


# Schedule of Accreditation

issued by

## United Kingdom Accreditation Service

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

 <b>9070</b>  Accredited to ISO 15189:2012	<b>Hywel Dda University Health Board</b>  Issue No: 012    Issue date: 21 November 2024	
	<b>Corporate Offices</b> Ystwyth Building Hafan Derwen St Davids Park Job's Well Road Carmarthen Carmarthenshire SA31 3BB	<b>Contact: Hannah Albery</b> Tel: +44 (0)1437 773120 E-Mail: <a href="mailto:hannah.albery@wales.nhs.uk">hannah.albery@wales.nhs.uk</a> Website: <a href="http://www.wales.nhs.uk/sitesplus/862/home">http://www.wales.nhs.uk/sitesplus/862/home</a>
Testing performed by the Organisation at the locations specified below		

### Locations covered by the organisation and their relevant activities

Laboratory locations		Activities	Location code
<b>Address</b> Pathology Department Withybush General Hospital Fishguard Road Haverfordwest Pembrokeshire SA6 12PZ	<b>Local contact</b> <b>Hannah Albery</b> Tel: +44 (0)1437 773120 E-Mail: <a href="mailto:hannah.albery@wales.nhs.uk">hannah.albery@wales.nhs.uk</a>	Biochemistry Haematology Blood Transfusion Blood storage and issue Microbiology Phlebotomy	WGH
Prince Philip Hospital Bryngwyn Mawr Dafen Llaneli Carmarthenshire SA14 8QF	<b>Hannah Albery</b> Tel: +44 (0)1437 773120 E-Mail: <a href="mailto:hannah.albery@wales.nhs.uk">hannah.albery@wales.nhs.uk</a>	Biochemistry Haematology Blood Transfusion Phlebotomy	PPH



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**Site activities performed away from the locations listed above:**

<b>Location details</b>	<b>Activity</b>
Withybush General Hospital Haverfordwest Pembrokeshire SA6 12PZ	Phlebotomy service
Prince Philip Hospital Bryngwyn Mawr Dafen Llanelli Carmarthenshire SA14 8QF	Phlebotomy service
Amman Valley Hospital Folan Road Glanamman SA18 2BQ	Phlebotomy service



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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	<u>Biochemistry examination activities for the purpose of clinical diagnosis</u>	Standard specifications/ Equipment/Techniques used	
Serum/Plasma	Acetaminophen (paracetamol)	Documented in-house procedures in conjunction with manufacturer's instructions for analysis using Roche 8000 (c702 and e602 modules) using colorimetry LPBIO618 Roche Cobas 8000	WGH, PPH
	Alkaline phosphatase		
	Conjugated bilirubin		
	Magnesium		
Plasma	Fructosamine	Cambridge Life Sciences assay kit Enzymatic using aryl acylamidase	PPH
	Total Protein		
	Total bilirubin		
Serum/Plasma/Urine	Albumin	Diazo method	WGH, PPH
	Creatinine	Jaffe method	WGH, PPH
Serum	Iron		WGH, PPH
	Lithium		
CSF	Lactate		WGH, PPH
Plasma	Lactate		WGH, PPH



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HUMAN BODY FLUIDS (cont'd)	<u>Biochemistry examination activities for the purpose of clinical diagnosis (cont'd)</u>	Documented in-house procedures in conjunction with manufacturer's instructions for analysis using Roche 8000 (c702 and e602 modules) using Electrochemiluminescence (competition or sandwich) LPBIO618 Roche Cobas 8000	
Serum	Digoxin		WGH, PPH
	CEA		PPH
Serum/Plasma	Vitamin B12		WGH, PPH
	Cortisol		WGH, PPH
	Folate		WGH, PPH
	Free T4		WGH, PPH
	Free T3		WGH, PPH
	Ferritin		WGH, PPH
	FSH		WGH, PPH
	LH		WGH, PPH
	βhCG		WGH, PPH
	Prolactin		WGH, PPH
	PSA		WGH, PPH



