


Schedule of Accreditation

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United Kingdom Accreditation Service

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

 UKAS MEDICAL 8857 Accredited to ISO 15189:2012	St Helens and Knowsley Teaching Hospitals NHS Trust	
	Issue No: 010 Issue date: 28 April 2022	
	Department of Microbiology Whiston Hospital Warrington Road Prescot L35 5DR	Contact: Diane Wycherley Tel: +44 (0)151 290 4140 E-Mail: diane.wycherley@sthk.nhs.uk Website: www.sthk.nhs.uk
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
Microbiology Department Whiston Hospital Warrington Road Prescot L35 5DR Local contact: Diane Wycherley (details as above)	Bacteriology, Virology, Serology. Molecular Diagnostics, Andrology	STHK
Microbiology Department Southport and Formby District General Hospital Town Lane, Kew Southport, Merseyside PR8 6PN Local contact: Diane Wycherley (details as above)	Virology	SOHT



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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 TISSUES AND FLUIDS	<u>Microbiological examination activities for the purpose of clinical diagnosis</u>	In-house documented procedures following current Public Health England (PHE) Standards for Microbiological Investigations (SMIs)	
Routine samples - tissues and biopsies, mortuary samples, fluids from normally sterile sites, corneal scrapings, contact lens	General isolation and characterisation of microorganisms of clinical significance	Microbiological investigation including microscopy, manual culture and plate reading ID 23787 Inoculation of culture media ID 16291 Urgent Gram processing	STHK
Swabs (nasal, pernasal/nasopharyngeal, cough, throat, mouth, eye, ear, genital, wound, superficial wounds and skin, neonatal)	General isolation and characterisation of microorganisms of clinical significance	Microbiological investigation including microscopy, manual culture and plate reading 8489 Superficial and deep seated wound swab plating scheme ID 16725 Wounds Gram stain required ID 4042 Wound swabs, Skin superficial non-surgical abscesses and deep seated infections ID 2882 Genital tract and penile swabs plating scheme ID 7582 Genital tract and penile swabs bacteriology ID 16731 Genital bench Gram film reporting ID 9789 GUM bench duties	STHK
Respiratory samples - tracheal aspirates pleural fluid, bronchoalveolar samples, nasopharyngeal aspirates,	General isolation and characterisation of microorganisms of clinical significance	Microbiological investigation including microscopy, manual culture and plate reading ID 2884 Respiratory tract plating scheme ID 1023 Routine Respiratory specimen bacteriology	STHK



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HUMAN TISSUES AND FLUIDS (cont'd)	<u>Microbiological examination activities for the purpose of clinical diagnosis (cont'd)</u>	In-house documented procedures following current Public Health England (PHE) Standards for Microbiological Investigations (SMIs)	
Urine	General isolation and characterisation of microorganisms of clinical significance	Microbiological investigation including microscopy, manual culture and plate reading ID 694 Routine urine bacteriology	STHK
Ascitic fluids, synovial fluids, fluids from normally sterile sites	General isolation and characterisation of microorganisms of clinical significance	Microbiological investigation including microscopy, manual culture and plate reading ID19997 Quick guide Ascitic fluid neutrophil counts ID17945 Fluid processing	STHK
Bone, orthopaedic artificial material, intravascular cannulae,	General isolation and characterisation of microorganisms of clinical significance	Microbiological investigation including microscopy, manual culture and plate reading ID 16475 Bone soft tissue fluids intravenous tips and orthopaedic metal work plating scheme ID 17948 Bone and tissue flow diagram ID16506 Bone, soft tissues, fluids, tips and artificial material	STHK
CSF	General isolation and characterisation of microorganisms of clinical significance	Microbiological investigation including microscopy, manual culture and plate reading ID1254 Routine CSF bacteriology	STHK
Sputum	General isolation and characterisation of microorganisms of clinical significance	Microbiological investigation including microscopy, manual culture and plate reading ID 7061 Sputum plating scheme ID 17950 Sputum and BAL processing flow chart ID 1020 Routine Sputum bacteriology	STHK



