


Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

 9810 Accredited to ISO 15189:2012	St George's University Hospitals NHS Foundation Trust	
	Issue No: 005 Issue date: 28 July 2023	
	Division of Infection and Immunity Department of Medical Microbiology South West London Pathology St George's University Hospital Blackshaw Road Tooting London SW17 0QT	Contact: Jamie Laughlin Tel: +44 (0) 7718174714 E-Mail: Jamie.Laughlin@stgeorges.nhs.uk Website: www.swlpath.nhs.uk
Testing performed at the locations as specified below		

Location details		Activity	Location code
Microbiology Department and Emergency Department (ED) St George's University Hospital Tooting London SW17 0QT	Local contact As above	Microbiology Serology Virology Molecular	SWLP Hub Site SGH
Essential Services Laboratory Pathology Royal National Orthopaedic Hospital Stanmore HA7 4LP	Local contact Juliette Gevao Spoke manager	Specimen reception Microbiology – limited service	SWLP Spoke RNOH
Biochemistry Department Kingston Hospital Galsworthy Road Kingston Upon Thames Surrey KT2 7QB	Local contact David McIntyre Spoke manager	Specimen reception Serology Virology – limited service	SWLP Spoke Site KHT
Biochemistry Department Croydon University Hospital 530 London Road Thornton Heath Surrey CR7 7YE	Local contact Frederick Mpambire Spoke manager	Specimen reception Serology Virology – limited service	SWLP Spoke Site CUH



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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 (unless specified)	<u>Microbiology examination activities for the purposes of clinical diagnosis</u>	Documented in-house methods and manufacturer's operating instructions	Site SGH
Urine	Detection, identification and quantification of: White blood cells, Red blood cells, Squamous epithelial cells, Bacterial cells, parasites, Casts and Spermatozoa	Manual microscopy using an inverted microscope BSOP020	
Urine	Automated cell count	IRIS DxU 850m: Automated urinalysis, BSOP 147	
Urine VBU	Isolation of bacterial and fungal species of clinical significance	Manual inoculation and media culture inc chromogenic media BSOP020	
Urine culture	Isolation of bacterial and fungal species of clinical significance; direct susceptibility testing and identification tests	MAST Urisystem BSOP105	
Urine	Detection of <i>Schistosoma haematobium</i> ova	Manual microscopy using an inverted microscope BSOP020	
Urine	Detection of <i>Legionella pneumophila</i> serogroup 1 antigen	Lateral Flow EIA Device Manual immunochromatographic assay – Alere Binax Now Legionella urinary antigen BSOP085 Legionella Urine Antigen	
Urine CSF	Detection of Pneumococcal soluble antigen	Lateral Flow EIA Device Manual immunochromatographic assay – Alere Binax Now Streptococcus pneumoniae antigen BSOP086 Pneumococcal Antigen	



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<p>HUMAN BODY FLUIDS AND TISSUES (cont'd)</p> <p>Routine non sterile and sterile specimens with the inclusion of Pus, Tissues/Biopsies, Fluids (e.g. Joint, drain, pleural, Ascitic, peritoneal, pericardial, Amniotic, Bile, CSF), Bone, Aspirates / Vesical fluid and Bone Marrow, Tips and IUCD</p> <p>Tissue, Fluids, Corneal scrapes, CSF</p>	<p><u>Microbiology examination activities for the purposes of clinical diagnosis (cont'd)</u></p> <p>Detection, identification and quantification of: White blood cells Bacterial cells Yeast cells and fungal hyphae</p> <p>Differentiation of different organism types: gram positive/negative/variable, branching organisms, yeasts</p>	<p>Documented in-house methods and manufacturer's operating instructions</p> <p>Manual inoculation and media culture Staining (inc. Gram) and microscopic examination using Light microscopy Cell count using FastRead®102 cell</p> <p>BSOP089 Ascitic fluids BSOP118 CAPD fluids BSOP039 ENT Bench BSOP013 CSF Bench BSOP037 HVS BSOP003 Tissues, Biopsies And Associated Specimens BSOP066 Bile BSOP068 Bone Marrow BSOP114 Prosthetic Joint and Related Specimens BSOP108 BD FX BSOP116 BDFX40 BSOP043 Gastric biopsies for H.pylori BSOP060 fluids from normally sterile sites BSOP059 abscesses, post-operative wounds and deep-seated infections BSOP067 sinus aspirates BSOP068 bone marrow BSOP069 transplant fluids</p> <p>Light microscopy Gram staining BSOP089 Ascitic fluids BSOP118 CAPD fluids BSOP013 CSF Bench</p>	<p>Site SGH</p>



