


# Schedule of Accreditation

issued by

## United Kingdom Accreditation Service

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

 <p><b>UKAS</b> MEDICAL 8448</p> <p>Accredited to ISO 15189:2012</p>	<p><b>Barnsley Hospital NHS Foundation Trust</b></p> <p>Issue No: 008    Issue date: 10 June 2021</p>	
	<p>Department of Pathology Barnsley Hospital Gawber Road Barnsley S75 2EP United Kingdom</p>	<p>Contact: Heather Da Costa Tel: +44 (0) 1226 432289 Fax: +44 (0) 1226 432627 E-Mail: rgh-tr.brilsqualityteam@nhs.net Website: www.barnsleyhospital.nhs.uk/pathology</p>
<p>Testing performed at the above address only</p>		

### Laboratory locations:

Location Details	Activity	Location Code
Department of Pathology Gawber Road Barnsley S75 2EP	Biochemistry Haematology & Blood Transfusion Cellular Pathology Microbiology	A

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

Location Details	Activity	Location Code
OPD Barnsley Hospital Gawber Road Barnsley S75 2EP	Phlebotomy	B
Market Street Surgery Warehouse Lane Wath-upon-Deerne S63 7RA	Phlebotomy	C
Mortuary Barnsley Hospital Gawber Road Barnsley S75 2EP	Post Mortem activities Body storage	D
As detailed in a controlled list of Home Working Locations – SOP: QU-CPA-D-45	Morphological assessment, interpretation/diagnosis and reporting on pre-prepared slides	E



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DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
HUMAN BODY FLUIDS	<u>Biochemistry examination activities for the purposes of clinical diagnosis:</u>	Documented in-house methods and manufacturer's operating instructions as specified to support clinical diagnosis:
Serum	Alkaline Phosphatase, Alanine Aminotransferase (ALT), Aspartate Aminotransferase (AST), Creatine Kinase (CK), Gamma Glutamyl Transferase (GGT)	Siemens LabCell SOP-CB-RC-018 Siemens Advia 2400 SOP-CB-RC-013
Serum	Carbamazepine, Phenytoin, Sodium Valproate, Theophylline,	
Serum	Bilirubin (conjugated), HDL, Iron, Paracetamol, Salicylate, Lithium, Creatinine (enzymatic)	
Serum	Rheumatoid Factor, IgG, IgA, IgM CRP, Transferrin	
Urine	Amphetamines, Benzodiazepine, Cocaine metabolites, Cannaboids, Opiates, Methadone.	
Urine	Albumin (micro)	
Serum, Urine	Amylase, urea	
Serum, Urine	Sodium, Chloride, Potassium,	
Serum, Urine	Uric Acid	
Serum, Urine	Calcium, Magnesium, Phosphate.	



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HUMAN BODY FLUIDS	<u>Biochemistry examination activities for the purposes of clinical diagnosis:</u>	Documented in-house methods and manufacturer's operating instructions as specified to support clinical diagnosis:
Serum, Urine	Alcohol (ethanol),	Siemens LabCell SOP-CB-RC-018
Serum	Cholesterol (total), Triglyceride, Albumin, Bilirubin (total), Protein (total).	Siemens Advia 2400 SOP-CB-RC-013
Serum	LDH	
Urine	Creatinine (Jaffe)	
Blood, CSF	Glucose	
Urine, CSF	Protein	
Whole Blood	Ammonia	SOP-CB-MAN-002 PocketChem BA blood ammonia meter (micro-diffusion method with bromocresol green indicator)
Urine	Urinalysis: Protein, Blood, Leucocytes, Nitrite, Glucose, Ketone, pH, Specific Gravity, Urobilinogen, Bilirubin	SOP-CB-MAN-009 Clinitek Status (Multistix 10SG dipsticks)
Urine	Pregnancy Test – Detection of HCG	SOP-CB-POCT-PO13 Siemens Clinitest cartridge on Clinitek Status (chromatographic immunoassay)
Whole Blood	pCO <sub>2</sub> , sodium, potassium, ionized calcium, chloride  pO <sub>2</sub> , glucose  Carbon Monoxide, Carboxyhaemoglobin, Methaemoglobin, Oxyhaemoglobin	IL GEM 4000 Cartridge blood gas using electrochemical sensors SOP-CB-POCT-D-23