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HUMAN BODY FLUIDS (cont'd)	<u>Biochemistry examination activities for the purpose of clinical diagnosis (cont'd)</u>	Documented in-house procedures in conjunction with manufacturer's instructions for analysis using Roche 8000 (c702 and e602 modules) using enzymatic methods LPBIO618 Roche Cobas 8000	
Serum/Plasma	TSH		WGH, PPH
	Troponin T		WGH, PPH
	AFP		PPH
	PTH		WGH,
	Triglyceride		WGH, PPH
	Glucose		WGH, PPH
	Cholesterol		WGH, PPH
	Gamma Glutamyl Transferase		WGH, PPH
	HDL		WGH, PPH
Plasma	Alcohol		WGH, PPH
	Ammonia		WGH, PPH
Serum/Plasma/	Amylase		WGH, PPH
Serum	Uric Acid		WGH PPH
CSF	Glucose		WGH, PPH
Serum	Gentamicin		WGH, PPH



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HUMAN BODY FLUIDS (cont'd)	<u>Biochemistry examination activities for the purpose of clinical diagnosis</u> (cont'd)	Documented in-house procedures in conjunction with manufacturer's instructions for analysis using Roche 8000 (c702 and e602 modules) using immunoturbidimetric methods LPBIO618 Roche Cobas 8000		
Serum	Transferrin			WGH, PPH
	B2-microglobulin			WGH
	CA 125			WGH, PPH
	CA 15-3			PPH
	CA19-9			PPH
	Anti-TPO antibodies			PPH
	Total IgE			PPH
Serum/Plasma	α1-antitrypsin			WGH
	C3			WGH
	C4			WGH
	CRP			WGH, PPH
	Immunoglobulin A			WGH, PPH
	Immunoglobulin G			WGH, PPH
	Immunoglobulin M			WGH, PPH
	Rheumatoid factor			WGH, PPH



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HUMAN BODY FLUIDS (cont'd)	<u>Biochemistry examination activities for the purpose of clinical diagnosis (cont'd)</u>	Documented in-house procedures in conjunction with manufacturer's instructions for analysis using Roche 8000 (c702 and e602 modules) using other measurement principles listed below LPBIO618 Roche Cobas 8000	
Serum/Plasma	Aspartate aminotransferase	UV absorbance	WGH, PPH
	Alanine aminotransferase	UV absorbance	WGH, PPH
	Creatine kinase	UV absorbance	WGH, PPH
	Bicarbonate (ECO <sub>2</sub> )	UV absorbance	WGH, PPH
	Lactate dehydrogenase	UV absorbance	WGH, PPH
	Salicylate	UV absorbance	WGH, PPH
Serum/Plasma	Chloride	Ion selective electrodes	WGH, PPH
Serum/Plasma/Urine	BUN/Urea Blood/Urea/Nitrogen	Kinetic test with urease and glutamate hydrogenase	WGH, PPH
Serum/Plasma	Calcium	Photometrical	WGH, PPH
Serum/Plasma/Urine	Potassium	Ion-selective electrodes	WGH, PPH
Serum/Plasma	Phosphate	Molybdate UV	WGH, PPH
Serum/Plasma/Urine	Sodium	Ion-selective electrodes	WGH, PPH
Urine	Total Protein	Turbidimetric	WGH, PPH



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HUMAN BODY FLUIDS (cont'd)	<u>Biochemistry examination activities for the purpose of clinical diagnosis (cont'd)</u>	Documented in-house procedures in conjunction with manufacturer's instructions for analysis using Roche 8000 (c702 and e602 modules) using other measurement principles listed below LPBIO618 Roche Cobas 8000	
CSF	Protein	Turbidimetric	WGH, PPH
Serum	Vancomycin	KIMS	WGH, PPH
Serum/Plasma/Urine	Creatinine Clearance	Calculation	WGH, PPH
	Adjusted calcium	Calculation	WGH, PPH
	Calculated globulins	Calculation	WGH, PPH
Serum	eGFR	Calculation	WGH, PPH
Serum/Plasma	non-HDL Cholesterol	Calculation	WGH, PPH
Serum	Transferrin Saturation	Calculation	WGH, PPH
Serum	LDL Cholesterol	Calculation	WGH, PPH
Urine	Albumin/ Creatinine Ratio	Calculation	WGH, PPH
Urine	Protein/ Creatinine Ratio	Calculation	WGH, PPH
Serum	Serum Ascites Albumin Gradient (SAAG)	Calculation	WGH, PPH
Serum	Cholesterol/ HDL Cholesterol Ratio	Calculation	WGH, PPH





