


Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

 <p>Accredited to ISO 15189:2012</p>	Wirral University Teaching Hospital NHS Foundation Trust	
	Issue No: 008 Issue date: 12 September 2024	
	Chester & Wirral Microbiology Service 11 Bassendale Road Wirral CH62 3QL	Contact: Mr Alex Warrington Tel: +44 (0)1244 362499 E-Mail: alex.warrington@nhs.net
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
HUMAN TISSUES AND FLUIDS Routine samples: Aspirates Fluids Pus Samples from sterile sites Urine Bone Cellular and fluid material contained on swabs, catheter tips and intra-uterine contraceptive devices Genital samples Semen Tissues	<u>Microbiological examination activities for the purpose of clinical diagnosis</u> Isolation of microorganisms of clinical significance	In-house documented procedures following current UK Standards for Microbiology Investigations (UK SMIs) Manual inoculation and media culture using: MBSOP 33 MBSOP 21 MBSOP 18 MBSOP 29
Cellular and fluid material contained on swabs	Screening for Methicillin-Resistant <i>Staphylococcus aureus</i> (MRSA)	Manual inoculation and media culture using: MBSOP 44
Rectal swab, Faeces and Urine	Screening for Resistant organisms VRE and CPE	Manual inoculation and media culture using: MBSOP 46
Blood Joint fluids	Isolation of microorganisms of clinical significance	Liquid media culture using: MBSOP 52 MESOP 12 and Biomérieux BacTAlert



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<p>HUMAN TISSUE AND FLUIDS (cont'd)</p> <p>Cerebrospinal fluid (CSF)</p> <p>CSF</p> <p>Bronchoalveolar lavage Bronchial aspirate, brushings & washings Cellular and fluid material contained on swabs Endotracheal tube specimens Nasopharyngeal aspirate Pleural fluid Sputum</p> <p>Aspirates Fluids CAPD Corneal scrapes Eye (specimens from) Tissues BAL</p>	<p><u>Microbiological examination activities for the purpose of clinical diagnosis</u> (cont'd)</p> <p>Detection, identification and quantification (inc. differential) of: White blood cells Red blood cells Bacterial cells</p> <p>Isolation of microorganisms of clinical significance</p> <p>Isolation of microorganisms of clinical significance</p> <p>Detection, identification and quantification of: White blood cells Red blood cells Bacterial cells Yeast cells and fungal hyphae</p>	<p>In-house documented procedures following current UK Standards for Microbiology Investigations (UK SMIs)</p> <p>Microscopy & staining (Gram and differential) using: MBSOP 11</p> <p>Manual inoculation and media culture using: MBSOP 11</p> <p>Manual inoculation and media culture using: MBSOP 42</p> <p>Staining (inc. Gram) and microscopic examination using: MBSOP 21 MBSOP11 MBSOP52 MBSOP42</p>



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HUMAN TISSUE AND FLUIDS (cont'd)	<u>Microbiological examination activities for the purpose of clinical diagnosis (cont'd)</u>	In-house documented procedures following current UK Standards for Microbiology Investigations (UK SMIs)
Urine	Detection, identification and quantification of: White blood cells Red blood cells Squamous epithelial cells Bacterial cells Yeasts	Automated urinalysis, and manual examination using: MBSOP 33 and SediMAX contrast (x2) MESOP 50 and/or Manual microscopic examination using: KOVA slides
Urine	Isolation of microorganisms of clinical significance	Manual inoculation and media culture using: MBSOP 33 BG9
Faeces	Isolation of bacterial pathogens: <i>Campylobacter</i> spp. <i>Escherichia coli</i> O157 <i>Salmonella</i> sp. <i>Shigella</i> spp. <i>Vibrio</i> spp. <i>Yersinia</i> spp. <i>Pleisiomonas</i> spp.	Manual inoculation and media culture using: MBSOP59
Hair Nail Skin	Isolation and identification of clinically significant fungi	Manual inoculation, media culture, and macroscopic & microscopic examination using: MBSOP 38
Cultures isolated in-house from all samples listed above	Identification of microorganisms of clinical significance	Manual and/or automated biochemical methods using: Vitek 2- MESOP 24 and Matrix-assisted laser desorption/ionisation using: MESOP 32 Vitek MS Maldi-ToF