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HUMAN TISSUES AND FLUIDS (cont'd)	<u>Microbiological examination activities for the purpose of clinical diagnosis (cont'd)</u>	In-house documented procedures following current Public Health England (PHE) Standards for Microbiological Investigations (SMIs)	
Blood and joint fluids	Bacterial growth detection of pathogenic organisms	BacT/Alert blood culture system ID 23891 BacT/ALERT blood culture ID 18576 Positive blood culture sample processing ID 1253 Blood culture bacteriology	STHK
Urine	Detection of red cells, white cells, epithelial cells, bacteria and yeasts	Investigation of urine by UF1000i by flow cytometry, microscopy and culture UF1000i by flow cytometry PREVI-Isola ID 6591 UF1000i Urine analyser ID 694 Routine urine bacteriology	STHK
Urine	Determination of antimicrobial susceptibility including direct susceptibility	Disc Diffusion (EUCAST method) ID 1250 Sensitivity testing	STHK
CSF	Detection, identification and quantification (including differential) of: White blood cells Red blood cells Bacterial and fungal cells	Investigation of cerebrospinal fluids Microscopy stained and unstained including Gram and differential) ID1254 Routine CSF bacteriology ID 8170 Staining methods ID 735 Microscopy	STHK
Synovial fluids	Presence of crystals	Microscopy - stained and unstained	STHK
Prosthetic Joint Fluids	Detection, identification and quantification (including differential) of: White blood cells	ID 8170 Staining methods ID 735 Microscopy ID 16506 Bone, soft tissues, fluids, tips and artificial material ID 1005 Joint Fluid Preparation and Crystal Identification	



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HUMAN TISSUES AND FLUIDS (cont'd)	<u>Microbiological examination activities for the purpose of clinical diagnosis (cont'd)</u>	In-house documented procedures following current Public Health England (PHE) Standards for Microbiological Investigations (SMIs)	
Ascitic fluid	Detection and quantification of White cells and differential reporting of Leucocyte count	Staining (Gram and differential) and microscopy ID17945 Fluid processing ID19997 Quick guide Ascitic fluid neutrophil counts ID 735 Microscopy ID 8170 Staining methods	STHK
Sputum, Pleural fluid, bronchoalveolar samples (BAL), Tissue/Lymph nodes; Urgent samples only)	Screening and detection of acid-alcohol fast bacilli	ID 17945 Fluid processing ID 16506 Bone, soft tissues, fluids, tips and artificial material ID 17948 Bone and tissue flow diagram ID 735 Microscopy - Fluorescence ID 8170 Staining methods using Auramine phenol and Cold ZN ID 1020 Routine sputum bacteriology	STHK
Screening samples: Nasal, Throat, Perineum, Groin, Axillae, Nasal swab for hip & Knee replacement patients, Rectal, Wound swabs, CSU, Urine, Faeces, Sputum	MRSA screening Isolation of MRSA; MSSA; CPE; VRE; ESBL; Group A Streptococci	Manual culture and manual chromogenic culture ID 16313 Epidemiology plating scheme ID 2588 Epidemiological screening ID 17003 Associate Practitioner: Epidemiology screens	STHK



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HUMAN TISSUES AND FLUIDS (cont'd)	<u>Microbiological examination activities for the purpose of clinical diagnosis (cont'd)</u>	In-house documented procedures following current Public Health England (PHE) Standards for Microbiological Investigations (SMIs)	
Faeces & Faecal microbiota transplant (FMT) Donor Testing	Detection of enteric pathogens <ul style="list-style-type: none"> • Salmonella sp. • Shigella sp. • Shigella IPaH gene • Campylobacter jejuni/coli/lari • E. coli 0157 via VTec gene (stx1 & stx2) • Cryptosporidium parvum, hominis Giardia	Nucleic acid testing DNA PCR Semi-automated procedure - Enteric bioreal PCR (Serosep) and Roche PCR Light cycler ID 22915 Faecal PCR Testing, Serosep	STHK
Faeces	Qualitative detection of H pylori antigen	Semi-automated procedure using amplified IDEIA HpStAR; ID 23894 <i>H pylori</i> faecal antigen testing ID 23958 Use of the DS2	STHK
Faeces	Detection of Clostridium difficile toxins A and B and Clostridium difficile glutamate dehydrogenase (GDH)	ID 2253 Cl. Difficile Testings TECHLAB® C. DIFF QUIK CHECK COMPLETE® test rapid membrane enzyme immunoassay (manual back up)	STHK



