


Schedule of Accreditation

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United Kingdom Accreditation Service

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

 8514 Accredited to ISO 15189:2012	NHS Greater Glasgow & Clyde Issue No: 007 Issue date: 24 March 2023	
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Testing performed at the above address only

DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
REFERRED MICROBIOLOGICAL CULTURES	<u>Microbiology</u> <u>Examinations for the purpose of clinical diagnosis</u>	In House documented methods based on UK Standards for Microbiology Investigations' (SMIs)
	Identification and confirmation of HG3 isolates <i>Shigella</i>	Agglutination tests against known antisera, using slides, microtitre plates or tubes. (SSSCDRL_SOP_031 and SSRL_SOP_148)
	Determination of antibiotic MIC	Using culture media and E-Test strips (BioMerieux), (SSRL_SOP_140) (SSSCDRL_SOP_145)
	Identification of <i>Shigella</i> Enteropathogens	Using commercial biochemical kits(RL-LP23)



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



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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)
	<u>Parasitology</u>	
Faeces	Identification of Cryptosporidium oocysts	Using Concentration centrifugation, auramine-phenol staining and fluorescent microscopy. (SPDRL-MI01)
EDTA-whole blood	Identification of blood parasites Malaria <ul style="list-style-type: none"> • <i>P. falciparum</i> • <i>P. ovale</i> • <i>P. vivax</i> • <i>P. malariae</i> 	Using thin films (Giemsa stain) & light microscopy (SPDRL-SOP-B12)
Referred EDTA-whole blood	Malaria speciation <ul style="list-style-type: none"> • <i>P. falciparum</i>, • <i>P. ovale</i>, • <i>P. vivax</i>, • <i>P. malariae</i> 	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</i> . pneumophila 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. meningitidis</i> ACY W135 (Wellcogen-Oxoid – Latex) (SHLMPRL-SOP- 60 and 61)
	<i>S.pneumoniae</i>	<i>S. pneumoniae</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"> <i>H. influenzae,</i> <i>Legionella. species</i> <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)
	Genotyping of <i>Neisseria spp Haemophilus spp</i> <i>Strep. pneumococci</i>	DNA sequencing using 3500xL sequencer (Applied Biosystems) & CLC software. (SHLMPRL_SOP_158 and 109)
Serum	<u>Serology examinations for the purpose of clinical diagnosis</u> Serology: Detection of <i>Bordetella pertussis</i> IgG	using Virion Serion ELISA and DS2 automated system SHLMPRL_SOP_015
	<u>Molecular examinations for the purpose of clinical diagnosis</u>	Automated DNA extraction
Whole blood Serum CSF Stools Respiratory samples Ocular specimens		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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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)
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		