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<p>HUMAN BODY FLUIDS AND TISSUES (cont'd)</p> <p>Respiratory samples Sputum, Bronchial Alveolar lavage (BAL), Nasopharyngeal Aspirate, Swabs,</p> <p>Swabs (Wound swabs, Skin, Ear, Nose, Cervical, Eye, Mouth, Rectal, Sub-prep, Throat, Urethral and Vaginal)</p> <p>Tips</p> <p>Genito urinary medicine (GUM) direct taken samples</p>	<p><u>Microbiology examination activities for the purposes of clinical diagnosis (cont'd)</u></p> <p>Isolation and characterisation of bacterial and fungal isolates of clinical significance</p> <p>Isolation and characterisation of bacterial and fungal isolates of clinical significance</p> <p>Isolation and characterisation of bacterial and yeast isolates of clinical significance</p>	<p>Documented in-house methods and manufacturer's operating instructions</p> <p>Manual inoculation and media culture BSOP004 Kiestra TLA: incubation and image capture of routine and chromogenic culture media</p> <p>Using Kiestra TLA: Inoculation, incubation and image capture of routine and chromogenic culture media BSOP072 skin and superficial wound swabs BSOP037 - HVS BSOP102 Kiestra TLA BSOP039 ENT</p> <p>Using Kiestra TLA: incubation and image capture of routine and chromogenic culture media BSOP102 Kiestra TLA BSOP011</p> <p>Manual light Microscopy BSOP127 - Genital Specimen Investigation and Handling in the GUM Clinic for Microbiology BSOP040 - Specimens from Genito-Urinary Medicine Clinics</p>	<p>Site SGH</p>



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HUMAN BODY FLUIDS AND TISSUES (cont'd)	<u>Microbiology examination activities for the purposes of clinical diagnosis (cont'd)</u>	Documented in-house methods and manufacturer's operating instructions	Site SGH
MRSA swabs	Detection of MRSA	KIESTRA TLA: Inoculation, incubation and image capture of culture media	
Urines		BSOP102 Kiestra TLA	
Sputum	Detection of VRE/GRE (Glycopeptide Reistant Enterococci)	BSOP007 MRSA screening	
VRE swabs		BSOP007 MRSA screening	
Gram negative screening swabs	Gram negative screening	BSOP088 VRE/GRE screening	
		BSOP090 Gram negative screening	
Bacterial isolates	Rapid detection and differentiation of the KPC, NDM, VIM, IMP, OXA-48 carbapenemases	Biotech CARB-5 for Carbapenemases immunodiffusion assay	
		BSOP145 - PROCEDURE FOR NG-TEST CARBA 5	
Faeces	Isolation, identification and Antimicrobial Susceptibility of bacterial pathogens including:	Manual and automated biochemical and serological methods, Automated - BRUKER/BD MalDI-TOF by Matrix-assisted laser desorption/ionization, in conjunction with manufacturer's instructions.	
	Campylobacter spp.	BSOP012	
	Escherichia coli O157		
	Salmonella sp.		
	Shigella spp.		
	Vibrio spp.		
	Yersinia spp.		
	Pleisiomonas spp.		
	Aeromonas sp		



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HUMAN BODY FLUIDS AND TISSUES (cont'd)	<u>Microbiology examination activities for the purposes of clinical diagnosis (cont'd)</u>	Documented in-house methods and manufacturer's operating instructions	Site SGH
Skin scraping Nail clippings Hair samples	Isolation and identification of fungi of clinical significance Presence or absence of fungal elements	Manual culture, macroscopic examination Light microscope BSOP014	
Clinical isolates cultured in-house (inc. bacteria/yeasts/fungi)	Identification of microorganisms of clinical significance.	Bruker/BD MALDI-TOF Mass spectrometry ESOP029	
Bacterial and fungal isolates cultured in-house	Antimicrobial susceptibility testing (AST)	Manual antimicrobial susceptibility (disc diffusion) testing (EUCAST) Phoenix Automated AST and ETEST (gradient MIC) BSOP128-Eucast Antimicrobial Sensitivity testing BSOP104 BD Phoenix Automated AST	
Isolates of Staphylococcus aureus	Qualitative detection of the PVL-gene (Panton-Valentine Leukocidin) from cultures of Staphylococcus aureus	PSOP004 - RIDA® GENE PVL Real-time PCR assay using manual extraction. Using the Lightcycler 480 II.	