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HUMAN TISSUES AND FLUIDS (cont'd)	<u>Microbiological examination activities for the purpose of clinical diagnosis</u> (cont'd)	In-house documented procedures following current Public Health England (PHE) Standards for Microbiological Investigations (SMIs)	
Faeces	Isolation and characterisation of enteric bacterial pathogens including parasites <i>Salmonella</i> sp. <i>Shigella</i> sp. <i>Campylobacter</i> sp. <i>Escherichia coli</i> O157 <i>Vibrio</i> spp. <i>Giardia</i> . <i>Cryptosporidium</i>	Manual culture ID 693 Routine faeces bench ID 16728 Useful dates for processing faeces samples ID 20651 FMT Testing main lab record Staining & Microscopy ID 8170 Staining methods ID 735 Microscopy	STHK
Faeces	Rota/Adenovirus antigen detection	Werfen Biokit ID 693 Routine faeces bench	STHK
Bacterial and fungal isolates	Identification of micro-organisms -preliminary identification and automated identification of medically important bacteria	Vitek MS (MALDI-TOF) and Vitek2 and manual identification Semi-automated method: ID 20487 Vitek MS and Vitek2 Sample Preparation Procedure ID 16959 Vitek sampling process flow chart Supporting bacterial identification SOPs ID 23890 Identification of Staphylococcus, Micrococcus and Rothia species ID 24852 Identification of Streptococci, Enterococci and related organisms	STHK



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HUMAN TISSUES AND FLUIDS (cont'd) Bacterial and fungal isolates	<u>Microbiological examination activities for the purpose of clinical diagnosis</u> (cont'd) Identification of micro-organisms -preliminary identification and automated identification of medically important bacteria	In-house documented procedures following current Public Health England (PHE) Standards for Microbiological Investigations (SMIs) Vitek MS (MALDI-TOF) and Vitek2 and manual identification (cont.) Semi-automated method: ID 23889 Identification of Enterobacteriaceae ID 25312 Identification of <i>Haemophilus</i> species and the HACEK Group of Organisms ID 24965 Identification of Neisseria species ID 25674 Identification of <i>Pseudomonas</i> species and other Non-Glucose Fermenters ID 25676 Identification of <i>Pasteurella</i> species and morphologically similar organisms ID 23888 Identification of <i>E.coli</i> O157 ID 24993 Identification of <i>Vibrio</i> and <i>Aeromonas</i> species ID 24841 Identification of <i>Salmonella</i> species ID 24994 Identification of <i>Yersinia</i> species ID26319 Identification of <i>Corynebacterium</i> species. ID 26318 Identification of <i>Shigella</i> species ID 26320 Identification of <i>Bordetella</i> species	STHK



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HUMAN TISSUES AND FLUIDS (cont'd)	<u>Microbiological examination activities for the purpose of clinical diagnosis (cont'd)</u>	In-house documented procedures following current Public Health England (PHE) Standards for Microbiological Investigations (SMIs)	STHK
Bacterial and fungal isolates	Identification of micro-organisms - preliminary identification and automated identification of medically important bacteria	ID 26321 Identification of <i>Clostridium</i> species ID 26322 Identification of aerobic actinomycetes ID 57 Identification of <i>Bacillus</i> species ID 26322 Identification of <i>Moraxella</i> species and morphologically similar organisms ID 23624 Identification of <i>Pasteurella</i> species and morphologically similar bacterial ID 26325 Identification of anaerobic cocci ID 26326 Identification of anaerobic Actinomyces species ID 26327 Identification of anaerobic Gram negative rods	



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HUMAN TISSUES AND FLUIDS (cont'd)	<u>Microbiological examination activities for the purpose of clinical diagnosis (cont'd)</u>	In-house documented procedures following current Public Health England (PHE) Standards for Microbiological Investigations (SMIs)	STHK
Bacterial isolates	Antimicrobial susceptibility testing of micro-organisms	Determination of Antimicrobial Susceptibility by Disc Diffusion based on EUCAST Guidelines also gradient MIC (etest) and Automated MIC (Vitek 2) EUCAST (manual disc /strip diffusion) Broth dilution MIC testing for colistin sensitivity on Enterobacteriaceae, Pseudomonas and Acinetobacter species ID 16644 Associate Practitioner Disc diffusion sensitivity ID 1250 Sensitivity testing ID 745 MIC using E test strips ID 1251 Detection of Extended-Spectrum β -Lactamases (ESBL) and AmpC Semi-automated method: ID 20487 Vitek MS and Vitek2 Sample Preparation Procedure ID 16959 Vitek sampling process flow chart ID 1250 ID16644	