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HUMAN BODY FLUIDS (cont'd)	<u>Biochemistry examination activities for the purpose of clinical diagnosis (cont'd)</u>	Documented in-house procedures in conjunction with manufacturer's instructions for analysis using Roche 8000 (c702 and e602 modules) using other measurement principles listed below LPBIO618 Roche Cobas 8000	
Urine	Creatinine Output	Calculation	WGH, PPH
Urine	Potassium Output	Calculation	WGH, PPH
Urine	Protein Output	Calculation	WGH, PPH
Urine	Sodium	Calculation	WGH, PPH
Urine	Urea Output	Calculation	WGH, PPH



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<p>HUMAN BODY FLUIDS (cont'd)</p> <p>Whole Blood (Arterial)</p>	<p><u>Biochemistry examination activities for the purpose of clinical diagnosis</u> (cont'd)</p> <p>Blood Gases:</p> <p>pO<sub>2</sub></p> <p>Glucose Lactate</p> <p>ctHb sO<sub>2</sub> FO<sub>2</sub>Hb FCOHb FHHb FMetHb FHbF</p> <p>pH pCO<sub>2</sub> Potassium Sodium Calcium</p> <p>H<sup>+</sup> Bicarbonate Total CO<sub>2</sub> Base Excess Standard bicarbonate</p>	<p>Documented in-house procedures in conjunction with manufacturer's instructions for analysis</p> <p>Radiometer ABL Flex Plus Blood Gas Analyser LPBIO Radiometer ABL 90 Flex Plus Blood Gas Analyser</p> <p>Optical</p> <p>Amperometric</p> <p>Spectrophotometry</p> <p>Potentiometric</p> <p>Derived</p>	<p>WGH, PPH</p>



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HUMAN BODY FLUIDS (cont'd)	<u>Biochemistry examination activities for the purpose of clinical diagnosis (cont'd)</u>	Documented in-house procedures in conjunction with manufacturer's instructions for analysis using:	
Serum/Urine	Osmolality	Documented in-house procedures in conjunction with manufacturer's instructions for analysis using Vitech Scientific Advanced Osmo1 single sample Micro-Osmometer  Using freezing point depression measurement.  LPBIO631 Advanced Micro-osmometer	WGH, PPH
Serum/Urine	Detection and identification of abnormal protein bands.	SEBIA Hydrasys 2 Electrophoresis and immunoprecipitation  LPBIO038 Sebia Hydrasys for Electrophoresis and Immunofixation	WGH
Urine	Bence Jones Protein Output	Calculated test	WGH
Serum	Detection and identification of abnormal protein bands	Sebia Capillarys 3 Octa Capillary by electrophoresis and immunotyping LPBIO046	WGH
Whole blood (EDTA)	HbA1c	Tosoh G8 analyser using HPLC  LPBIO621 TOSOH G8 HbA1c analyser	WGH, PPH
Serum	Quantification of kappa and lambda free light chains	Automated immunoassay using kits produced by the Binding Site on the Optilite analyser  LPBIO45	WGH
	Kappa (κ)/Lambda (λ) ratio	By Calculation	WGH



