


Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

 UKAS MEDICAL 9756 Accredited to ISO 15189:2012	Liverpool University Hospitals NHS Foundation Trust	
	Issue No: 004 Issue date: 04 May 2023	
	Department of Medical Microbiology Mount Vernon Street Liverpool L7 8YE United Kingdom	Contact: Ines Santos Tel: +44 (0)151 706 4374 Fax: +44 (0)151 706 5849 E-Mail: Ines.Santos@liverpool.nhs.uk Website: www.liverpoolcl.nhs.uk

Testing performed by the Organisation at the locations specified below

Locations covered by the organisation and their relevant activities

Laboratory locations:

Location details Medical Microbiology Department	Activity : Medical Microbiology	Location code
Address: Clinical Sciences Services Building Royal Liverpool Hospital Liverpool University Hospitals Foundation Trust Mount Vernon Street Liverpool L7 8YE United Kingdom	Local contact: Ines Santos Microbiology	A



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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 TISSUES AND FLUIDS	<u>Microbiology examination activities for the purpose of clinical diagnosis</u>	Procedures documented in manufacturers equipment manuals in conjunction with documented in-house procedures by the following methods:	A
Cellular and fluid material contained on swabs (Eye, throat, wounds, ear, nose, skin, mouth) Fluids & pus Tissues & biopsies Genital samples Aspirates Samples from sterile sites Sterile fluids including Cerebrospinal fluid Faeces/ rectal swabs Cannulae/tips Respiratory samples (e.g. Sputum, BALs)	General isolation of micro-organisms of clinical significance	Manual or automated (Kiestra Inoqula) inoculation followed by culture using SOPs: Cystic Fibrosis I&I-MM-SOP96 Wound swabs I&I-MM-SOP61, I&I-MM-SOP51 I&I-MM-SOP83 I&I-MM-SOP97. ENT I&I-MM-SOP17, 18, 19, 20, 21, 44. Kiestra Inoqula manual I&I-MM-EXTD18 Tissues and biopsies I&I-MM-SOP83 Urogenital bench I&I-MM-SOP82 GUM bench I&I-MM-SOP56 Respiratory I&I-MM-SOP23 Intraocular fluid I&I-MM-SOP24 Faeces I&I-MM-SOP10 CSF I&I-MM-SOP52 CSF and associated specimens I&I-MM-SOP53	A
Blood and fluids from sterile sites.	Isolation of microorganisms of clinical significance	Liquid media culture using automated continuous monitoring system using: BacTAlert and BacTec and: Blood cultures I&I-MM-SOP16	A



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN TISSUES AND FLUIDS (cont'd)	<u>Microbiology examination activities for the purpose of clinical diagnosis (cont'd)</u>	Procedures documented in manufacturers equipment manuals in conjunction with documented in-house procedures by the following methods:	
Urine	Quantification of white and red blood cells, bacteria and epithelial cells	Manual or Automated urine analysis using IQ 200 Sprint and SOP Urines I&I-MM-SOP55	A
Cerebrospinal fluid, Joint fluids, ascetic fluids.	Quantification of white and red blood cells and bacteria	Microscopy (inc Gram Staining) : I&I-MM-SOP53 I&I-MM-SOP100	A
Urine	Quantification of white and red blood cells, bacteria and epithelial cells	Manual or Automated urine analysis using IQ 200 Sprint and SOP Urines I&I-MM-SOP55	A
Urine	General isolation of micro-organisms of clinical significance	Automated Mast Uri System and Urines I&I-MM-SOP55	A
Joint fluids	Detection of crystals	I&I-MM-SOP102	A
Cellular and fluid material contained on swabs	Screening for Methicillin-Resistant <i>Staphylococcus aureus</i> (MRSA)	Manual or automated (Kiestra Inoqula) inoculation followed by culture using SOPs:	A
	Screening for Methicillin-Sensitive <i>Staphylococcus aureus</i> (MSSA)	MRSA Screening I&I-MM-SOP46 LHCH CPS SOP: I&I-MM-SOP50	
Cellular and fluid material contained on swabs	Resistance screening for CPE, ESBL,VRE, Ciprofloxacin resistance	Manual inoculation or automated (Kiestra Inoqula) followed by culture using SOPs: LHCH CPS I&I-MM-SOP50 Multi Drug Resistant organism screen I&I-MM-SOP86 NICU Admissions screen I&I-MM-SOP47 NICU Weekly screen I&I-MM-SOP48	A