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HUMAN BODY FLUIDS AND TISSUES (cont'd)	<u>Microbiology examination activities for the purposes of clinical diagnosis (cont'd)</u>	Documented in-house methods and manufacturer's operating instructions	Site SGH
Genital swab Throat swab Rectal swab	Detection of <i>N.gonorrhoeae</i> / <i>N.meningitidis</i>	Manual antimicrobial susceptibility testing using the latest British Society for Antimicrobial Susceptibility Testing (BSAC) methodology BSOP128-EUCAST EXT 314 Agar Medium for Antimicrobial Susceptibility Testing of <i>Neisseria gonorrhoeae</i> EXT 143 BSAC Guidelines	
Whole Blood and sterile fluid (using aerobic anaerobic and paediatric bottles as per manufacturers instructions)	Culture and detection of microorganisms of clinical significance	Becton Dickinson BACTEC™ FX400 and FX40– liquid culture/fluorescent growth detection	SGH
		Becton Dickinson BACTEC™ FX40	RNOH
		BSOP010, BSOP108, BSOP116 Using both aerobic and anaerobic bottles as per manufacturers instructions	



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HUMAN BODY FLUIDS AND TISSUES (cont'd)	<u>Microbiology examination activities for the purposes of clinical diagnosis (cont'd)</u>	Documented in-house methods and manufacturer's operating instructions, where relevant	Site SGH
Faeces	Detection of: Salmonella enterica spp., Shigella spp./Enteroinvasive E. coli, Campylobacter jejuni/coli/lari, Cryptosporidium parvum/ hominis, Giardia lamblia and VTEC from human stool samples and Rotavirus A, Adenovirus F40/F41, Sapovirus, Astrovirus and Norovirus (GI and GII) from human stool samples	EntericBio PCR using EntericBio Workstation and Roche Light-Cycler 480 II with Gastro Panel 2 assay and the Enteric realtime Viral panel 3 (VP3) assay	
Faeces Sellotape slides/perianal swabs	Detection of <i>Enterobiius vemicularis</i>	Light microscopy BSOP124 Parasites	
Faeces, Bile, Pus Duodenal/jejunal aspirates Sputum/ Broncheolar Lavage CSF, Urine	Detection of ova, cysts and parasites (OCP)	Unstained and iodine stained direct microscopic examination and/or Formol-ether faecal concentration and microscopic examination - Parasep tubes BSOP124	
CSF, serum, plasma, whole blood (venous and finger stick)	Qualitative detection of the capsular polysaccharide antigens of Cryptococcus species complex (Cryptococcus neoformans and Cryptococcus gatti)	Lateral Flow Assay immunochromatographic test IMMY Cryptococcal antigen BSOP119	
Sputum, BAL, Joint Fluid, Pleural Fluid, CSF Tissues, Lymph Nodes Skin Specimens, FNA, Pus, Faeces, Bone, Biopsy	Presence or absence of Acid Fast Bacilli	UV microscopy Auramine stain microscopy BSOP008 <i>Mycobacterium</i> species	
Sputum, BAL, Urines, Joint Fluid, Pleural Fluid, CSF, Tissues, Lymph Nodes, Skin Specimens, FNA, Pus, Gastric Washings, Faeces, Bone, Biopsy	Isolation and presumptive identification of Mycobacterium species	Automated mycobacterial culture (Becton Dickinson MGIT) Fluorometric growth detection Manual culture using LJ slopes BSOP107 & BSOP008	



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HUMAN BODY FLUIDS AND TISSUES (cont'd)	<u>Microbiology examination activities for the purposes of clinical diagnosis (cont'd)</u>	Documented in-house methods and manufacturer's operating instructions, where relevant	Site SGH
Blood	Isolation of Mycobacterium species	BD FX40 BSOP008 <i>Mycobacterium</i> species BSOP116 BD FX40	
AFB smear positive BD MGIT tubes	Identification of Mycobacterium tuberculosis complex	Chromatographic immunoassay for the qualitative detection of Mycobacterium tuberculosis complex (MTBC) antigen form. BSOP122 BD MGIT TBc Identification	
Faeces	Detection of Clostridium difficile GDH antigen	Dynex DS2 Analyser ESOP028 Premier <i>C. difficile</i> GDH BSOP109	
Faeces	Detection of Clostridium difficile Toxin A + B	Dynex DS2 Analyser ESOP028 Enzyme Immunoassay Techlab TOX A/B II EIA BSOP109	
Faeces	Detection of Clostridium difficile GDH and toxin	Manual TECHLAB® C.DIFF QUIK CHEK COMPLETE® test (lateral flow) BSOP110	