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Whole Blood,	Lactate	IL GEM 4000 Cartridge blood gas using electrochemical sensors SOP-CB-POCT-D-23
Whole Blood	pH	
Serum	Anti-CCP, Phenobarbitone, Digoxin, Gentamicin, B12, Folate, Ferritin, AFP, CA125, CA199, CEA, Light chain antibody, HCG, PSA, Cortisol, Oestradiol, Progesterone, FSH, LH, Prolactin, Macroprolactin, Testosterone, SHBG, TSH-ultra, Free T3, Free T4, High sensitivity Troponin I, Vitamin D, PTH	Siemens Centaur XP (Chemiluminescence) SOP-CB-END-019
Plasma	Brain natriuretic peptide (BNP)	
Whole Blood (EDTA)	HbA1c	SOP-BS-058 Launch Akray HA8180 (reverse phase cation exchange HPLC)
Serum, Urine	Osmolality	SOP-CB-MAN-006 Advanced Micro-Osmometer 3320 (freezing Point Depression Osmometer).
	Calculation of:	Calculated Tests using Clinisys Winpath
Serum	Osmolar Gap	
Serum	Globulin	
Serum	Adjusted Calcium	
Serum	Cholesterol: HDL ratio	
Serum	LDL	
Serum	Non-HDL cholesterol	
Serum	Iron binding capacity	
Serum	Transferrin saturation	



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<p>HUMAN BODY FLUIDS</p> <p>Urine</p> <p>Urine</p> <p>Urine</p> <p>Urine</p> <p>Urine</p> <p>Urine</p> <p>Urine</p> <p>Urine</p> <p>Urine</p> <p>Urine</p> <p>Urine</p> <p>Urine</p> <p>Urine</p> <p>Urine</p> <p>Urine</p> <p>Urine</p> <p>Urine</p> <p>Serum</p> <p>Serum</p> <p>Serum</p>	<p><u>Biochemistry examination activities for the purposes of clinical diagnosis</u></p> <p>Calculation of:</p> <p>24 hour sodium</p> <p>24 hour potassium</p> <p>24 hour chloride</p> <p>24 hour urea</p> <p>24 hour creatinine</p> <p>24 hour calcium</p> <p>Calcium: creatinine ratio</p> <p>Calcium excretion</p> <p>Calcium clearance</p> <p>24 hour phosphate</p> <p>24 hour urate</p> <p>24 hour magnesium</p> <p>24 hour protein</p> <p>Protein: creatinine ratio</p> <p>Urate: creatinine ratio</p> <p>Macroprolactin recovery</p> <p>Estimated Glomerular Filtration Rate (eGFR)</p> <p>Acute Kidney Injury (AKI)</p>	<p>Documented in-house methods and manufacturer's operating instructions as specified to support clinical diagnosis:</p> <p>Calculated Tests using Clinisys Winpath</p>



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HUMAN BODY FLUIDS	<u>Biochemistry examination activities for the purposes of clinical diagnosis</u>  Calculation of:	Documented in-house methods and manufacturer's operating instructions as specified to support clinical diagnosis:  Calculated Tests using Clinisys Winpath
HUMAN BODY FLUIDS	<u>Haematology examination activities for the purposes of clinical diagnosis:</u>	Documented in-house methods and manufacturer's operating instructions as specified to support clinical diagnosis:
Whole Blood (EDTA)	Full blood count: platelets, red blood cells, haemoglobin, haematocrit, MCV, MCH, MCHC, RDW, White cell count, neutrophils, Lymphocytes, Monocytes, Eosinophils, Basophils, LUCs	Siemens ADVIA2120i analyser flow cytometry and laser light refraction. SOP-HAE-ROU-016
Whole Blood (EDTA)	Blood film assessment and differential count: Metamyelocytes, Myelocytes, Promyelocytes, Blasts, Nucleated RBC	Siemens Hematek 3000 Automated Stainer and manual stains (pH 6.8 Wright Giemsa) Examination by light microscopy SOP-HAE-ROU-D-12 SOP-HAE-ROU-022
Whole Blood (EDTA)	Reticulocytes	Siemens ADVIA2120i analyser flow cytometry and laser light refraction. SOP-HAE-ROU-016 SOP-HAE-ROU-029
Whole Blood (EDTA)	Erythrocyte Sedimentation Rate (automated)	Vitech Starrsed Compact – Westergren method. SOP-HEA-ROU-002
Citrated Plasma	Mixing studies using 50:50 Normal pooled plasma: patient plasma for the investigation of deranged PT &/or APTT results.	SOP-HAE-COAG-D-1 SOP-HAE-COAG-D-23 Immunturbidometric
Serum/Plasma	Glandular fever - Detection of Infectious mononucleosis antibodies	SOP-HAE-ROU-003 Accusay Mono Immunoassay



