


Schedule of Accreditation

issued by

United Kingdom Accreditation Service

2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

 UKAS MEDICAL 8704 Accredited to ISO 15189:2012	Belfast Health and Social Care Trust	
	Issue No: 008 Issue date: 09 April 2021	
	Kelvin Building Royal Group of Hospitals Grosvenor Road Belfast BT12 6BA United Kingdom	Contact: Mark McGimpsey Tel: +44 (0) 2890 634 125 / 7718 895 032 E-Mail: mark.mcgimpsey@belfasttrust.hscni.net Website: www.belfasttrust.hscni.net/services/ Laboratory-MortuaryServices.htm
Testing performed by the Organisation at the locations specified		

Laboratory location:

Location details	Activity	Location code
Address Belfast Health and Social Care Trust Kelvin Building Royal Group of Hospitals Grosvenor Road Belfast BT12 6BA United Kingdom	Local contact As above	Bacteriology testing Molecular testing Serology testing A

Site activities performed away from the locations listed above:

Location details	Activity	Location code
Address: Belfast Health and Social Care Trust Genitourinary Medicine Clinic Level 3 Outpatients Department Royal Victoria Hospital Grosvenor Road Belfast BT12 6BA	Local Contact: As above	Culture and microscopy for STDs B



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DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN BODY FLUIDS AND TISSUES	<u>Microbiology examination activities for the purpose of clinical diagnosis</u>	In house documented methods based on related PHE Standards for Microbiology Investigations (SMIs), incorporating manufacturers' instructions where relevant	A
Sputum, BAL, CAPD Fluid, Ear Swab, Female Genital Swab, Tissue / Biopsy, Non-Sterile Body Fluid, Sterile Body Fluid, Intravascular cannulas, Male Genital Swab, Nose Swab Sinus Aspirate, Skin / Wound Swabs, Upper respiratory tract swabs, Eye Swabs /Corneal Scrape, CSF, Prosthetic Joint samples	<u>Bacteriology</u> General isolation and characterisation of micro-organisms of clinical significance	Using manual culture SOP: M-399 M-381 Cystic Fibrosis Sputum M-382 Routine Sputum M-383 BAL M-384 Enteric Pathogens M-385 CAPD Fluid M-386 Ear Infection M-387 Female Genital Tract Infection M-388 Tissues and Biopsies M-389 Non-sterile Fluids and Associated Samples M-390 Sterile Fluids M-391 Investigation of intravascular cannulas M-392 Male Genital Tract Infection M-394 Nose Investigations M-395 Sinus Aspirates M-396 Skin and Soft Tissue M-397 Upper Respiratory Tract M-402 Eye Infection M-405 CSF Examination M-410 Samples from Prosthetic Joint Infections	A
Whole blood inoculated culture bottles	Detection of microbial growth and general isolation of micro-organisms of clinical significance	bioMérieux BACT/ALERT® VIRTUO® Microbial Detection System SOP: M-403	A



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HUMAN BODY FLUIDS AND TISSUES (cont'd)	<u>Microbiology examination activities for the purpose of clinical diagnosis (cont'd)</u>		
	<u>Bacteriology (cont'd)</u>		
Cultures isolated in-house	Identification of microorganisms of clinical significance	Automated procedures: Vitek 2 (biochemical tests for gram positive and gram negative bacteria, anaerobic bacteria and yeast). Vitek MS MALDI-ToF (Matrix-assisted laser desorption/ionisation) M -813 Manual procedures: Coagulase Latex and Tube Streptococcal Grouping Oxidase test Gono Gen ii X and V factors Blactamase activity SOP: M-401	A
Cultures isolated in-house	Antimicrobial susceptibility testing of bacterial isolates of clinical significance	Vitek 2 and disc diffusion (EUCAST guidelines) SOP: M-400	A
Body fluid, tissue, bacterial culture isolates produced by laboratory culture	Bacterial differentiation: gram positive /negative and morphology	Gram stain and microscopy SOP: M-401	A
Male and female fluid specimens. smears from urethral, vaginal, cervix, throat and rectum	Bacterial differentiation: gram positive /negative and morphology	Gram stain and microscopy SOP: M-438	B
Vaginal smears	Diagnosis of Bacterial vaginosis	Gram stain and microscopy in accordance with Nugent scoring. SOP: M-438	B



