Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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



DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
REFERRED MICROBIOLOGICAL CULTURES	Microbiology Examinations for the purpose of clinical diagnosis Determination of antibiotic MIC	In House documented methods based on UK Standards for Microbiology Investigations' (SMIs)' Using culture media and E-Test strips (BioMerieux), (SSRL_SOP_140) (SSSCDRL_SOP_145)
	Enterobacterales & Non- fermentative Gram-negative rods for determination of antibiotic MIC	Broth Microdilution AST using the Bioconnections Micronaut System (RL-LP10)
	H. influenzae isolates for determination of antibiotic MIC	MIC determination using commercially available antibiotic gradient strips (RL-LP25)
	Identification of <i>Shigella</i> Enteropathogens	Using commercial biochemical kits(RL-LP23



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



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REFERRED MICROBIOLOGICAL CULTURES (cont'd)	<u>Microbiology</u> Examinations for the purpose of <u>clinical diagnosis</u> (cont'd)	In House documented methods based on UK Standards for Microbiology Investigations' (SMIs)
	Parasitology	
Faeces	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 SPDRLSOP-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 C.hominis and/or C.parvum	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)
Micro-organism DNA Extracts	Identification of Salmonella species	RT-PCR using Roche LightCycler 480 (RL-LP53)



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HUMAN BODY FLUIDS AND TISSUES (cont'd)	<u>Microbiology</u> Examinations for the purpose of <u>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	Detection of Legionella spp.	Culture of Legionella spp using culture media, water bath, moist chamber. (RL-LP11)
	Identification of: Legionella. pneumophila Sg1, Sg2- 14 Legionella 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 N.meningitidis (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 Overid – Leter)
	S.pneumoniae	(Wellcogen-Oxold – Latex) (SHLMPRL-SOP- 60 and 61) S. pneuminiae co-agglutinating reagents using certified antisera from Statens Serum Institute
	H.influenzae.	(SHLMPRL_SOP_065, Haemophilus influenzae agglutinating sera (Remel-Oxoid) (SHLMPRL_MED_033) (SHLMPRL_SOP_055)



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	Subtyping of	DNA, extraction and PCR performed using ABi 2720 (Applied Bisystems) thermocylcer MLST performed using a 3500xL Genetic Analyser (Applied Biosystems), RL-LP28 (isolates) and SHLMPRL_SOP_083 (clinical samples), (SHLMPRL_SOP_100)
	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)
Referred microbiological cultures	Genotyping of Neisseria spp <i>Haemophilus spp</i> Strep. pneumococci	DNA sequencing using 3500xL sequencer (Applied Biosystems) & CLC software. (SHLMPRL_SOP_158 and 109)
	Serology examinations for the purpose of clinical diagnosis	
Serum	Serology: Detection of <i>Bordetella pertussis</i> IgG	using Virion Serion ELISA and DS2 automated system SHLMPRL_ SOP_ 015
	Molecular <u>examinations for the</u> purpose of clinical diagnosis	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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	Molecular <u>examinations for the purpose of clinical diagnosis</u> (cont'd)	
Referred Isolates of carbapenemase-producing organisms (CPO)	Identification of carbapenemase resistance genes (IMP, KPC, OXA- 48, NDM & VIM)	RT-PCR using the Qiagen Rotor- Gene –Q SSSCDRL_SOP005
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
Micro-organism DNA Extracts	Identification of: Staph aureus & Veterinary Staphylococcal species Acinetobacter species	RT-PCR using the ABI7500 (Applied Biosystems) (RL-LP45 & RL-LP46)
DNA extracts from bacterial cultures	Salmonella Shigella	Illumina MiSeq and Nextera XT DNA library preparation kits. SSSCDRL_SOP_003
		Whole Genome sequence analysis SSSCDRL_SOP_006
Micro-organism DNA Extracts	Identification of S. pneumoniae, N. meningitidis & C. difficile	Whole Genome Sequence Analysis using RL-LP50 Illumina DNA Prep (M) Tagmentation Kit & Illumina Miseq (RL-LP50) (RL-LP51)
END		