Tel: 020 8327 7708</p> <p>Quality Officer: Sangita Sapkota sangita.sapkota@phe.gov.uk Tel: 020 8327 7708</p>	<p>UKAS : ISO15189 Accredited Ref : 10080</p>

Revision Number	12.0	Document Number	M-1800
Author/Reviewer	L McCoy	Authoriser	L Crawford
Active Date	24/07/2023	Page Number	Page 16 of 17
Effective Date	24/07/2023	Document Type	Laboratory Form
Clinical Microbiology and Virology Referral Tests and Accreditation Status			

Meningococcal PCR, ID, typing & antibiotic susceptibility testing of <i>Neisseria meningitidis</i>	Meningococcal Reference unit Request form Available at: https://www.gov.uk/government/publications/meningococcal-reference-unit-request-form	Serum or plasma (100µl)	UKHSA Meningococcal Reference unit Clinical Sciences Building 2 Manchester Royal Infirmary Oxford Road Manchester M13 9WL Lead BMS: Stephen Clark PhD stephen.clark@phe.gov.uk Tel: 0161 276 6757	UKAS : ISO15189 Accredited Ref : 10175
Parasitology Amoebic; Babesia; Cysticercosis Fasciola; Filaria Hydatid; Leishmania Malaria; Schistosomiasis Strongyloides; Toxocara Trichinella; Trypanosomal + other tropical diseases as requested	Cover letter	Faeces, urine, sellotape slide/perianal swab, body fluids such as; duodenal/jejunal aspirates, hydatid cyst.	The Department of Clinical Parasitology The Hospital for Tropical Diseases 3 rd Floor Mortimer Market Centre Mortimer Market London WC1E 6JB Serology Section Head: Ms P Lowe Scientific Lead: Dr S D Polley spencer.polley@hslpathology.com Tel: 0207 307 9400 (switchboard)	UKAS : ISO15189 Accredited Ref : 9148
Respiratory & systemic bacteria inc.. Atypical pneumonia: Legionella, Mycoplasma, Ureaplasma, Bordetella, Bartonella & Respiratory Chlamydia Haemophilis & Diphtheria	R1: Respiratory & systemic bacteria R3: Vaccine preventable bacteria	Pure Cultures sent on suitable agar slope	UKHSA Colindale Reference Services Division Bacteriology Reference Dept (RVPBRU) 61 Colindale London NW9 5EQ Tel: 0208 327 7887 Technical Manager – Nita Doshi nita.doshi@ukhsa.gov.uk BRD Quality Manager – Nazim Chowdhury nazim.chowdhury@ukhsa.gov.uk Tel: 020 8327 6642	UKAS : ISO15189 Accredited Ref : 8197
Straintyping <i>M. bovis</i> (8 marker MLVA and Spoligotyping)	M. bovis letter in T:\NIMRL1\REFERRED SAMPLES\VSD results\VSD Bovis letter.	25µL of either genomic DNA or boiled lysate	Bacteriology Branch, VSD AFBI Stoney Road Stormont BT4 3SD Quality Manager: Cynthia McVeigh Cynthia.McVeigh@afbini.gov.uk Dr Robin Skuce Robin.skuce@afbini.gov.uk Tel: 02890 519428 / 02890 515771	MVLA is accredited to ISO9001 Spoligotyping is accredited to ISO17025 Ref : 2632

Revision Number	12.0	Document Number	M-1800
Author/Reviewer	L McCoy	Authoriser	L Crawford
Active Date	24/07/2023	Page Number	Page 17 of 17
Effective Date	24/07/2023	Document Type	Laboratory Form
Clinical Microbiology and Virology Referral Tests and Accreditation Status			

16S PCR	Form M1	CSF, Blood, Tissue	<p>Bacterial Identification Service (BIDS) Bacteriology Reference Department (AMRHAI) UKHSA 61 Colindale London NW9 5EQ</p> <p>Technical Manager: Caroline Motamed Caroline.motamed@ukhsa.gov.uk</p> <p>Tel: 0208 327 6511</p> <p>BRD Quality Manager – Nazim Chowdhury nazim.chowdhury@ukhsa.gov.uk</p> <p>Tel: 020 8327 6642</p>	<p>UKAS ISO15189 Accredited</p> <p>Ref : 8197</p>
----------------	---------	--------------------	---	--