


Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

 <p>UKAS MEDICAL 9095</p> <p>Accredited to ISO 15189:2012</p>	<h3>HSL (Analytics) LLP</h3> <p>Issue No: 007 Issue date: 03 March 2025</p>	
	<p>Microbiology Department West Hertfordshire Hospitals NHS Trust Watford General Hospital Vicarage Road Watford Hertfordshire WD18 0HB</p>	<p>Contact: Andrew Clarke Tel: +44 (0) 020 7307 7342 E-Mail: Andrew.Clarke@hslpathology.com Website: www.hslpathology.com</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
<p>HUMAN BODY FLUIDS AND TISSUES</p> <p>Wound & skin swabs Upper Respiratory Swabs, Cannula, Tips, Pus, Exudates, ear swabs Pernasal swab Genital tract swab Respiratory Fluids (Sputum, Antral, Nasopharyngeal Aspirates, Bronchial Washings), Cough swab Tissue & Biopsies Sterile Body Fluids Cerebrospinal Fluid (CSF) Faeces Urine</p>	<p><u>Microbiology examination activities for the purposes of clinical diagnosis</u></p> <p>Isolation and characterisation of micro-organisms of clinical significance</p>	<p>Documented in-house methods based on related UK Standards for Microbiology Investigations (SMIs) and manufacturer's operating instructions, where relevant, to support clinical diagnosis</p> <p>Manual inoculation and media culture</p> <p>MI/SOP106</p> <p>MI/SOP111 MI/SOP52 MI/SOP60</p> <p>MI/SOP57 MI/SOP47 MI/SOP36 MI/SOP49 MI/SOP87</p>



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<p>HUMAN BODY FLUIDS AND TISSUES (cont'd)</p> <p>Swabs from nose, groin, perineum, wounds, hairline, tips (not urinary catheter tips), sputum and urine</p> <p>Respiratory fluids (Sputum, Antral, Nasopharyngeal Aspirates, bronchial washings), Tissue</p> <p>Blood</p> <p>Swabs, Tissue, fluids</p> <p>Respiratory fluids (Sputum, Antral, Nasopharyngeal Aspirates, Bronchial washings) Tissue, presumptive AFB isolated in-house</p>	<p><u>Microbiology examination activities for the purposes of clinical diagnosis (cont'd)</u></p> <p>Screening and detection of:</p> <p>Carbapenemase Resistant Enterobacteriaceae (CRE) Extended-Spectrum Beta-lactamase (ESBL) Gentamicin Resistant Organism (GRO) Methicillin Resistant Staph aureus (MRSA) Vancomycin Resistant (VRE) Pseudomonas</p> <p>Isolation and presumptive identification of Mycobacterium species</p> <p>Culture and detection of microorganisms of clinical significance</p> <p>Differentiation of microorganisms of clinical significance different organism types: gram positive/negative/variable, branching organisms, yeasts</p> <p>Presence or absence of Acid Fast Bacilli</p>	<p>Documented in-house methods</p> <p>Manual inoculation and media culture MI/SOP38</p> <p>Automated culture BD BACTEC MGIT 320 system Liquid culture/fluorescent growth detection Media culture MI/SOP42</p> <p>Automated culture Becton Dickinson (BD) BACTEC FX400, FX200 Liquid culture/fluorescent growth detection Media culture Liquid cultures (adult/paediatric) MI/SOP113</p> <p>Light microscope Centrifuge Gram staining Microscopy MI/SOP03</p> <p>UV microscope Centrifuge Auramine fluorescent staining Fluorescent microscopy MI/SOP42</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
CSF, Ascitic Fluid	Detection and quantification of white blood cells and red cells	Light microscope Centrifuge Wet film microscopy Kova Counting Grid MI/SOP36
Urine	Detection and quantification of white and red blood cells, bacteria and yeast cells	SediMax Analyser Automated urine microscopy and particle recognition MI/SOP87
Clinical isolates cultured in-house (inc. Bacterial/yeasts/fungi)	Identification of microorganisms of clinical significance	Bruker Microflex Biotyper (MALDI-TOF) Mass spectrometry MI/SOP103
Bacterial isolates cultured in -house	Antimicrobial susceptibility testing	Media culture BD Phoenix, BD Auto Prep and EpiCenter MI/SOP107 MI/SOP110 Manual antimicrobial susceptibility testing using European Committee on Antimicrobial Susceptibility Testing (EUCAST) methodology Antibiotic disc diffusion and gradient MIC determination MI/SOP/108 MI/SOP/15
Urine	Detection of Pneumococcal soluble antigen in Urine	Binax Now Streptococcus kit Manual immunochromatographic assay MI/SOP62
Urine	Detection of Legionella antigen in urine as an indicator of respiratory infection	Binax Now Legionella kit Manual immunochromatographic assay MI/SOP61



