


# Schedule of Accreditation

issued by

## United Kingdom Accreditation Service

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

 <p><b>UKAS</b> MEDICAL</p> <p>8514</p> <p>Accredited to ISO 15189:2012</p>	<p><b>NHS Greater Glasgow &amp; Clyde</b></p> <p>Issue No: 008 Issue date: 16 May 2024</p>	
	<p>Scottish Microbial Reference Laboratory</p> <p>5th Floor</p> <p>New Lister Building</p> <p>Glasgow Royal Infirmary</p> <p>10-16 Alexandria Parade</p> <p>Glasgow</p> <p>G31 2ER</p>	<p>Contact: Professor Alistair Leanord</p> <p>Tel: +44 (0)1412 429646</p> <p>E-mail: alistair.leanord@ggc.scot.nhs.uk</p>
<p>Testing performed at the above address only</p>		

### DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
REFERRED MICROBIOLOGICAL CULTURES	<p><u>Microbiology</u></p> <p><u>Examinations for the purpose of clinical diagnosis</u></p> <p>Determination of antibiotic MIC</p> <p>Identification of <i>Shigella</i> Enteropathogens</p>	<p>In House documented methods based on UK Standards for Microbiology Investigations' (SMIs)</p> <p>Using culture media and E-Test strips (BioMerieux), (SSRL_SOP_140) (SSCDRL_SOP_145)</p> <p>Using commercial biochemical kits(RL-LP23)</p>



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<p>REFERRED MICROBIOLOGICAL CULTURES (cont'd)</p>	<p><u>Microbiology Examinations for the purpose of clinical diagnosis</u> (cont'd)</p> <p>Ribotyping of <i>C. difficile</i></p> <p>Genotyping of <i>S.aureus</i></p> <p>Determination of antibiotic MIC (MRSA)</p>	<p>In House documented methods based on UK Standards for Microbiology Investigations' (SMIs)</p> <p>By conventional end-point PCR using GeneAmp 9700 (Applied Biosystems) thermocycler, gel electrophoresis &amp; Digital Camera (Bio-Rad). SSCDRL-SOP-143</p> <p>By SPA typing (polymorphic locus sequence based method of strain characterisation &amp; analysis using a 3500XL Genetic Analyser (Applied Biosystems &amp; Ridom software). (SMRSA_LP075.)</p> <p>Using culture media, E-Test (BioMerieux) &amp; M.I.C.E. Evaluator strips (Liofichem), (RL-LP22)</p>



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REFERRED MICROBIOLOGICAL CULTURES (cont'd)	<u>Microbiology</u> <u>Examinations for the purpose of clinical diagnosis</u> (cont'd)	In House documented methods based on UK Standards for Microbiology Investigations' (SMIs)
Faeces	<u>Parasitology</u>  Identification of Cryptosporidium oocysts	Using Concentration centrifugation, auramine-phenol staining and fluorescent microscopy. (SPDRL-MI01)
Referred EDTA-whole blood	Malaria speciation • P. falciparum, • P. ovale, • P. vivax, P. malariae	Using Manual DNA extraction kit reagents (in-house PCR reagents Real-Time PCR, using LightCycler 480 (Roche) Real-Time PCR system SPDRL- -SOP-P001
Faeces	Detection of <i>C.hominis</i> and <i>C.parvum</i> DNA	Manual DNA extraction kit reagents centrifuge, real-time PCR. using LightCycler 480 (Roche) Real-Time PCR system (SPDRL-SOP-P001)
Faeces	DNA GP60 Subtyping of <i>C.hominis</i> and/or <i>C.parvum</i>	Manual DNA extraction kit reagents (conventional PCR using GeneAmp 9700 (Applied Biosystems) thermocycler, gel electrophoresis. Then sequenced using a 3500xL Genetic Analyser (Applied Biosystems) (SPDRL-SOP-P002)