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<p>HUMAN TISSUE AND FLUIDS (cont'd)</p> <p>Bacterial cultures isolated in-house from all samples listed above</p> <p>Female genital tract swabs</p> <p>Faeces</p> <p>Faeces</p> <p>Urine</p>	<p><u>Microbiological examination activities for the purpose of clinical diagnosis</u> (cont'd)</p> <p>Antimicrobial susceptibility testing of clinically significant bacteria</p> <p>Microscopic diagnosis of bacterial vaginosis</p> <p>Detection of ova, cysts and parasites (OCP)</p> <p>Detection of: <i>Giardia sp</i> <i>Cryptosporidium sp</i> <i>Campylobacter sp</i> <i>Salmonella enterica</i> <i>Shigella sp.</i> <i>E.coli</i> (STEC) <i>C.difficile</i> Toxin B detection</p> <p>Detection of <i>Schistosoma haematobium</i> ova</p>	<p>In-house documented procedures following current UK Standards for Microbiology Investigations (UK SMIs)</p> <p>Manual and/or automated antimicrobial susceptibility testing using the latest Global EUCAST methodology Vitek 2 using in-house procedure MESOP 24 EUCAST Disc diffusion & gradient minimum inhibitory concentration determination using in-house procedure MBSOP 06 and DOC 2689</p> <p>Gram stained microscopic examination using: MBSOP 29 Automated staining using Prolab Polystainer as per MESOP39</p> <p>Unstained and iodine stained direct microscopic examination and/or Formol-ether faecal concentration and microscopic examination using: MBSOP 59</p> <p>Enteric PCR using: MBSOP78, MBSOP59 and Serosep EntericBio Workstation Roche Lightcycler 480 II</p> <p>Microscopic examination using in-house procedure: MBSOP 33</p>



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HUMAN TISSUE AND FLUIDS (cont'd)	<u>Microbiological examination activities for the purpose of clinical diagnosis (cont'd)</u>	In-house documented procedures following current UK Standards for Microbiology Investigations (UK SMIs)
Nose and throat Swabs Faeces Culture isolate suspension	Detection or exclusion of: Influenza A Influenza B Respiratory syncytial virus MRSA CPE VRE Norovirus Difficile Toxin Genes tcdB, cdt and tcdC	Automated Molecular Testing (PCR) using: MBSOP 73 MBSOP 49 MBSOP 71 MBSOP 72 MVSOP 14 MBSOP 70 and: Cepheid GeneXpert
Nose/throat swabs in VTM	Detection of SARS-CoV-2 virus RNA (COVID-19) specific gene sequences: E, N2	Cepheid GeneXpert MBSOP79 Cepheid PCR Xpert® Xpress SARS-CoV-2 (Ref XPRSARS-COV2-10)
Nose/throat swabs Nasal swabs	Detection of: SARS-CoV-2(RdRP, N2 & E gene targets) Influenza A Influenza B RSV	Cepheid GeneXpert (PCR) Xpert Xpress combined Multiplex assay MBSOP84
Urine	Detection of <i>Legionella pneumophila</i> serotype 1 antigen and Streptococcus pneumoniae antigen	Immuno-chromatographic assay using: MVSOP 12 and Launch TRU Urine Antigen kit
Urine, endocervical/vaginal swabs, rectum and throat	Detection or exclusion of: <i>Chlamydia trachomatis</i> and/or <i>Neisseria gonorrhoeae</i>	Multiplex PCR using MBSOP7 and Roche Cobas 4800
Faeces	Rotavirus and adenovirus	Immuno-chromatographic assay Coris Combi-strip MVSOP 13
Faeces	Detection of: GDH Toxins A & B	Techlab C.difficile Quik Chek Complete kit Rapid membrane enzyme immunoassay MBSOP70