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HUMAN TISSUES AND FLUIDS (cont'd)	<u>Microbiological examination activities for the purpose of clinical diagnosis (cont'd)</u>	In-house documented procedures following current Public Health England (PHE) Standards for Microbiological Investigations (SMIs)	
Hair, Nail Skin, Sputum, BAL	Examination and general isolation and characterisation of fungal organisms of clinical significance	Manual inoculation, media culture, and macroscopic & microscopic examination (stained & unstained) using : ID 20650 Routine Mycology ID 735 Microscopy ID 8170 Staining methods ID 1020 Routine sputum bacteriology	STHK
Faeces, urine and perianal sellotape slides	Detection of clinically significant faecal ova, cysts and parasites	Concentration method, direct examination and microscopy ID 693 Routine faeces bench ID 735 Microscopy ID 8170 Staining methods ID 694 Routine urine bacteriology	STHK
Blood	Therapeutic Drug Monitoring: Teicoplanin	Indiko Plus Analyser by turbidimetric immunoassay ID 44944	STHK
Serum	COV2T Total Antibody IgM and IgG	ADVIA Centaur XP by chemiluminescent immunoassay ID 48337	STHK



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HUMAN BODY FLUIDS	<u>Serological examination activities for the purpose of clinical diagnosis</u>	Following in-house documented procedures	
Serum	Detection of Measles IgG antibody, Mumps IgG antibody, Toxoplasma IgM/IgG antibody VZV IgG antibody CMV IgG/IgM antibody EBV IgG/IgM antibody Rubella IgG antibody Lymes IgG/IgM antibody to Borrelia burgdorferi	BioMerieux VIDAS3 analyser Immunoassays using enzyme linked fluorescent assay ID 9526 Routine serology ID 23634 Use of VIDAS3	STHK
Serum	Detection of Parvovirus	Semi-automated procedure ID 23958 Use of the DS2 ID 9526 Routine serology ID 23895 Parvovirus B19 IgM and IgG	STHK
Serum	Quantitative detection of anti - streptolysin O (ASL)	Biokit rheumajet ASO ID 9526 Routine serology	STHK
Urine	Detection of soluble Pneumococcal urinary antigen	Binax Now kit by Alere Lateral flow device ID 4595 Detection of Pneumococcal antigens in urine	STHK
Urine	Detection of <i>Legionella pneumophila</i> serotype 1 antigen	Binax Now kit by Alere Lateral flow device ID 4595 Detection of Legionella antigen in urine	STHK



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HUMAN BODY FLUIDS Blood, serum	<u>Serological examination activities for the purpose of clinical diagnosis</u> Detection of : HIV antigen/antibody HBV surface antigen HBV surface antibody HBV core antibody HCV antibody Hepatitis A IgM antibody Total Hepatitis A antibody Syphilis IgG antibody	Following in-house documented procedures Siemens Atellica (Spectrophotometry) System ID 43976 Serology Biochemistry ID 8655 Routine Serology ID 9526	STHK



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Urines and genital swabs, screening samples from national screening programme	Molecular diagnostic examination activities for the purpose of clinical diagnosis <i>Chlamydia trachomatis</i> and <i>Neisseria gonorrhoeae</i> rRNA and confirmation by secondary probes	Following in-house documented procedures Hologic Panther Aptima Combo 2 assay Molecular: transcription mediated amplification of the RNA target detected by hybridisation and real time fluorescence ID 14142 Detection of <i>Chlamydia trachomatis</i> and <i>Neisseria gonorrhoeae</i> by nucleic acid amplification test (NAAT)	STHK
Bacterial culture isolates	<i>Staphylococcus aureus</i> (SA) and methicillin-resistant <i>Staphylococcus aureus</i> (MRSA); detection and differentiation of the blaKPC, blaNDM, blaVIM, blaOXA-48, and blaIMP-1 gene sequences associated with carbapenem-nonsusceptibility in gram-negative bacteria (CPE) used for confirmation	Cepheid GeneXpert ID 24499 Cepheid	STHK
Swabs, blood culture samples	MRSA, MSSA	Cepheid GeneXpert ID 24499 Cepheid PCR	STHK
Faeces	Detection of norovirus	ID 1253 Blood culture Bacteriology ID 18576 Positive blood culture sample processing	