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HUMAN TISSUES AND FLUIDS (cont'd)	<u>Microbiology examination activities for the purpose of clinical diagnosis (cont'd)</u>	Procedures documented in manufacturers equipment manuals in conjunction with documented in-house procedures by the following methods:	
Respiratory samples Urine CSF Sputum Brochoalveolar Lavages Pus Faeces Body Fluids/Aspirates Skin/Tissues PM material Laryngeal Swabs Gastric Lavage	Isolation and presumptive identification of Acid-alcohol fast bacilli (inc. <i>Mycobacterium</i> spp.)	Automated culture using BD MGIT and BDFX module: Manual culture on Lowenstein-Jensen medium: Auramine phenol staining and fluorescent microscopy. Ziehl-Neelsen stain and light microscopy: SOP Mycobacteria I&I-MM-SOP22	A
Skin Nail Hair Cellular and fluid material contained on swabs	General isolation and characterisation of clinically significant fungi	Manual culture and fluorescent microscopy using Calcofluor White stain using SOP: Mycology Bench I&I-MM-SOP64 Fungal microscopy I&I-MM-SOP63	A
Cultures isolated in-house from all samples listed above.	Identification of microorganism of clinical significance.	Automated Matrix-assisted laser desorption/ionisation (MALDITOF) using: Malditof I&I-MM-SOP72 Biochemical profile determination using: I&I-MM-SOP100(API) Conventional identification methods including biochemical and latex agglutinations: Organism identification I&I-MM-SOP92 Organism identification test procedures: I&I-MM-SOP100	A



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HUMAN TISSUES AND FLUIDS (cont'd)	<u>Microbiology examination activities for the purpose of clinical diagnosis (cont'd)</u>	Procedures documented in manufacturers equipment manuals in conjunction with documented in-house procedures by the following methods:	
Cultures isolated in house from all samples listed above.	Antimicrobial susceptibility testing of clinically significant bacteria	Manual disc diffusion and/or automated methods using EUCAST methodology: Sensitivity Bench I&I-MM-SOP89 ESBL DMS 1890 Gradient MIC determination by E-test and M.I.C.E: I&I-MM-SOP89 DMS 1824	A
Fungal cultures isolated in house from samples listed above	Antifungal susceptibility testing of yeasts of clinical significance	Sensititre YeastOne ThermoScientific YO10 by colourimetric microdilution I&I-MM-SOP98	A
Cultures isolated in house from all samples listed above.	Identification of Staphylococcal isolates	Pro-Lab Staph Xtra latex I&I-MM-SOP100	A
Cultures isolated in house from all samples listed above.	Serological identification of groups A, B, C, D, F and G of the Lancefield groups of Streptococci grown on agar plates	Pro-Lab Prolex Strep grouping kit I&I-MM-SOP100	A
Cultures isolated in house from the above	Detection of <i>Salmonella</i> polyvalent 'O' (PSO) and <i>Salmonella</i> polyvalent 'H' (PSH); <i>Shigella</i> species; <i>Vibrio</i> species.	Agglutination using ThermoFisher antisera: I&I-MM-SOP92, I&I-MM-SOP10	A
Cultures isolated in house from the above	Identification of <i>E. coli</i> O157	E.coli O157 Oxoid Latex Test: I&I-MM-SOP10	A
Cultures isolated in house from the above	Identification of <i>Campylobacter</i> species and <i>Yersinia</i> species	Light microscopy and Gram stain using: I&I-MM-SOP100	A