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HUMAN TISSUES AND FLUIDS (cont'd)	<u>Serological examination activities for the purpose of clinical diagnosis</u>	In-house documented procedures following current UK Standards for Microbiology Investigations (UK SMIs)
Faeces	Helicobacter Antigen	EIA – Dynex DS2 Premier Platinum HpSA Plus MBSOP 09 MESOP 29 ** Documented in house methods to meet the requirements of the Infectious Diseases in pregnancy Screening (IDPS) as defined in the July 2018 'NHS Infectious Diseases in Pregnancy Programme: laboratory quality assurance evidence requirements'
Plasma Serum	Microbial serology for: Hepatitis B surface antibody CMV IgM and IgG & avidity Hepatitis A IgG and IgM **Hepatitis B surface antigen Hepatitis C antibody **HIV-1 & HIV-2 Antibodies and HIV-1 p24 Antigen HTLV ab Rubella IgG **Syphilis Total Antibody (IgG & IgM) Toxoplasma IgG Hepatitis B Core total HBV markers	Enzyme Immuno-Assay (EIA) Roche Cobas 6000 using: MESOP 30 MVSOP 29 MVSOP 34 MVSOP 04 MVSOP 02 MVSOP 28 MVSOP 05 MVSOP 27 MVSOP 07 MVSOP 15 MVSOP 09 MVSOP02 MBSOP29



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HUMAN TISSUES AND FLUIDS (cont'd)	<u>Serological examination activities for the purpose of clinical diagnosis (cont'd)</u>	In-house documented procedures following current UK Standards for Microbiology Investigations (UK SMIs)
Plasma Serum	Microbial serology for: Chlamydia IgG EBV IgM and IgG Measles IgG Varicella Zoster IgG Mycoplasma IgM Parvovirus IgM and IgG EBV (Epstein Barr Virus): EBV VCA IgG EBV VCA IgM EBNA IgG Mycoplasma IgM	EIA - Dynex BEST 2000 using: MESOP 09 MVSOP 32 MVSOP 25 MVSOP 30 MVSOP 06 MVSOP 10 DOC 1613 MVSOP25 MVSOP10
Plasma Serum	Microbial serology for: Hepatitis B Markers (HBe, Ab and HBsAg) Varicella IgG Hepatitis B Core IgM Lymes (Borrelia) IgM and IgG Measles IgG Hepatitis C Ab HIV 1&2	EIA - VIDAS using: DOC1619 MVSOP 02 MVSOP 06 MVSOP 02 MVSOP 24 MVSOP 30 MVSOP 28 MVSOP 05
Plasma Serum	HIV antigen-antibody	Immuno-chromatographic strip method Alere HIV-combo kit MVSOP 05
Serum/plasma	Syphilis antibody confirmation	Abbott Bioline Manual lateral flow MVSOP 15



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HUMAN TISSUES AND FLUIDS (cont'd) Nose & Throat swabs Nasal swabs	<u>Serological examination activities for the purpose of clinical diagnosis (cont'd)</u> Respiratory pathogens: Adenovirus Coronavirus 229E Coronavirus HKU1 Coronavirus NL63 Coronavirus OC43 Middle East Respiratory Syndrome Coronavirus (MERS-CoV) Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2) Human Metapneumovirus Human Rhinovirus/Enterovirus Influenza A, including subtypes H1, H3 & H1-2009 Influenza B Parainfluenza Virus 1 Parainfluenza Virus 2 Parainfluenza Virus 3 Parainfluenza Virus 4 Respiratory Syncytial Virus (RSV) Bordetella parapertussis Bordetella pertussis Chlamydia pneumoniae Mycoplasma pneumonia	In-house documented procedures following current UK Standards for Microbiology Investigations (UK SMIs) Biofire filmArray Multiplex PCR MBSOP88

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