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HUMAN BODY FLUIDS (cont'd)	Molecular diagnostic examination activities for the purpose of clinical diagnosis (cont'd)	Following in-house documented procedures	
Anogenital skin lesions	HSV I/II	Hologic Panther Aptima assay Molecular: transcription mediated amplification of the RNA target detected by hybridisation and real time fluorescence ID 38789	STHK
Endocervical swabs, vaginal swabs and female urine	<i>Trichomonas vaginalis</i>	ID 38828	
Endocervical swabs, vaginal swabs, female urine, male urethral swabs, penile swabs and male urine	<i>Mycoplasma genitalium</i>	ID 38827	
Nasopharyngeal Aspirates and Nose/Throat swabs in VTM	Influenza A, influenza B, Respiratory syncytial virus (RSV) viral RNA,	Cepheid GeneXpert Cepheid PCR Xpert® Xpress Flu/RSV (Ref XPRSFLU/RSV-CE-10 ID 24499	STHK
Nose and Throat Swabs in VTM	Detection of SARS CoV-2 virus RNA (COVID-19) specific gene sequences: E, N2	Cepheid GeneXpert Cepheid PCR Xpert® Xpress SARS-CoV-2 (Ref XPRSARS-COV2-10) ID 24499	STHK
Nose and Throat Swabs in VTM	Detection of SARS CoV-2 virus RNA (COVID-19) specific gene sequences: E, N2	Cepheid GeneXpert Cepheid PCR Xpert® Xpress SARS-CoV-2 (Ref XPRSARS-COV2-10) ID 44369	SOHT
Nose and Throat Swabs in VTM	Detection of: Influenza A Influenza B RSV viral RNA	Cepheid GeneXpert Cepheid PCR Xpert® Xpress Flu/RSV ID 44369	SOHT
Faeces	Detection of <i>Clostridium difficile</i> toxins A and B	Nucleic acid testing using PCR Cepheid GeneXpert ID 2253 Cl. difficile Testings	STHK



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HUMAN BODY FLUIDS (cont'd)	Molecular diagnostic examination activities for the purpose of clinical diagnosis (cont'd)	Following in-house documented procedures	
Nose and Throat Swabs in VTM	Detection of SARS CoV-2 virus RNA (COVID-19) specific gene sequences: ORFab region 1 and 2	Hologic Panther Aptima Fusion using Aptima Fusion SARS-CoV-2 Assay kit by target capture-transcription-mediated amplification (TMA), and dual kinetic assay (DKA) SOP48306 Aptima SARS CoV2 Panther assay	STHK
Nose and Throat Swabs in VTM	Detection of SARS CoV-2 virus RNA (COVID-19) specific gene sequences: E, N and RdRp	Serosep - RespiBio® SARS-CoV-2 using LifeRiver EX3600 RNA extraction and SOP 52300 Serosep RespiBio Panel 3 dual assay by RT PCR	STHK
Nose and Throat Swabs in VTM	Detection of SARS CoV-2 virus RNA (COVID-19) specific gene sequences: ORFab and N	SAMBA 11 Sars Cov2 PCR test SOP 51659 SAMBA 11 SARS CoV 2 PCR assay.	STHK SOHT



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HUMAN BODY FLUIDS (cont'd)	Molecular diagnostic examination activities for the purpose of clinical diagnosis (cont'd)	Following in-house documented procedures	
Faeces	Detection of <i>C. difficile</i> toxin B gene (tcdB)	EntericBio realtime® (Serosep) PCR ID 2253 Cl. Difficile Testings	STHK
CSF Excludes samples from immunocompromised patients	Detection of the following microorganisms using the Meningitis/Encephalitis panel: <i>Escherichia coli</i> K1 <i>Haemophilus influenzae</i> <i>Listeria monocytogenes</i> <i>Neisseria meningitidis</i> <i>Streptococcus agalactiae</i> <i>Streptococcus pneumoniae</i> <i>Cryptococcus gattii/neoformans</i> Cytomegalovirus Herpes simplex virus 1 Herpes simplex virus 2 Human herpesvirus 6 Enterovirus Human parechovirus Varicella zoster virus	Biomerieux Biofire Film Array using multiplexed nucleic acid detection (PCR) ID 37879	STHK