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HUMAN BODY FLUIDS AND TISSUES (cont'd)	<u>Microbiology examination activities for the purpose of clinical diagnosis (cont'd)</u>		
	<u>Bacteriology (cont'd)</u>		
Male and female fluid specimens. smears from urethral, vaginal, cervix, throat and rectum	Isolation of <i>Neisseria gonorrhoeae</i>	Inoculated culture VCAT plate SOP: M-438	B
	Isolation and identification of <i>Trichomonas vaginalis</i>	Culture using Trichomonas broth medium Wet Preparation/microscopy SOP: M-438	B
Nasal Swabs Groin swabs Wound and other relevant sites Urine Sputum	MRSA screening/confirmation	Chromogenic agar culture and Vitek MS SOP: M-393	A
Nasal Swabs Groin swabs Rectal swabs Faeces Wound and other relevant sites Urine Sputum	Carbapenemase producing organism screening/confirmation	Culture and Vitek MS SOP: M-413 and M -813	A
Faeces	Detection of <i>Clostridium difficile</i>	PCR: SeroSep EntericBio SOP: M-505	A
Faeces	Detection of <i>C. difficile</i> toxin A and B	Techlab Quik Chek rapid membrane enzyme immunoassay kit SOP: M-505	A



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HUMAN BODY FLUIDS AND TISSUES (cont'd)	<u>Microbiology examination activities for the purpose of clinical diagnosis (cont'd)</u>		
	<u>Bacteriology (cont'd)</u>		
Faeces	Detection of Enteric Pathogens: <i>Salmonella</i> sp. <i>Shigella</i> spp. <i>Escherichia coli</i> O157 and other Enteropathogenic <i>E. coli</i> <i>Campylobacter</i> spp. <i>Yersinia</i> spp. <i>Vibrio</i> spp.	PCR: SeroSep EntericBio SOP: M-384	A
Faeces	Detection of cryptosporidium and giardia	PCR: SeroSep EntericBio SOP: M-384	A
Faeces	Ova, cysts and parasites.	Light Microscopy M-506	A
Urine	Detection and quantification of red cells, white cells, epithelial cells, bacteria and yeasts	Sysmex UF 5000 using Fluorescence flow cytometry. M-1654	A
CSF, CAPD ,Ascites, pleural, Knee fluids	Differential Cell Count Reporting numbers of leucocytes and percentage Polymorphs & Lymphocytes	Microscopy using Haemocytometer SOP: M-569	A



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HUMAN BODY FLUIDS AND TISSUES (cont'd)	<u>Microbiology examination activities for the purpose of clinical diagnosis (cont'd)</u>		
	<u>Bacteriology (cont'd)</u>		
Serum, CSF	Cryptococcal Antigen Detection	IMMY Latex Cryptococcus Antigen Detection System SOP: M-477	A
Body fluid, tissue, sputum, faeces, swab All sites where AAFB may be indicated including CF cough swabs	<u>Presence of acid fast bacilli</u>	Auramine fluorescent staining, microscopy SOP: M-508	A
Sputum Gastric Aspirates Bronchial Washings/BAL Urine CSF Aspirated fluids and pus Tissue Blood Bone Marrow Any specimen indicating history of AAFB	Culture, identification and sensitivity testing of Mycobacteria	Automated Liquid culture / BD Bactec/MGIT 960, Bact/Alert SOP: M-418 Manual culture Pyruvate LJ slopes SOP: M-406, SOP: M-407 MTBC detection- Cepheid GeneXpert MTB/RIF Ultra, BD MGIT TBc identification test Species identification PCR Hain GT BLOT 48; identification of MTBC via Cepheid GeneXpert MTB/RIF and , HAIN line probe assay kits SOP: M-408 Phenotypic First line sensitivity testing for MTBC via BD Bactec/MGIT, using BACTEC MGIT SIRE/PYR kits SOP: M-409 M-408	A



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HUMAN BODY FLUIDS AND TISSUES (cont'd)	<u>Microbiology examination activities for the purpose of clinical diagnosis (cont'd)</u>		
Keratinised Tissue	<u>Mycology</u> Isolation and identification of fungi of clinical significance (dermatophytic)	Culture, macroscopic examination and microscopy SOP: M-419; M-421	A
Body Fluid; Tissue; Sputum; Swabs Throat Swabs Ear Swabs	Isolation, identification and susceptibility testing of non-dermatophytic fungi / yeasts of clinical significance	Culture SOP: M-420 API and Vitek 2 SOP: M-422 SOP: M-424 Sensititre	A
Joint fluid	<u>Miscellaneous</u> Presence of crystals	Centrifugation/ polarising Microscopy SOP: M-414	A
Throat swab	<u>Molecular testing</u> Neisseria gonorrhoeae confirmation	Cepheid GeneXpert® Nucleic acid amplification test. Reverse transcriptase PCR SOPs: M-800 M-1538	
Respiratory samples (swabs, secretions and washings)	Influenza Typing: H1(2009)/H3 (currently circulating) H5 H7 – RNA detection	FLOW: 'In-House Real Time PCR TaqMan Assays'. Using Primary Sample Handling instrument, MagNA Pure 96 extractor, PCR Set Up instrument, LightCycler 480 analyser and Aurora analysis software. SOPs: M-513 (Mastermix preparation) M-823/M-824 (FLOW)	