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<p>HUMAN BODY FLUIDS</p> <p>Whole Blood (EDTA)</p> <p>Whole Blood (EDTA)</p> <p>Citrated Plasma</p>	<p><u>Haematology examination activities for the purposes of clinical diagnosis:</u></p> <p>Antigen detection for M. Plasmodium falciparum, Plasmodium vivax, Plasmodium ovale and Plasmodium malariae. Blood film characteristics and morphology for detection of malarial parasite</p> <p>Detection of abnormal haemoglobin (Sickle cell)</p> <p>PT/INR PTT Fibrinogen Actin FS APTT</p> <p>D-Dimer</p>	<p>Documented in-house methods and manufacturer's operating instructions as specified to support clinical diagnosis:</p> <p>SOP-HAE-ROU-015 pH 7.2 Giemsa stain</p> <p>SOP-HAE-COAG-D-5 Microgen Tube Test (quantitative method using sodium dithionite)</p> <p>Stago STA-R Evolution SOP-HAE-COAG-D-1 SOP-HAE-COAG-D-23</p> <p>Immunoturbidometric</p> <p>Chromogenic</p>



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<p>HUMAN BODY FLUIDS</p> <p>Blood</p>	<p><u>Transfusion examination activities for the purposes of clinical diagnosis</u></p> <p>Blood Grouping by antigen detection:</p> <p>ABO blood groups.</p> <p>Rhesus blood group antigens: C, c, D, E, e.</p> <p>Kell (K1) blood group antigen.</p> <p>Screen for red cell antibodies and antibody identification. Antibodies include anti-: C<sup>w</sup>, C, c, D, E, e, K, k, Kp(a), Jk(a), Jk(b), Fy(a), Fy(b), Lu(a), M, N, S, s, Le(a), Le(b), P<sub>1</sub>.</p> <p>Cross matching (compatibility testing of patient's plasma with donor red cells)</p>	<p>Documented in-house methods and manufacturer's operating instructions as specified to support clinical diagnosis:</p> <p>Documented in-house method using Bio-Rad IH-1000 BT analyser, fully automated using Bio-Rad card technology using protocol:</p> <p>SOP-HAE-BB-003 – Use of the IH-1000</p> <p>SOP-HAE-BB-012 – Procedure for the identification of atypical red cell antibodies</p>





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HUMAN BODY FLUIDS	<u>Transfusion examination activities for the purposes of clinical diagnosis (cont'd)</u>	Documented in-house methods and manufacturer's operating instructions as specified to support clinical diagnosis:
Blood	Manual Blood Grouping by antigen detection:  ABO blood groups.  Rhesus group antigens: C, c, D, E, e.  Screen for red cell antibodies and antibody identification. Antibodies include anti-: C <sup>w</sup> , C, c, D, E, e, K, k, Kp(a), Jk(a), Jk(b), Fy(a), Fy(b), Lu(a), M, N, S, s, Le(a), Le(b), P <sub>1</sub> .  Phenotyping by antigen detection. Antigens include: K, Fy(a), Fy(b), S, s, M, N, Jk(a), Jk(b).  Cross matching (compatibility testing of patient's plasma with donor red cells)	Manual procedures using Bio-Rad card technology and Banjo ID-Reader Reader using protocols:  SOP-HAE-BB-020 – Manual Card Grouping SOP-HAE-BB-006 – Manual Antibody Screening SOP-HAE-BB-042 – Manual Tube Grouping SOP-HAE-BB-019 – Procedure for the selection and crossmatch of red cells SOP-HAE-BB-012 – Procedure for the identification of atypical red cell antibodies SOP-HAE-BB-013 – Red cell Phenotyping  SOP-HAE-BB-021 – Selection and Issue of products for Paeds and Neonates  SOP-HAE-BB-D-47 Use of the Banjo ID-Reader
Blood	Quantification of fetal-maternal hemorrhage (Kleihauer Screen)	Kleihauer testing by acid elution followed by microscopy using protocol:  SOP-HAE-BB-001 – Estimation of FMH by Acid Elution
Blood	Detection of monospecific antiglobulins (Monospecific DAT – manual)	Bio-Rad monospecific direct antiglobulin card technology using protocol:  SOP-HAE-BB-022 – Direct Antiglobulin Test  SOP-HAE-BB-D-47 Use of the Banjo ID-Reader