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HUMAN BODY FLUIDS (cont'd)	Molecular diagnostic examination activities for the purpose of clinical diagnosis (cont'd)	Following in-house documented procedures	STHK
Sputum/ Tracheal Aspirates/ Bronchial Lavage	Extended respiratory panel: <u>Viruses</u> Adenovirus Coronavirus HKU1 Coronavirus NL63 Coronavirus 229E Coronavirus OC43 Human Metapneumovirus Human Rhinovirus/Enterovirus Influenza A Influenza B MERS CoV Parainfluenza Virus 1-4 Respiratory Syncytial Virus <u>Bacteria</u> <i>Bordetella parapertussis</i> <i>Bordetella pertussis</i> Atypical <i>Chlamydia pneumoniae</i> <i>Mycoplasma pneumoniae</i>	Biomerieux Biofire Film Array using multiplexed nucleic acid detection (PCR) ID 37879	



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<p>HUMAN BODY FLUIDS (cont'd)</p> <p>Sputum/ Tracheal Aspirates/ Bronchial Lavage</p>	<p>Molecular diagnostic examination activities for the purpose of clinical diagnosis (cont'd)</p> <p>Pneumonia Panel:</p> <p><u>Viruses</u></p> <p>Adenovirus Coronavirus Human Metapneumovirus Human Rhinovirus/Enterovirus Influenza A Influenza B Middle East Respiratory Syndrome Coronavirus (MERS-CoV) Parainfluenza Virus Respiratory Syncytial Virus</p> <p><u>Atypicals</u></p> <p><i>Chlamydophila pneumoniae</i> <i>Mycoplasma pneumoniae</i> <i>Legionella pneumophila</i></p> <p><u>Resistant Markers</u></p> <p>mecA/C and MREJ KPC NDM OXA48 VIM IMP CTX-M (ESBL)</p>	<p>Following in-house documented procedures</p> <p>Biomerieux Biofire Film Array using multiplexed nucleic acid detection (PCR) ID 37879</p>	<p>STHK</p>



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HUMAN BODY FLUIDS (cont'd)	Molecular diagnostic examination activities for the purpose of clinical diagnosis (cont'd)	Following in-house documented procedures	
Sputum/ Tracheal Aspirates/ Bronchial Lavage	Pneumonia Panel (cont.): <u>Bacteria</u> <i>Acinetobacter</i> complex <i>Bordetella pertussis</i> <i>Enterobacter cloacae</i> complex <i>Escherichia coli</i> <i>Haemophilus influenza</i> <i>Klebsiella aerogenes</i> <i>Klebsiella oxytoca</i> <i>Klebsiella pneumonia</i> group Syndrome Coronavirus <i>Moraxella catarrhalis</i> <i>Proteus spp.</i> <i>Pseudomonas aeruginosa</i> <i>Staphylococcus aureus</i> <i>Streptococcus agalactiae</i> <i>Streptococcus pneumoniae</i> <i>Streptococcus pyogenes</i>	Biomerieux Biofire Film Array using multiplexed nucleic acid detection (PCR) ID 37879	SteITHK



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Schedule of Accreditation

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St Helens and Knowsley Teaching Hospitals NHS Trust

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Testing performed by the Organisation at the locations specified

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
Seminal Fluid	<u>Andrological examination activities for the purpose of clinical diagnosis</u> <u>Post vasectomy</u> Detection of sperm Sperm concentration	Following in-house documented procedures Semen analysis - post vasectomy manual techniques with cell counting chambers and microscopy ID 691 Semen analysis ID691 Semen Analysis	STHK
Seminal Fluid	<u>Fertility investigations</u> Volume Sperm morphology Sperm concentration Sperm motility	Semen analysis - fertility investigation manual techniques with cell counting chambers and microscopy according to WHO (2010) guidelines and CASA using SAMi for sperm concentration and motility ID 691 Semen analysis ID25656 Use of SAMi ID691 Semen Analysis Volume / weight Stained slides (Papanicolaou) microscopy Microscopy Microscopy	STHK
END			