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HUMAN BODY FLUIDS AND TISSUES (cont'd)	<u>Microbiology examination activities for the purpose of clinical diagnosis (cont'd)</u>		
	<u>Molecular testing (cont'd)</u>		
Respiratory samples (swabs, secretions and washings)	Coronavirus Typing: OC43/229E/NL63/ – RNA detection	FLOW: 'In-House Real Time PCR TaqMan Assays'. Using Primary Sample Handling instrument, MagNA Pure 96 extractor, PCR Set Up instrument, LightCycler 480 analyser and Aurora analysis software. SOPs: M-513 (Mastermix preparation) M-823/M-824 (FLOW)	A
Respiratory samples (swabs, secretions and washings), faeces, EDTA plasma, serum	Meningeal and sepsis screen: Enterovirus (Coxsackie/Echo) Parvovirus (1-6) Neisseria meningitidis Streptococcus pneumoniae Haemophilus influenzae – DNA or RNA detection	FLOW: 'In-House Real Time PCR TaqMan Assays'. Using Primary Sample Handling instrument, MagNA Pure 96 extractor, PCR Set Up instrument, LightCycler 480 analyser and Aurora analysis software. SOPs: M-513 (Mastermix preparation) M-823/M-824 (FLOW)	A
Respiratory samples	Respiratory Screen 16: Metapneumovirus (A and B) Parainfluenza (1,2 3, 4) Adenovirus Human rhinovirus Human Bocavirus Coronavirus	In-house Real Time PCR Taqman Assays - FLOW: SOPs: M-823 FLOW System M-824 FLOW Analysis	A
Respiratory samples	Respiratory Short Screen: Influenza A virus Influenza B Virus Respiratory Syncytial A Virus Respiratory Syncytial B Virus	FLOW: As described above SOP: M-357 Cepheid GeneXpert	A



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	<u>Molecular testing (cont'd)</u>		
Respiratory samples (cont'd)	Respiratory Atypical Screen: Mycoplasma pneumoniae Chlamydia pneumoniae Legionella pneumophila	FLOW: As described above	A
	Bordetella pertussis	FLOW: As described above	A
	Pneumocystis jirovecii	FLOW: As described above	A
CSF	Meningeal and Sepsis Screen: Enterovirus Parecovirus Neisseria meningitidis Strep pneumoniae Haemophilis influenzae	FLOW: As described above	A
Faeces, vomit	Gastroenteritis screen: Rotavirus Norovirus Adenovirus Astrovirus – DNA or RNA detection	FLOW (as described above).	A
Genital swabs, skin swabs, conjunctival swabs, respiratory samples (swabs, secretions and washings)	Herpes Simplex 1/2 Virus – DNA detection	FLOW (as described above).	A
Skin swabs, conjunctival swabs, respiratory samples (swabs, secretions and washings)	Varicella Zoster Virus – DNA detection	FLOW (as described above).	A
EDTA plasma, serum, respiratory samples (swabs, secretions and washings), post-mortem tissues	Parvovirus B19 – DNA detection	FLOW (as described above).	A



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	<u>Molecular testing (cont'd)</u>		
Saliva, buccal swabs, throat swabs	Mumps – RNA detection	FLOW (as described above).	A
Respiratory samples (swabs, secretions and washings)	Measles – RNA detection	FLOW (as described above).	A
EDTA plasma, serum, genital swabs, anal swabs, urine, post-mortem tissues, respiratory samples (swabs, secretions and washings)	Treponema pallidum (Syphilis) – DNA detection	FLOW (as described above).	A
Respiratory samples (swabs, secretions and washings)	Coxiella burnetii (Q Fever) – DNA detection	FLOW (as described above).	A
EDTA plasma, serum	Epstein-Barr Virus – DNA quantitation	FLOW (as described above).	A
EDTA plasma, urine, colon biopsies	Cytomegalovirus – DNA quantitation	FLOW cont'd (as described above).	A
EDTA plasma, serum, conjunctival swabs, urine	Adenovirus – DNA quantitation	FLOW (as described above).	A
EDTA plasma, serum, urine	BK Virus – DNA quantitation	FLOW (as described above).	A
Rectal swabs	Lymphogranuloma venereum (LGV)	FLOW (as described above)	A
CSF and Ocular samples	Toxoplasma gondii DNA	FLOW (as described above)	