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HUMAN BODY FLUIDS  Blood	<u>Transfusion examination activities for the purposes of clinical diagnosis (cont'd)</u>  Detection of monospecific antiglobulins (Monospecific DAT - automated)	Documented in-house methods and manufacturer's operating instructions as specified to support clinical diagnosis:  Bio-Rad IH-1000 BT analyser, fully automated using Bio-Rad monospecific direct antiglobulin card technology using protocol:  SOP-HAE-BB-003 – Use of the IH-1000 SOP-HAE-BB-022 – Direct Antiglobulin Test



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<p>HUMAN BODY TISSUE</p> <p>Fixed and fresh tissue, excisional and incisional biopsies and surgical resection specimens</p>	<p><u>Histopathological and Cytological examination activities for the purposes of clinical diagnosis</u></p> <p>Examination of tissues in order to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis</p>	<p>Documented in-house methods and manufacturer's operating instructions as specified to support clinical diagnosis:</p> <p><u>Specimen Dissection</u>            SOP-CP-HIST-001 Specimen Dissection - General Laboratory Procedures            SOP-CP-HIST-D-33 Specimen Dissection - Gastro-Intestinal System            SOP-CP-HIST-D-44 Specimen Dissection – Breast            SOP-CP-HIST-D-45 Specimen Dissection - Female Reproductive System            SOP-CP-HIST-D-46 Specimen Dissection - Head &amp; Neck/ Respiratory            SOP-CP-HIST-D-47 Specimen Dissection - Lymphoreticular System            SOP-CP-HIST-D-48 Specimen Dissection - Male Reproductive System            SOP-CP-HIST-D-49 Specimen Dissection – Skin            SOP-CP-HIST-D-50 Specimen Dissection - Urology            SOP-CP-HIST-D-1 Radioactive Sentinel Nodes and Breast Specimens            SOP-CP-HIST-D-42 Bowel Cancer Screening Polyp Cut up and Reporting SOP</p> <p><u>Tissue Processing</u>            SOP-CP-HIST-002 Specimen Processing            Leica ASP300/ ASP6025 Processor</p>



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HUMAN BODY TISSUE	<u>Histopathological and Cytological examination activities for the purposes of clinical diagnosis (cont'd)</u>	Documented in-house methods and manufacturer's operating instructions as specified to support clinical diagnosis:
Formalin- fixed paraffin tissue blocks		<u>Microtomy</u> SOP-CP-HIST-002 Specimen Processing Leica Microtome
Formalin- fixed, paraffin-embedded tissue sections or cytological preparations on microscope slides	Examination of tissues in order to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis	Haematoxylin and Eosin stain - Automated and manual:  SOP-CP-HIST-002 Specimen Processing Leica staining machine SOP-CP-HIST-006 Histology Staining Manual
Formalin- fixed, paraffin-embedded tissue sections or cytological preparations on microscope slides	Examination of tissues in order to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis	<u>Special staining - Manual</u> SOP-CP-HIST-006 Histology Staining Manual:
	Acid mucins	Alcian Blue
	Acid and neutral mucins	Combined Alcian Blue/PAS
	Amyloid	Congo Red (Highman's)
	Elastic fibres	Elastin Van Gieson (Miller's)
	Gram +/- organisms	Gram
	Nuclei and other cellular components	Haematoxylin/van Gieson
	Argentaffin granules and melanin	Masson Fontana
	Connective Tissue	Masson Trichrome
	Fibrin	MSB
	Protozoans	Modified Giemsa



