

Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

 UKAS MEDICAL 9095 Accredited to ISO 15189:2022	HSL (Analytics) LLP	
	Issue No: 008 Issue date: 27 May 2026	
	Microbiology Department Watford General Hospital Vicarage Road Watford Hertfordshire WD18 0HB	Contact: Andrew Clarke Tel: +44 (0) 020 7307 7342 E-Mail: Andrew.Clarke@hslpathology.com Website: www.hslpathology.com

Testing performed by the Organisation at the locations specified below

Locations covered by the organisation and their relevant activities

Laboratory locations:

Location details	Activity	Location code
Address Microbiology Department Vicarage Road Watford WD18 0HB	Local contact Emily Muchemwa Clemence Mandiveyi	Microbiology Virology A
Address Simpson Ward Hemel Hempstead Hospital Hillfield Road Hemel Hempstead HP2 4AD	Local contact Emily Muchemwa Clemence Mandiveyi	Microbiology Virology B



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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	<u>Microbiology examination activities for the purposes of clinical diagnosis</u>	Documented in-house methods based on related UK Standards for Microbiology Investigations (SMIs) and manufacturer's operating instructions, where relevant, to support clinical diagnosis	
Wound & Skin swabs Upper Respiratory swabs Cannula tips Pus Exudates Ear swabs Pernasal swab Genital tract swab Tissue and Biopsies Sterile body fluids CSF Faeces Urine	Isolation and characterisation of micro-organisms of clinical significance	Manual inoculation & culture onto selected media MIC-HHH-11 MISOP111 MISOP052 MISOP057 MIC-HHH-4 MIC-HHH-1 MIC-HHH-12	B
Swabs from nose, groin, perineum, wounds, hairline, tips (not urinary catheter tips) sputum and urine	Screening and detection of: Carbapenemase Resistant Enterobacteriaceae (CRE) Extended-Spectrum Beta-lactamase (ESBL) Gentamicin Resistant Organism (GRO) Methicillin Resistant Staph aureus (MRSA) Vancomycin Resistant (VRE) Pseudomonas	Manual inoculation & culture on chromogenic media. SOP: MIC-HHH-13 (CRE on Carba 5)	B



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<p>HUMAN BODY FLUIDS AND TISSUES (cont'd)</p> <p>Blood sterile body fluids</p>	<p><u>Microbiology examination activities for the purposes of clinical diagnosis (cont'd)</u></p> <p>Culture and detection of microorganisms of clinical significance</p>	<p>Documented in-house methods</p> <p>Automated culture Becton Dickinson (BD) BACTEC FX400, Liquid culture/fluorescent growth detection Media culture Liquid cultures (adult/paediatric)</p> <p>Positive samples transferred to location B for culture/susceptibility. SOP: MIC-WAT-4</p>	A
		<p>Automated blood culture: BD BACTEC FX40</p> <p>(false positives transferred from A)</p> <p>SOP: MIC-WAT-4</p>	B
		<p>Manual inoculation & culture (adult/paediatric).</p> <p>SOP: MIC-WAT-4</p>	B
		<p>Clinical isolates (bacteria/yeasts/fungi)</p> <p>Identification of micro-organisms of clinical significance</p> <p>MALDI-TOF: Bruker Sirius Biotyper / Microflex Biotyper.</p> <p>SOP: MIC-HHH-6; MISOP103</p>	B
<p>Blood cultures CSF Ascitic fluid Joint fluid</p>	<p>Differentiation of organisms (Gram positive/negative)</p> <p>Differentiation of microorganisms of clinical significance different organism types: gram positive/negative/variable, branching organisms, yeasts</p>	<p>Gram stain using ELITech stainer; light microscopy.</p> <p>SOP: MIC1-MP3-15</p>	A
		<p>Gram staining & light microscopy.</p> <p>SOP: MISOP3</p>	B



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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	
Urine	Detection & quantification of white blood cells, red blood cells & epithelial cells	Manual microscopy using microtitre tray and inverted microscope. SOP: MIC-HHH-12	A
CSF Ascitic Fluid	Detection and quantification of white blood cells and red cells	Sysmex UF-5000 flow cytometry (automated) and/or manual microscopy. SOP: MIC-HHH-5 MIC-HHH-12	B
CSF Ascitic fluid Joint fluids	Direct culture & incubation of fastidious organisms	Wet film microscopy, Kova Counting Grid, Romanowsky stain. SOP: MIC-HHH-4; MISOP118	A
		Gas pack + incubator. SOP: MIC-HHH-4	A