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HUMAN BODY FLUIDS AND TISSUES (cont'd)	<u>Microbiology examination activities for the purpose of clinical diagnosis (cont'd)</u>		
	<u>Molecular typing</u>		
Pseudomonas aeruginosa positive cultures	Pseudomonas aeruginosa 5-locus MLVA	5 Locus MLVA Typing SOP: M-1193	A
C.difficile positive cultures	C. difficile	PCR Ribotyping SOP: M-535	A
Nucleic acid extracts from PCR positive specimen	Neisseria meningitidis	TaqMan PCR SOP: M-857	A
	<u>Serology</u>		
Serum	Anti-Streptolysin O - IgG/IgM Quantitation	Latex agglutination SOP: M-426	A
Serum	Anti-HIV 1&2	INSTI Manual immunochromatographic membrane assays SOP: M-467	A
Serum		Cobas 8000 e602	A
	Syphilis	Sandwich test SOP: M-502	
	Toxoplasma IgG	ELFA SOP: M-503	
	Toxoplasma IgM	μ -Capture SOP: M-504	
	HIV	Sandwich test SOP: M-497	
	Anti - HAV	Competition Test SOP: M-488	
	Anti-HAV IgM	μ -Capture test SOP: M-487	
	HBsAg II	Sandwich test SOP: M-489	



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Serum (cont'd)	<u>Serology (cont'd)</u>		A
	Anti-HBs	Cobas 8000 e602 Sandwich test SOP: M-491	
	rHTLV 1 & 2	SOP: M-1157	
	Anti - HBc	Competition Test SOP: M-492	
	Anti - HBc IgM	μ-Capture test SOP: M-493	
	HBVe Antigen	Sandwich test SOP: M-494	
	Anti - HBe	Competition Test SOP: M-495	
	Anti - HCV II	Sandwich test SOP: M-496	
	CMV IgG	Sandwich test SOP: M-498	
	CMV IgM	μ-Capture test SOP: M-499	
	Rubella IgG	Sandwich test SOP: M-500	
	Rubella IgM	μ-Capture test SOP: M-501	



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Serum (cont'd)	<u>Serology (cont'd)</u> Hepatitis E IgG Hepatitis E IgM Serion anti – Rubella IgM Syphilis IgM Coxiella burnetti Phase 2 IgM	Dynex DS2® enzyme-linked immunosorbent assay (ELISA) SOP: M-596 SOP: M-1730 SOP: M-1731 SOP: M-470 SOP: M-435 SOP: M-596 SOP: M-468	A
Serum	HIV DUO Quick– p24,IgG,IgM Anti HBc Total II CMV IgG Avidity II VZV IgG HBsAg Confirmation Anti-HCV Toxoplasma IgM Syphilis Reagin Antibodies Treponema pallidum HIV 1 & 2 Confirmation	bioMérieux VIDAS® Enzyme Linked Fluorescent Assay (ELFA) SOP: M-460 SOP: M-457 SOP: M-459 SOP: M-462 SOP: M-476 SOP: M-675 SOP: M-437 SOP: M-585 OMEGA Diagnostics IMMUTREP Rapid Plasma Reagin Test Kit SOP: M-471 SERODIA®-TP·PA Kit. Particle agglutination assay. SOP: M-434 Geenius SOP: M-1330	A



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	<u>Serology (cont'd)</u>		
Serum or plasma	Hepatitis E RNA	Altona RealStar® HEV RT-PCR Kit 2.0	A
Serum	VZV IgG	Liaison XL 2-step immunoassay SOP: M-1329 SOP: M-486	A
	EBV VCA IgG	SOP: M-483	
	EBV IgM	SOP: M-1326	
	B19 IgG	SOP: M-482	
	B19 IgM	SOP: M-484	
	Measles IgG	SOP: M-480	
	Borrelia IgG	SOP: M-478	
	Borrelia IgM	SOP: M-479	
END			