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HUMAN BODY FLUIDS (cont'd)	<u>Haematology examination activities for the purpose of clinical diagnosis</u>	Documented in-house procedures in conjunction with manufacturer's instructions for analysis using:	
EDTA Plasma	Qualitative detection of infectious mononucleosis IgM heterophile antibodies	Clearview IM II test kit  Qualitative lateral flow immunoassay  LPHAE604 Infectious Mononucleosis	WGH, PPH
Whole blood (EDTA)	Sickle cell screening – Haemoglobin S	Streck Sickledex test kit (Blood) Qualitative solubility LPHAE610 Sickle screening: Sickledex testing Kit	WGH, PPH
Blood films	Detection of <i>Plasmodium</i> spp.	Stained blood films (Combination of routine 'Modified Wrights' and Giemsa)	WGH, PPH
	Detection of Malarial antigens of: <i>Plasmodium falciparum</i> and pan-detection for: <i>Plasmodium falciparum</i> , <i>Plasmodium Malariae</i> , <i>Plasmodium Ovale</i> , <i>Plasmodium vivax</i>	CareStart Malaria Rapydtest Kit  LPHAE600 Laboratory detection of malarial parasites	
Whole blood (EDTA)	Full blood count <ul style="list-style-type: none"> <li>• Haemoglobin</li> <li>• White cell count</li> <li>• Red cell count</li> <li>• Platelets</li> <li>• HCT</li> <li>• MCV</li> <li>• MCH</li> <li>• MCHC</li> <li>• Differential Reticulocytes</li> </ul>	Siemens Advia 2120i analyser  Using spectrophotometry, impedance, and flow cytometry measurement.  LPHAE607 Siemens Advia 2120i Full Blood Count Analyser	WGH



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HUMAN BODY FLUIDS (cont'd)	<u>Haematology examination activities for the purpose of clinical diagnosis (cont'd)</u>	Documented in-house procedures in conjunction with manufacturer's instructions for analysis using:	
Whole blood (EDTA)	Full blood count <ul style="list-style-type: none"> <li>• Haemoglobin</li> <li>• White cell count</li> <li>• Red cell count</li> <li>• Platelets</li> <li>• HCT</li> <li>• MCV</li> <li>• MCH</li> <li>• MCHC</li> <li>• Differential</li> <li>• Reticulocytes</li> </ul>	Siemens Advia 2120i analyser  Using spectrophotometry, impedance, and flow cytometry measurement.  LPHAE607 Siemens Advia 2120i Full Blood Count Analyser	PPH
Blood films	Reporting of normal and abnormal morphologies	Automated Siemens Haematek stainer using modified Wrights stain pack Manual light microscopy  LPHAE601 Preparation and staining of blood films  LPHAE140 Examination and reporting of blood films	WGH PPH
Whole blood (EDTA)	ESR	Sediplus S2000 automated reader Using sedimentation measurement  LPHAE106 Performance of ESR tests  Vesmatic 30 Automated ESR Reader by sedimentation  LPHAE609 Automated ESR	WGH     PPH



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HUMAN BODY FLUIDS (cont'd)	<u>Haematology examination activities for the purpose of clinical diagnosis</u> (cont'd)	Documented in-house procedures in conjunction with manufacturer's instructions for analysis using:	
Bone Marrow aspirates	Detection of morphological changes of clinical significance	Automated Siemens Haematek stainer using Modified Wrights stain pack  Manual light microscopy LPHAE109 Laboratory procedures for dealing with bone marrows LPHAE Examination and reporting of blood films	WGH
Bone Marrow aspirates	Detection of morphological changes of clinical significance	Automated Siemens Haematek stainer using modified Wrights stain pack Manual light microscopy LPHAE608 Bone marrows	PPH
Citrated plasma	Coagulation <ul style="list-style-type: none"> <li>• aPTT</li> <li>• PT</li> </ul>	Sysmex TCoag KC1. Semi-automated coagulation analyser  Using mechanical clot detection  LPHAE138 Use of KC1 Coag Analyser	WGH
Citrated plasma	Coagulation <ul style="list-style-type: none"> <li>• APTT</li> <li>• PT</li> <li>• INR</li> <li>• D-Dimer</li> <li>• Fibrinogen</li> <li>• Lupus anticoagulant</li> <li>• Factor assays (VIII)</li> <li>• Anti-Xa</li> </ul>	Werfen ACLTOP 350 LPHAE611	WGH
Citrated plasma	Coagulation <ul style="list-style-type: none"> <li>• aPTT</li> <li>• PT</li> <li>• INR</li> <li>• D-Dimer</li> <li>• Fibrinogen</li> </ul>	Werfen ACLTOP 350 LPHAE611	PPH