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Faeces	Qualitative detection of Adenovirus and Rotavirus antigen	Lateral Flow EIA Device Manual immunochromatographic assay ROTA_ADENO Kit BSOP125 Proflow™ Rotavirus-Adenovirus Combi	
Serum and Broncheollar lavage (BAL) samples	IMMY sōna Aspergillus Galactomannan Lateral Flow Assay (LFA) immunochromatographic test system for the qualitative detection of Aspergillus galactomannan in serum and bronchoalveolar lavage (BAL) samples.	BSOP138 -Procedure for Asperfillus Lateral Flow	
Whole blood	Liaison QuantiFERON TB Gold Plus assay	BSOP144 - Liaison QuantiFERON TB Gold Plus	
Faeces	DiaSorin LIAISON® Meridian H. pylori SA assay Detection of Helicobacter pylori stool antigen	BSOP141- Investigation of Helicobacter pylori Antigen in Faeces Enzyme Immunoassay (EIA) – Premier Platinum HpSA PLUS kit on Dynex DS2 ESOP028 BSOP101 Detection of Helicobacter pylori Antigens in Stool Documented in house methods and manufacturers operating instructions, where relevant	



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HUMAN BODY FLUIDS AND TISSUES (cont'd)	<u>Serological examination activities for the purposes of clinical diagnosis</u>	Documented in-house methods and manufacturer's operating instructions, where relevant	Site SGH
<u>Serum</u> capillary blood	HIV Tendigo	VSOP086 - FUJIREBIO INNO-LIA® HIV I/II SCORE TESTING ON TENDIGO®	
	HIV 1/2 Ag / Ab antigen/antibody 4 th		
Serum & capillary blood	Syphilis total antibody EIA Hepatitis A total Hepatitis A IgM Hepatitis B core antibody Biotin Hepatitis B core IgM antibody Hepatitis B e-antibody Hepatitis B surface antibody Hepatitis C antibody Rubella IgG antibody Rubella IgM antibody Syphilis antibody Toxoplasma IgG antibody Toxoplasma IgM antibody CMV IgG antibody CMV IgM antibody Hepatitis B e-antigen Hepatitis B surface antigen HSV-1 type specific antibody HSV-2 type specific antibody	Roche Cobas e801 on c8000 VSOP072 Use and Maintenance of COBAS 8000 Roche Analyser Series	SGH
serum	Roche Cobas 8000/8100 e801 HIV antigen and antibody (HIV DUO)	Roche Cobas e801 on c8000 VSOP072 Use and Maintenance of COBAS 8000 Roche Analyser Series	CUH SGH



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Clotted blood	Detection of Anti-streptolysin O titre	Roche c702 on COBAS® 8000 track VSOP008	
Serum	Detection of: Bordetella pertussis IgG and IgA Borrelia IgG antibody Borrelia IgM antibody CMV IgG CMV IgM EBV IgG(VCA IgG) EBV IgG(EBNA IgG) EBV IgM(VCA) HIV Antigen and Antibody 4th gen (reported separately) HTLV 1 + 2 Hep B surface Ag quantitative Hep B core total (Diasorin) Hep B core IgM (Diasorin) Hep B surface Ag (Diasorin) Hepatitis C antibody(Diasorin) qualitative	Diasorin Liaison XL automated chemiluminescence (CLIA) VSOP073	



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Serum	Detection of: Measles IgG antibody Mumps IgG antibody Parvovirus B19 IgM ELISA Parvovirus B19 IgG ELISA Rubella IgG Syphilis (treponemal) screen total antibody VZV IgG quantitative	Diasorin Liaison XL automated chemiluminescence (CLIA) cont'd VSOP073	
Serum	Detection of: CMV IgG (VIDAS) HIV DUO Antigen & Antib (VIDAS 4th gen) VZV IgG Hepatitis B core total (VIDAS) Hep B surface antigen Anti-HCV (Vidas) Rubella IgG	Enzyme linked fluorescent assay (ELFA) using BioMerieux VIDAS 3 VSOP075	



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HUMAN BODY FLUIDS AND TISSUES (cont'd)	<u>Molecular examination activities for the purposes of clinical diagnosis</u>	Documented in-house and manufacturer's operating instructions	Site SGH
Throat swab, nose swab	Winterplex plus Xpert Xpress SARS-CoV-2/FLU/RSV detection of SARS CoV-2 antigen N2, E and RdRP genes	PCR using GeneXpert PSOP119	
Vaginal/urine/Throat/Rectal	ResistancePlus® MG Flexible assay	PCR using GeneXpert PSOP104 - ResistancePlus® MG Flexible assay	
Sputum, BAL, Joint Fluid, Pleural Fluid, CSF, Tissues, Lymph Nodes, Skin Specimens, FNA, Pus, Gastric Washings, Faeces	Qualitative detection of M. tuberculosis complex and the presence/absence of mutations conferring resistance to rifampicin	PCR using GeneXpert PSOP071 Xpert MTB/RIF PCR	
Faeces	Clostridium difficile test	PCR using GeneXpert PSOP072	