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HUMAN BODY TISSUE (cont'd)  Formalin- fixed, paraffin-embedded tissue sections or cytological preparations on microscope slides	<u>Histopathological and Cytological examination activities for the purposes of clinical diagnosis (cont'd)</u>	Documented in-house methods and manufacturer's operating instructions as specified to support clinical diagnosis:
	PAS negative substances	Periodic Acid Schiff Reaction (PAS)
	Glycogen	Diastase PAS (D-PAS)
	Iron	Perl's' Prussian Blue
	Reticulin fibres	Reticulin (Gordon & Sweet's
	Hepatitis B and copper-associated protein	Shikata's Orcein
	Mycobacterium leprae (leprosy)	Wade-Fite
	Tubercle bacilli (TB)	Ziehl Neelsen
	<u>Immunohistochemistry</u>	SOP-CP-HIST-60 ICC: Ventana Benchmark ULTRA Roche (Ventana) Autostainer
	Adenocarcinomas, breast, pancreas, bile duct, salivary gland and transitional cell carcinomas	Anti-keratin 34BE12
	Smooth muscle actin	Actin (SMA)
	Epithelial cells	AE1/AE3/PCK26 Pan Keratin
	Foetal liver cells	Alpha-Fetoprotein
	Tubular Epithelial Cells	AMACR
Scattered T cells in germinal centres and mantle zone B cells	bcl-2 (124)	
Epithelial cells	Epithelial Specific Antigen (Ber-EP4)	
Cytoplasmic protein	Beta Catenin	
Luminal cells of fallopian tube	CA125, P16	



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HUMAN BODY TISSUE (cont'd)	<u>Histopathological and Cytological examination activities for the purposes of clinical diagnosis (cont'd)</u>	Documented in-house methods and manufacturer's operating instructions as specified to support clinical diagnosis:
Formalin- fixed, paraffin-embedded tissue sections or cytological preparations on microscope slides	<u>Immunohistochemistry (cont')</u>	SOP-CP-HIST-60 ICC: Ventana Benchmark ULTRA Roche (Ventana) Autostainer
	Ductal epithelium	CA19.9
	Peripheral nerve ganglion	Calretinin
	T cells	CD3
	All germinal centre cells of tonsil	CD10
	Germinal mantle zone B lymphocytes	CD20
	Activated lymphocytes and plasma cells. RS Cells in Hodgkins lymphoma	CD30
	Endothelial cells, activated B & T lymphocytes	CD31
	Endothelial cells	CD34
	All leucocytes	CD45
	Peripheral nerves	CD56
	Macrophages	CD68
	Nuclei of intestinal epithelial cells	CDX-2
	Glycosyl phosphatidyl inositol (GPI) cell surface anchored glycoproteins	CEA
	Islets of Langerhan cells of the pancreas	Chromogranin A
	Squamous epithelium	CK5/6
	Transitional epithelium of ureter	CK7
	Cytokeratin	Cytokeratin 8&18



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<p>HUMAN BODY TISSUE</p> <p>Formalin- fixed, paraffin-embedded tissue sections or cytological preparations on microscope slides</p>	<p><u>Histopathological and Cytological examination activities for the purposes of clinical diagnosis (cont'd)</u></p> <p><u>Immunohistochemistry (cont')</u></p> <p>Adenocarcinoma arising from epithelia</p> <p>Mast Cells</p> <p>Smooth and striated muscle cells</p> <p>Epithelial membrane cells</p> <p>Epithelial cells of the kidney</p> <p>Trophoblasts of placenta, secreting HCG</p> <p>Melanoma cells</p> <p>Proliferating cells in germinal centre B cells</p> <p>Melanocytes</p> <p>Cytokeratins</p> <p>Breast cancer and normal gland</p> <p>Colon adenocarcinoma</p> <p>Squamous epithelium</p> <p>Trophoblasts of placenta</p> <p>Prostate gland</p> <p>Schwann cell, adipocytes, cartilage</p> <p>Myoepithelial cells of papillary breast lesions</p> <p>Islets of Langerhans cells of pancreas</p>	<p>Documented in-house methods and manufacturer's operating instructions as specified to support clinical diagnosis:</p> <p>SOP-CP-HIST-60 ICC: Ventana Benchmark ULTRA Roche (Ventana) Autostainer</p> <p>CK20</p> <p>C-KIT (CD117)</p> <p>Desmin</p> <p>E-Cadherin (36)</p> <p>EMA (E29)</p> <p>HCG</p> <p>HMB45</p> <p>Ki67 (30-9)</p> <p>Melan A</p> <p>MNF116</p> <p>Oestrogen Receptor (ER)</p> <p>p53</p> <p>p63</p> <p>PLAP</p> <p>PSA</p> <p>S100</p> <p>SMM</p> <p>Synaptophysin</p>