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<p>HUMAN BODY FLUIDS (cont'd)</p> <p>Whole blood (EDTA)</p> <p>Whole blood (EDTA)</p>	<p><u>Blood Transfusion examination activities for the purpose of clinical diagnosis</u></p> <p>Kleihauer test for Foetomaternal haemorrhage</p> <p>Blood grouping and typing by identification of the following antigens</p> <p>Group A, B, D and c</p> <p>Screening and identification of the antibodies against the following antigens: D, E, e, C, c, K, k, Fya, Fyb, Jk(a), Jk(b), S, S, M, N, P1, Le(a) and Le(b)</p>	<p>Documented in-house procedures in conjunction with manufacturer's instructions for analysis using:</p> <p>Guest Medical foetal red cell detection kit Acid elution technique LPBTR600 Kleihauer</p> <p>Ortho Clinical Diagnostics BioVue Vision and Ortho Workstation</p> <p>LPBTR604 LPBTR605</p>	<p>WGH</p> <p>WGH PPH</p> <p>WGH PPH</p> <p>WGH PPH</p>



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HUMAN BODY FLUIDS (cont'd)	<u>Blood Transfusion examination activities for the purpose of clinical diagnosis</u> (cont'd)	Documented in-house procedures in conjunction with manufacturer's instructions for analysis using Ortho Clinical Diagnostics Vision and Ortho Workstation	
Whole blood (EDTA)	Red cell antigen phenotyping for the following:	Manual serological Haemagglutination	WGH
	Le(a), Le(b), Fy(a), Fy(b), M, S, s, C, c, E, e, Jk(a), Jk(b)	Automated serological haemagglutination  LPBTR104 Red cell typing LPBTR907 Red cell phenotyping LPBTR604 Ortho Clinical Diagnostics: Ortho Vision SOP LPBTR605 Ortho Clinical Diagnostics: Ortho Workstation SOP	PPH
Whole blood (EDTA)	Cross-match	LPBTR604 Ortho Clinical Diagnostics LPBTR605 Ortho Clinical Diagnostics: Ortho Workstation	WGH PPH
Whole blood (EDTA)	Direct Antiglobulin Test	LPBTR604 Ortho Clinical Diagnostics: Ortho Vision SOP LPBTR605 Ortho Clinical Diagnostics: Ortho Workstation	WGH PPH





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HUMAN BODY TISSUES/FLUIDS	<u>Microbiological examination activities for the purpose of clinical diagnosis</u>	Documented in-house procedures in conjunction with manufacturer's instructions for analysis using:	
Whole blood	Isolation of microorganisms of clinical significance	Automated culture using Bactec Fx  WBSOP037 LPMIC010	WGH
CSF, Ear Swabs, Eye Swabs, Faeces, Fluids, Genital Swabs, Nasal, Oral & Throat Swabs, Neonatal Screening Swabs, Pernal Swabs, Pus, Sputum, BAL & associated specimens, Tissues & Biopsies, Wound Swabs, Bone & Prosthetic Joint samples	Isolation, identification and antimicrobial sensitivity testing of bacterial isolates of clinical significance	In House documented methods based on related UK Standards for Microbiology Investigations (SMIs)  Manual culture on a variety of agar plates. Bacterial identification using manual biochemical methods  Susceptibility testing using EUCAST methodology WBSOP027, LPMIC012 WBSOP001, LPMIC013 LPMIC014 WBSOP002, LPMIC015 WBSOP030, LPMIC016 WBSOP025, WBSOP026, LPMIC018 WBSOP028, LPMIC020 WBSOP005, WBSOP004, WBSOP009, LPMIC023 WBSOP023, LPMIC025 WBSOP005, LPMIC026 LPMIC027 WBSOP041, LPMIC030 WBSOP057, LPMIC031 WBSOP017, LPMIC032	WGH
Swabs/Urines	Screening for Methicillin-Resistant Staphylococcus aureus (MRSA)	Manual culture using chromogenic media  WBSOP029, LPMIC022	WGH
Settle Plates Contact Plates Broths	Isolation and identification of microorganisms	Examination of Pharmacy samples  LPMIC027	WGH