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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	
Bacterial isolates cultured in-house	Antimicrobial susceptibility testing (AST)	BD Phoenix M50; BD AutoPrep; Epicenter; Manual antimicrobial susceptibility testing using European Committee on Antimicrobial Susceptibility Testing (EUCAST) methodology Antibiotic disc diffusion and gradient MIC determination SOP: MISOP107 MISOP110 MISOP108 MISOP015	B
Urine	Detection of Pneumococcal soluble antigen	Immunochromatography: BinaxNOW S. pneumoniae Antigen Card. SOP: MIC4-MP4-13	B
Urine	Legionella pneumophila serogroup 1 antigen	Immunochromatography: BinaxNOW Legionella pneumophila Antigen Card. SOP: MIC4-MP4-13	B
Faeces	Detection of Clostridioides difficile antigen and toxins A & B	Techlab TOX A/B QUIK CHEK COMPLETE lateral flow EIA. SOP: MISOP040	B
Faeces	Clostridioides difficile toxin (EIA)	Lateral flow EIA: Techlab QuikCheck. SOP: MIC-HHH-2	B



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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	Helicobacter pylori stool antigen	LIAISON Meridian Helicobacter pylori SA. SOP: WAT-TRS-MIC-MISOPSE121	B
Skin scrapings Nail clippings Hair samples	<u>Mycology</u> Isolation & characterisation of fungi of clinical significance	Manual inoculation and media culture; macroscopic & microscopic examination. SOP: MISOP045	B
Skin scrapings Nail clippings Hair samples	Calcofluor-white fluorescence microscopy for fungal elements	Calcofluor-white fluorescence microscopy. SOP: MISOP045	B
Faeces Fluids Tissue	<u>Parasitology</u> Identification/confirmation of ova, cysts and parasites	Concentrated wet film microscopy. SOP: MIC-HHH-7	B
Faeces	Detection of Enterobius vermicularis ova	Sellotape slide light microscopy. SOP: MIC-HHH-7	B
Urine	Detection of Schistosoma haematobium ova	Light microscopy. SOP: MIC-HHH-7	B



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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	
Serum	<u>Serology</u> Detection of: Hepatitis B Surface antibody Hepatitis B core antibodies Hepatitis C antibodies Epstein Barr Virus IgM and IgG CMV IgG & IgM Hepatitis A Total antibody and IgM Borrelia burgdorferi IgG and IgM antibodies Rubella IgG II antibodies Chlamydia trachomatis antibodies Interferon-γ antibodies for indirect detection of Mycobacterium tuberculosis	Diasorin Liaison XL (CLIA). SOP: IMM-MP1-8	B
Serum	Anti-streptococcal serology	Biokit Antistreptolysin O test kit MI/SOP/SE15	B



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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	
Serum	<u>Antenatal newborn Screening</u> Hepatitis B core antibodies Rubella IgM CMV IgM Measles IgG Mumps IgG Toxoplasma IgG Varicella Zoster IgG Hepatitis A IgM Hepatitis E IgG & IgM Hepatitis B core IgM	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 VIDAS analyser – Automated Fluorescent EIA. SOP: IMM-MP2-25	B



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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 methods	
Nasopharyngeal, Throat & Nose swabs (in VTM)	The following organism types and subtypes are identified: using Respiratory Panel 2.1 plus (RP2.1 plus): Adenovirus Coronavirus 229E/HKU1/NL63/OC43 SARS-CoV-2 Human Metapneumovirus Human Rhinovirus/Enterovirus Influenza A (A/H1, A/H3, A/H1-2009) Influenza B Parainfluenza 1/2/3/4 RSV Bordetella parapertussis/pertussis Chlamydia pneumoniae Mycoplasma pneumoniae	PCR using BioFire FilmArray TORCH System. SOP: MIC-WAT-2	A
Faeces	Norovirus genotype I & II RNA	PCR using Cepheid GeneXpert (Xpert Norovirus kit) SOP: HAE-RFRR-22	A
Nasopharyngeal Nose & Throat swabs (in VTM)	SARS-CoV-2 and SARS-CoV-2 Influenza A Influenza B RSV	Cepheid GeneXpert Xpress SARS-CoV-2/Flu/RSV Plus. SOP: HAE-RFRR-22	A
Faeces	Gastro 2 panel (PCR): Salmonella Shigella Campylobacter STEC (stx1) Cryptosporidia Giardia	PCR using SeroSep Enteric Bio Assay & LightCycler. SOP: MIC-HHH-1	B



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Faeces	Viral panel (PCR): Norovirus GI Norovirus GII Sapovirus Rotavirus Astrovirus Adenovirus	PCR using SeroSep Enteric Bio Assay & LightCycler. SOP: MIC-HHH-3	B
Faeces	Clostridioides difficile (PCR panel)	PCR using SeroSep Enteric Bio Assay & LightCycler. SOP: MIC-HHH-2	B
CSF	CSF Meningitis/Encephalitis Panel for identification of: Escherichia coli K1 Haemophilus influenzae Listeria monocytogenes Cytomegalovirus (CMV) Neisseria meningitides Streptococcus agalactiae Streptococcus pneumoniae Enterovirus Herpes simplex virus 1 (HSV-1) Herpes simplex virus 2 (HSV-2) Human Herpesvirus 6 (HHV-6) Human parechovirus (HPeV) Cryptococcus neoformans/gattii Varicella zoster virus (VZV)		B
END			