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Formalin- fixed, paraffin-embedded tissue sections or cytological preparations on microscope slides	<u>Immunohistochemistry (cont')</u>  Endothelium, mesothelium  Follicular epithelial cells of thyroid  Follicular epithelial cells of thyroid, type II pneumocytes  Mesenchymal cells  Mesenchymal cells	SOP-CP-HIST-60 ICC: Ventana Benchmark ULTRA Roche (Ventana) Autostainer  Thrombomodulin  Thyroglobulin  TTF-1 (SP141)  Vimentin  WT-1
Stained formalin- fixed, paraffin-embedded tissue sections or cytological preparations on microscope slides	Examination of tissues in order to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis	Documented in-house procedure in conjunction with manufacturers' instructions for Olympus Microscope, Leica Microscope: SOP-CP-HIST-D-36 Reporting Procedure (Consultant Histopathologists)
Stained cytological preparations on microscope slides	Examination of tissues in order to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis  Basic cellular components	By microscopy using documented in-house procedures: Special staining (Non-Gynae Cytology) -_Manual SOP-CP-HIST-010 Non Gynae Cytology  Papanicolaou (PAP)





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HUMAN BODY TISSUE/FLUIDS	<u>Microbiology examination activities for the purpose of clinical diagnosis</u>	Documented in-house methods and manufacturer's operating instructions for as specified to support clinical diagnosis:
Blood	General isolation and characterisation of micro-organisms of clinical significance	<u>Automated</u> culture using Bact/Alert blood culture system: SOP-MC-BAC-028
HUMAN BODY FLUIDS (cont'd)	<u>Microbiology examination activities for the purpose of clinical diagnosis (cont'd)</u>	Documented in-house methods and manufacturer's operating instructions for as specified to support clinical diagnosis:
Swabs from various body sites, and various body specimens: Wound swabs, swabs from other body sites, sterile ascitic and joint fluids, corneal scrapes, aqueous and vitreous fluids, bronchial alveolar lavage, , small fragments of bone and tissue taken at operation, IV Cannula tips.	General isolation and characterisation of micro-organisms of clinical significance, including antibiotic resistance: Particularly wound swabs, ENT swabs, ophthalmic specimens, fluids, tissues and genital swabs	<u>Manual</u> culture and microscopy (not for genital swabs) SOP-MC-BAC-030/039 SOP-MC-BAC-D-3/D-8/D-9/D-40/
Cerebrospinal fluid (CSF)	Cell enumeration and detection of gram positive and negative bacteria	<u>Manual</u> culture and cell count SOP-MC-BAC-003
Urine	General isolation and characterisation of micro-organisms of clinical significance	<u>Automated</u> culture using MAST Urisystem: SOP-MC-BAC-D-038 <u>Automated</u> microscopy using UF5000: SOP-MC-BAC-D-039 <u>Manual method</u> by microscopy and culture – SOP-MC-BAC-032
Faeces	General isolation and characterisation of gastrointestinal pathogens of clinical significance	Conventional culture using SOP-MC-BAC-029
Faeces, urine	Detection and identification of ova, cysts and parasites	By microscopy using SOP-MC-BAC-D-042



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## Schedule of Accreditation

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### United Kingdom Accreditation Service