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HUMAN BODY TISSUES/FLUIDS (cont'd)	<u>Microbiological examination activities for the purpose of clinical diagnosis (cont'd)</u>	Documented in-house procedures in conjunction with manufacturer's instructions for analysis using:	
Urine	Detection and quantification of red blood cells, white blood cells, epithelial cells, casts, yeasts, parasites, cysteine crystals and sperm	Manual Microscopy WBSOP014, LPMIC028	WGH
Faeces	<u>Parasitology examination activities for the purpose of clinical diagnosis</u>		
	Detection and identification of ova, cysts and parasites	Manual concentration method using ParaSep kit. Light microscopy. LPMIC016	WGH
	Detection and identification of cryptosporidium and Giardia	Manual wet prep for Giardia Auramine stain for Cryptosporidium Light microscopy. LPMIC016	WGH
	<u>Mycology examination activities for the purpose of clinical diagnosis</u>		
Skin, hair and nails	General isolation and characterisation of fungi and yeasts of clinical significance	Manual culture and microscopy method using documented in-house procedures WBSOP039, LPMIC019	WGH



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HUMAN BODY TISSUES/FLUIDS (cont'd)	<u>Microbiological examination activities for the purpose of clinical diagnosis (cont'd)</u>	Documented in-house procedures in conjunction with manufacturer's instructions for analysis using:	
Faeces	Detection of Helicobacter pylori antigen	Manual method: Proflow (Prolab) membrane immunoassay kit  WBSOP006, LPMIC021	WGH
Faeces	Detection of Rotavirus/Adenovirus	RIDA QUICK Rotavirus/Adenovirus Combi (Immunochromatographic) LPMIC039	WGH
Faeces	Detection of Clostridium difficile GDH and Toxin (A&B)	RIDA QUICK C. Diff GDH and toxins A&B (Immunochromatographic) WBSOP010, LPMIC040  LPMIC047	WGH
Urine	Detection of Streptococcus pneumonia antigen	Diagnostica Immuvue rapid lateral flow kit LPMIC036	WGH
Urine	Detection of Legionella pneumophila antigen	Diagnostica Immuvue rapid lateral flow kit LPMIC036	WGH
Serum	Detection of: HIV Hepatitis B surface antigen Hepatitis C antibody Hepatitis B antibody	Cobas e411 Immunoassay – sandwich principle LPMIC086 Roche Cobas e411 SOP: LPBIO630 v1 (Infinity middleware); LPMIC086 v3;	WGH



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## Schedule of Accreditation

issued by

### United Kingdom Accreditation Service

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

### Hywel Dda University Health Board

Issue No: 0012 Issue date: 21 November 2024

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
HUMAN BODY TISSUES/FLUIDS (cont'd)	<u>Molecular examination activities for the purpose of clinical diagnosis</u> (cont'd)	Documented in-house procedures in conjunction with manufacturer's instructions for analysis using:	WGH
Throat Swab	Molecular detection of Flu A, Flu B, RSV & SARS-CoV-2	PCR using the Cepheid GeneXpert LPMIC084 Cepheid Xpert Xpress Flu A, Flu B, RSV & SARS-CoV-2	WGH
Throat swab	Molecular detection of respiratory pathogens  Adenovirus Coronavirus 229E Coronavirus HKU1 Coronavirus NL63 Coronavirus OC43 Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2) Human Metapneumovirus Human Rhinovirus/Enterovirus Influenza A virus , including subtypes H1, H3, H1-2009 Influenza B virus Parainfluenza virus 1 Parainfluenza virus 2 Parainfluenza virus 3 Parainfluenza virus 4 Respiratory syncytial virus Bordetella parapertussis Bordetella pertussis Chlamydia pneumoniae Mycoplasma pneumoniae	PCR using Biofire LPMIC078 Molecular testing for Respiratory pathogens using Biofire FilmArray Torch	WGH



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN BODY TISSUES/FLUIDS (cont'd)	<u>Molecular examination activities for the purpose of clinical diagnosis (cont'd)</u>	Documented in-house procedures in conjunction with manufacturer's instructions for analysis using:	
Faeces	Molecular detection of Clostridioides difficile	PCR using the Cepheid GeneXpert LPMIC085 Clostridioides difficile PCR	WGH
Swabs Urine	Molecular detection of MRSA & CPO	PCR using the Cepheid GeneXpert LPMIC022 Screening Specimens	WGH
Faeces	Molecular detection of Norovirus	PCR using the Cepheid GeneXpert LPMIC083 Norovirus PCR	WGH
END			