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HUMAN TISSUES AND FLUIDS (cont'd)	<u>Microbiology examination activities for the purpose of clinical diagnosis (cont'd)</u>	Procedures documented in manufacturers equipment manuals in conjunction with documented in-house procedures by the following methods:	
Faeces and urine	Detection of ova, cysts and parasites (OCP)	Concentration and light microscopic examination using Evergreen Faecal Parasite Concentrator method: I&I-MM-SOP10	A
Faeces	Detection of <i>Cryptosporidium</i> oocysts	Auramine Phenol stain for <i>Cryptosporidium</i> and fluorescent microscopy: I&I-MM-SOP10	A
Faeces	Detection of <i>Cyclospora</i> and <i>Isospora</i> oocysts	Cold ZN stain and light microscopy: I&I-MM-SOP-10	A
Sellotape slide/perianal swab	Detection of <i>Enterobius vermicularis</i>	Light Microscopy using: I&I-MM-SOP-10	A
Urine	Detection of <i>Schistosoma spp</i>	Concentration using centrifugation and examination of deposit using light microscopy using I&I-MM-SOP10	A
Faeces	Detection of <i>C. difficile</i> GDH antigen.	Alere Tech Lab C.Diff Quik Chek Complete kit : I&I-MM-SOP11	A
Faeces	Detection of <i>C. difficile</i> toxin A&B	Alere Tech Lab C.Diff Quik Chek Complete kit : I&I-MM-SOP11	A
Blood Serum CSF Blood Culture			A



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HUMAN TISSUES AND FLUIDS (cont'd)	<u>Microbiology examination activities for the purpose of clinical diagnosis (cont'd)</u>	Procedures documented in manufacturers equipment manuals in conjunction with documented in-house procedures by the following methods:	
Urine	Legionella screening	Binax Now Legionella kit using SOP: I&I-MM-SOP87	A
Urine	Pneumococcal screening	Binax Now Strep pneumo kit using SOP: I&I-MM-SOP87	A
CSF Blood Serum	Detection of Cryptococcal antigen.	CRAG LFA Cryptococcal antigen lateral flow assay using: I&I-MM-SOP15	A
Genital samples	WBCs, Clue Cells and Bacterial vaginosis	Microscopy (including Gram staining and wet preparation using: I&I-MM-SOP82 I&I-MM-SOP80	A
Corneal impression membrane, Corneal scrape Contact lenses solution	Detection of <i>Acanthamoeba spp</i>	Culture and microscopy using I&I-MM-SOP044	A



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HUMAN TISSUES AND FLUIDS (cont'd)	<u>Molecular examination activities for the purpose of clinical diagnosis (cont'd)</u>		
Respiratory samples Urine CSF Sputum Brochoalveolar Lavages Pus Faeces Body Fluids/Aspirates Skin/Tissues PM material Laryngeal Swabs Gastric Lavages	Mycobacterial DNA MultiDrug Resistance Genes Common Mycobacterial species	Hain Fluorotype MTB PCR Hain Genotype MTBDRplus Hain Genotype Mycobacterium CM : I&I-MM-SOP34	A
Cellular and fluid material contained on swabs	Detection of DNA: Carbapenemase producing Enterobacteriaceae (CPE) Methicillin resistant <i>Staphylococcus aureus</i> (MRSA)	Real time PCR Cepheid GeneXpert PCR using SOP: I&I-MM-SOP9	A
Faeces	Gene detection for Toxin A&B of toxigenic <i>Clostridium difficile</i>	I&I-MM-SOP11 I&I-MM-SOP9	A
In house cultures of <i>Ps.aeruginosa</i>	Detection of <i>pseudomonas</i> types (for cross infection and cohorting)	Biosystems GeneAmp PCR system 2700 using: I&I-MM-SOP57	A
Extracted DNA (from UKAS accredited laboratory 9755)	Detection of <i>Brucella</i> spp DNA	Real time Multiplex PCR Roche Light cyclers 480 I&I-MM-SOP-129	A
Cultures isolated in house from samples listed above.	Detection and identification of bacterial DNA and sequencing of the 16s rRNA gene	DNA/RNA extraction using Roche Magna Pure followed by sequencing and analysis using ABI 2700 Thermal Cyclers and ABI 3500 Genetic analyser. I&I-MM-SOP-35	A
END			