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

### Barnsley Hospital NHS Foundation Trust

Issue No: 008 Issue date: 10 June 2021

Testing performed at main address only

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
HUMAN BODY TISSUE/FLUIDS	<u>Microbiology examination activities for the purpose of clinical diagnosis</u> (cont'd)	Documented in-house methods and manufacturer's operating instructions for as specified to support clinical diagnosis:
	Identification and sensitivity of various bacterial and yeast isolates to antibiotics	<u>Manual</u> conventional methods and microscopy using: SOP-MC-BAC-012,019,020,024 <u>Automated</u> Vitek identification cards using MALDI-TOF technology SOP-MC-BAC-D-7
Bacterial isolates from various human samples	Identification of Staphylococcal isolates	Prolex staph latex SOP-MC-BAC-025
Bacterial isolates from various human samples	Identification of <i>Streptococcus pneumoniae</i>	Manual test Latex agglutination Oxoid dry-spot kit SOP-MC-BAC-D-047
Bacterial isolates from various human samples	Serological identification of groups A, B, C, D, F and G of the Lancefield groups of Streptococci grown on agar plates	Pro-Lab Strep grouping kit SOP-MC-BAC-018
Bacterial isolates from various human samples	Identification of Enterobacteriaceae and other non-fastidious gram negative bacteria; identification of Corynebacteria and coryne-like organisms; identification of most Neisseria (including Neisseria gonorrhoeae) and Haemophilus spp	API 20E, API Coryne, API NH and slide preparation SOP-MC-BAC-050 SOP-MC-BAC-D-068
Bacterial isolates from various human samples	Detection of Salmonella polyvalent 'O' (PSO) and Salmonella polyvalent 'H' (PSH)	Salmonella agglutination sera SOP-MC-BAC-026
Faeces	Detection of : Cl.difficile antigen (GDH)  Rotavirus and Adenovirus antigens	Qualitative immunochromatographic assay – Lateral Flow Tests SOP-MC-BAC-D-037 SOP-MC-VIR-D-32



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HUMAN BODY TISSUE/FLUIDS	<u>Microbiology examination activities for the purpose of clinical diagnosis</u>	Documented in-house methods and manufacturer's operating instructions for as specified to support clinical diagnosis:
Faeces	Detection of: Norovirus	Manual test (lateral flow) SOP-MC-VIR-D-48
Nasopharyngeal aspirate	Detection of: RSV antigen	Using Binax kits (lateral flow): SOP-MC-VIR-025
Urine	<u>Legionella antigen</u> <u>Strep.pneumoniae antigen</u>	Sofia analyser (Fluorescent EIA) SOP-MC-VIR-019 SOP-MC-VIR-024
Nasal and groin swabs and swabs / specimens from other body sites	Detection of MRSA and MSSA	<u>Manual</u> culture using chromogenic agar plates SOP-MC-BAC-040
Bacterial isolates from various human samples	Determination of sensitivity of various bacterial isolates to antibiotics	Disc testing using disc and E-testin line with EUCAST methods SOP-MC-BAC-033
Bacterial isolates from various human samples	Determination of identification and sensitivity of various bacterial and yeast isolates to antibiotics	<u>Automated</u> MIC using Vitek SOP-MC-BAC-D-7
	<u>Serology examination activities for the purpose of clinical diagnosis</u>	** Documented in house methods to met 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'
Blood	**Detection of HIV antibodies **Detection of Syphilis antibodies **Detection of Hepatitis Bs Ag, **Detection of Hep B antibodies Detection of Hepatitis A IgM Detection of Hepatitis C IgG **Detection of Hep B core antibodies	Blood Sciences Dept (Tracked system): Siemens – Centaur ( <u>Automated</u> EIA method) SOP-MC-VIR-D-7



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<p>HUMAN BODY TISSUE/FLUIDS</p> <p>Blood</p> <p>Faeces</p>	<p><u>Serology examination activities for the purpose of clinical diagnosis</u></p> <p>Detection of Procalcitonin            Detection of VZ IgG            Detection of Hepatitis A IgG            Detection of Hepatitis B core antibodies            Detection of hepatitis BsAg            Detection of Hepatitis C antibodies</p> <p>Detection of C.difficile toxin</p>	<p>Documented in-house methods and manufacturer's operating instructions for as specified to support clinical diagnosis:</p> <p>Mini Vidas  <u>Automated</u> Fluorescent EIA SOP-MC-VIR-D-5            SOP-MC-VIR-D-11,15,16,25,30,31,36,44</p> <p>Mini Vidas  <u>Automated</u> Fluorescent EIA SOP-MC-VIR-D-1</p>
END		