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HUMAN BODY FLUIDS AND TISSUES (cont'd)	<u>Microbiology</u> <u>Examinations for the purpose of clinical diagnosis</u> (cont'd)	In House documented methods based on UK Standards for Microbiology Investigations' (SMIs)
Urine	<i>Legionella</i> spp. urinary Ag.	<i>Legionella</i> urinary antigen detection using ELISA, spectrophotometer, pipettes, microtitre plate washer. (SHLMPRL_SOP_012 and (SHLMPRL_SOP_014)
Sputum, tracheal aspirate, bronchial lavage, post mortem lung	<i>Detection of Legionella</i> spp.	Culture of <i>Legionella</i> spp using culture media, water bath, moist chamber. (RL-LP11)
	Identification of: <i>Legionella. pneumophila</i> Sg1, Sg2-14 <i>Legionella</i> species	Using culture media, latex agglutination (Oxoid). and U/V lamp. (RL-LP6)
	Antimicrobial susceptibility and MIC for <i>Neisseria meningitidis</i> & <i>Strep.pneumoniae</i> .	Using of culture media, E-Test (BioMerieux) & M.I.C.E. Evaluator strips (Oxoid) AST (RL-LP25) BRIS (RL-LP15)
	Confirmation of <i>N.meningitidis</i> (B, ACY, W1350,	Using culture media and agglutination: (SHLMPRL_SOP_056) <i>N.meningitidis</i> B/ (Wellcogen-Oxoid- Latex), <i>N. meningitides</i> ACY W135 (Wellcogen-Oxoid – Latex) (SHLMPRL-SOP- 60 and 61)
	<i>S.pneumoniae</i>	<i>S. pneuminae</i> co-agglutinating reagents using certified antisera from Statens Serum Institute (SHLMPRL_SOP_065, <i>Haemophilus influenzae</i> agglutinating sera (Remel-Oxoid) (SHLMPRL_MED_033) (SHLMPRL_SOP_055)
	<i>H.influenzae</i> .	



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HUMAN BODY FLUIDS AND TISSUES (cont'd)	<u>Microbiology</u> <u>Examinations for the purpose of clinical diagnosis</u> (cont'd)  <i>Subtyping of</i> <ul style="list-style-type: none"> <li>• <i>H. influenzae,</i></li> <li>• <i>Legionella. species</i></li> </ul> <i>Invasive Group A Streptococci</i> <i>S. pneumoniae.</i>	In House documented methods based on UK Standards for Microbiology Investigations' (SMIs)  DNA, extraction and PCR performed using ABI 2720 (Applied Biosystems) thermocycler MLST performed using a 3500xL Genetic Analyser (Applied Biosystems), RL-LP28 (isolates) and SHLMPRL_SOP_083 (clinical samples), (SHLMPRL_SOP_100)
Referred microbiological cultures	Detection of <i>N. meningitidis,</i> <i>S. pneumoniae</i> <i>H.influenzae.</i>	By Multiplex PCR, using LightCycler 480 (Roche) Real-Time PCR system to detect bacterial DNA in clinical samples of whole blood, serum and CSF. (RL-LP2)
Serum	Genotyping of <i>Neisseria spp Haemophilus spp</i> <i>Strep. pneumococci</i>  <u>Serology examinations for the purpose of clinical diagnosis</u>  Serology: Detection of <i>Bordetella pertussis</i> IgG	DNA sequencing using 3500xL sequencer (Applied Biosystems) & CLC software. (SHLMPRL_SOP_158 and 109)  using Virion Serion ELISA and DS2 automated system SHLMPRL_SOP_015
Whole blood Serum CSF Stools Respiratory samples Ocular specimens	<u>Molecular examinations for the purpose of clinical diagnosis</u>	Automated DNA extraction  NucliSENS easyMAG (biomerieux) extraction platform SPDRL-SOP-2
Bacterial cultures (overnight culture plates or broths)		Qiagen Symphony extraction platform coupled with Qiagen Symphony with DSP DNA minikit SSSCDRL_SOP_002



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Referred Isolates of carbapenemase-producing organisms (CPO)	Molecular <u>examinations for the purpose of clinical diagnosis</u> (cont'd)	
	Identification of carbapenemase resistance genes (IMP, KPC, OXA-48, NDM & VIM)	RT-PCR using the Qiagen Rotor-Gene –Q SSSCDRL_SOP__005
Sputum Tracheal aspirates, bronchial lavage PM lung tissue DNA extracts	Detection of <i>Legionella</i> species and <i>Legionella pneumophila</i>	RT-PCR using the ABI Prism 7500 SHLMPRL-SOP-165
DNA extracts from bacterial cultures	<i>Salmonella</i> <i>Shigella</i>	Illumina MiSeq and Nextera XT DNA library preparation kits. SSSCDRL_SOP_003  Whole Genome sequence analysis SSSCDRL_SOP_006
END		