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HUMAN BODY FLUIDS AND TISSUES (cont'd)	<u>Molecular examination activities for the purposes of clinical diagnosis (cont'd)</u>	Documented in-house methods based and manufacturer's operating instructions	Site SGH
Genital swab Urine Throat swab Rectal swab	Detection of <i>N.gonorrhoeae</i>	PCR confirmation using the GeneXpert PSOP074	
Stool / rectal swab	Detection of Norovirus	PCR using GeneXpert PSOP083	
Nose and groin swabs	Detection of MRSA (mecA)	Utilising real time PCR Cepheid MRSA BSOP115 NxG on the GeneXpert	SGH RNOH
Endocervical, vaginal swabs, meatal swabs and urines	Nucleic acid detection of: Roche Cobas 6800: cobas® TV/MG	PSOP006 - cobas TV/MG Qualitative Real-time PCR	
Vaginal/Throat/Rectal swabs Urine	Chlamydia trachomatis (dual target MOMP/plamid genes) Neisseria gonorrhoeae (dual target-conserved DR9 and sequence variant of N. gonorrhoeae DNA)	Roche COBAS® 6800 PCR PSOP118 - CT/NG Qualitative nucleic acid test for use on the cobas® 6800/8800 System	



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HUMAN BODY FLUIDS AND TISSUES (cont'd)	Molecular examination activities for the purposes of clinical diagnosis (cont'd)	Documented in-house methods based and manufacturer's operating instructions	Site SGH
Plasma, capillary blood & serum	Quantitation of : HBV DNA (iu/ml) HCV RNA (iu/ml) HIV-1RNA (Copies/ml)	Roche COBAS® 6800 analyser system using real-time PCR PSOP003 PSOP117 - HBV Quantitative nucleic acid test for use on the cobas® 6800/8800 System PSOP116 - HCV-1 Quantitative nucleic acid test for use on the cobas® 6800/8800 PSOP115 - HIV-1 Quantitative nucleic acid test for use on the cobas® 6800/8800	
Plasma	EBV DNA Roche Cobas 6800: cobas® EBV	PSOP097 – cobas® EBV Quantitative Real-time PCR assay	
	CMV DNA Quantitative real-time PCR assay	PSOP005 - cobas CMV Quantitative Real-time PCR Assay	
Plasma, Urine	Cobas® BKV Quantitative real-time PCR assay	PSOP096 – cobas® BKV Quantitative Real-time PCR assay	
Nose & throat	Covid-19 Nose & throat swabbing for the general population	Cobas SARS CoV2 RT PCR assay (ORF1a/b and E gene) on Roche Cobas 6800 PSOP095	SGH



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Plasma, serum, capillary blood	Detection of: HepatitisC genotyping (primary specific real-time PCR 1-6 genotypes and subtypes 1a and 1b)	The Roche Cobas® 4800 Systems and Associated Assays PSOP002	
Genital swabs (Virocult)	HSV 1/2 DNA detection		
CSF	Meningitis PCR Assay VMPCR	PSOP091 FilmArray® 2.0 Meningitis/Encephalitis (ME) Panel Qualitative Real-time PCR assay	SGH
Nasopharyngeal and pharyngeal specimens	RPCR inc. SARS CoV2	PSOP090 FilmArray® 2.0 Respiratory Panel 2 plus (RP2plus) and RP2.1plus Qualitative Real-time PCR assay	SGH KHT



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Nose and throat swabs	Detection of SARS CoV-2 antigen N2 and E gene	Cepheid GeneXpert PSOP098 using Xpert-Xpress SARS-CoV-2 assay	SGH CUH KHT RNOH
Serum/plasma	Qualitative detection of antibodies (including IgG) to SARS-CoV-2	Elecsys anti –SARS-CoV2 by ECLIA on Roche Cobas e801 platforms VSOP082	SGH
Nose/Throat swabs	Cobas Liat Influenza A/B & RSV assay	CBS-RE-PR-46 Cobas LIAT POCT analyser procedure	SGH CUH KHT RNOH
END			