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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
Faeces	Detection of Clostridium difficile GDH antigen and toxins A & B	Techlab TOX A/B QUIK CHEK COMPLETE kit Lateral Flow EIA Device Centrifuge MI/SOP40
Faeces	Detection of Rotavirus antigen	ImmunoCard STAT test kit Manual immunochromatographic assay MI/SOP48
	<u>Mycology</u>	
Skin scraping, Nail clippings, Hair samples	Microscopic determination of presence or absence of fungal elements	Calcofluor-white fluorescence microscope MI/SOP/45
Skin scraping, Nail clippings, Hair samples	Isolation and characterisation of micro-organisms of clinical significance	Manual inoculation and media culture Macroscopic and microscopic examination MI/SOP/45
	<u>Parasitology</u>	
Faeces, Fluids, Tissue	Identification/confirmation of Ova, Cysts and parasites	Light microscope Centrifuge Concentrated wet film microscopy MI/SOP105
Faeces	Detection of Cryptosporidium sp	UV microscope Auramine fluorescent staining MI/SOP105
Faeces	Detection of Enterobius vermicularis ova	Sellotape slide Light Microscopy MI/SOP105
Urine	Detection of Schistosoma haematobium ova	Light Microscopy MI/SOP105



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<p>HUMAN BODY FLUIDS AND TISSUES (cont'd)</p> <p>Serum</p>	<p><u>Microbiology examination activities for the purposes of clinical diagnosis (cont'd)</u></p> <p><u>Serology</u></p> <p>Detection of:</p> <p>Hepatitis B surface antigen Hepatitis B core antibodies</p> <p>Hepatitis C antibodies HIV Duo Quick assay Rubella IgG & IgM</p> <p>CMV IgM Measles IgG Mumps IgG Toxoplasma IgG Varicella Zoster IgG Hepatitis A Total antibody and IgM</p> <p>Borrelia burgdorferi IgG and IgM antibodies Hepatitis E IgG & IgM Hepatitis B core IgM</p>	<p>Documented -in-house methods to meet the requirements of the NHS Infectious Diseases in Pregnancy screening programme as defined in the July 2018 "NHS Infectious Diseases in Pregnancy screening: laboratory QA evidence requirements</p> <p>VIDAS analyser Automated Fluorescent EIA Centrifuge MI/SOP/SE36 MI/SOP/SE03 MI/SOP/SE04 MI/SOP/SE7 MI/SOP/SE49 MI/SOP/SE10 MI/SOP/SE11 MI/SOP/SE12 MI/SOP/SE9 MI/SOP/SE37 MI/SOP/SE38 MI/SOP/SE13 MI/SOP/SE14 MI/SOP/SE01 MI/SOP/SE02 MI/SOP/SE56</p> <p>MI/SOP/SE100 MI/SOP/SE04</p>



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<p>Faeces</p>	<p>Helicobacter stool antigen</p>	<p>Liaison Meridian Helicobacter pylori SA, MI/SOP/SE121 CLIA</p>
<p>Serum</p>	<p>Anti-streptococcal serology</p>	<p>Biokit Antistreptolysin O test kit MI/SOP/SE15</p>
<p>Serum</p>	<p>T. pallidum screening</p>	<p>ASI RPR Syphilis Card Test MI/SOP/SE117</p>
<p>Serum</p>	<p>T. pallidum screening</p>	<p>BioRad TPHA for Qualitative detection of Treponema pallidum MI/SOP/SE119</p>



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<p>HUMAN BODY FLUIDS AND TISSUES (cont'd)</p>	<p><u>Molecular examination activities for the purposes of clinical diagnosis</u></p> <p>Extended Respiratory Panel on the FilmArray Biofire FilmArray Respiratory Panel PCR</p> <p>The following organism types and subtypes are identified using the FilmArray RP2.1 Plus:</p> <ul style="list-style-type: none"> • Adenovirus • Coronavirus 229E • Coronavirus HKU1 • Coronavirus NL63 • Coronavirus OC43 SARS-CoV-2 • Human Metapneumovirus • Human Rhinovirus/Enterovirus • Influenza A, including subtypes H1, H1-2009, and H3 • Influenza B • Parainfluenza Virus 1 • Parainfluenza Virus 2 • Parainfluenza Virus 3 • Parainfluenza Virus 4 • Respiratory Syncytial Virus • Bordetella parapertussis (IS1001) • Bordetella pertussis (ptxP) • Chlamydia pneumoniae • Mycoplasma pneumoniae 	<p>Documented in-house methods</p> <p>BioFire film array PCR using MI/SOP/102</p>



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<p>HUMAN BODY FLUIDS AND TISSUES (cont'd)</p> <p>Nasopharyngeal, throat and nose swabs in VTM.</p>	<p><u>Molecular examination activities for the purposes of clinical diagnosis (cont'd)</u></p> <p>Simultaneous qualitative detection and identification of multiple respiratory viral and bacterial nucleic acids, including Severe Acute Respiratory Syndrome coronavirus 2 (SARS-CoV-2) Adenovirus Coronavirus 229E, HKU1, NL63, OC43 SARS-CoV-2 Human Metapneumovirus Human Rhinovirus/ Enterovirus Influenza A, A H1, A H1-2009, A H3, B Parainfluenza virus 1, 2, 3, 4 Respiratory syncytial Virus A, B Bordetella pertussis, Legionella pneumophila, Mycoplasma pneumoniae</p>	<p>Documented in-house methods</p> <p>ePlex GenMark Dx using The ePlex Respiratory Pathogen Panel 2 (RP2) MI/SOP/SE105</p>



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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
CSF	CSF Meningitis/Encephalitis Panel on the FilmArray The following organism types and subtypes are identified using the FilmArray ME: Escherichia coli K1 Cytomegalovirus (CMV) Enterovirus type 11 Streptococcus pneumoniae Human Herpesvirus 6 (HHV-6) Herpes simplex virus 1 (HSV-1) Neisseria meningitidis Streptococcus agalactiae Cryptococcus neoformans/gattii Haemophilus influenzae Herpes simplex virus 2 (HSV-2) Varicella zoster virus (VZV) Listeria monocytogenes Human parechovirus (HPeV)	Biofire FilmArray PCR using MI/SOP 102 FilmArray
Nasopharyngeal, nose and throat swabs in VTM	SARS-CoV-2 Influenza A Influenza B Respiratory Syncytial Virus	Cepheid Xpert Xpress SARS CoV-2 and SARS CoV-2/Flu/RSV Plus MI/SOP/SE104
Fresh bacterial colonies isolated on Blood agar (CBA) or CLED (ThermoFisher) agar	Molecular Detection of Carbapenemase Producing Organisms (CPO). Gene sequence detection of: bla-KPC, bla-NDM, bla-VIM, bla-OXA-48 and bla-IMP.	Cepheid Gene Xpert Carba-R-assay MISOP126
Faeces	Detection of Norovirus genotype I and genotype II RNA	Cepheid Gene Xpert MI/SOP123
END		