


# Schedule of Accreditation

issued by

## United Kingdom Accreditation Service

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

 <b>UKAS</b> MEDICAL <b>8448</b>  Accredited to ISO 15189:2012	<b>Barnsley Hospital NHS Foundation Trust</b>	
	Issue No: 014    Issue date: 27 November 2023	
	Department of Pathology Barnsley Hospital Gawber Road Barnsley S75 2EP United Kingdom	Contact: Natalie Holmes Tel: +44 (0) 1226 432289 Fax: +44 (0) 1226 432627 E-Mail: <a href="mailto:rgh-tr.brilsqualityteam@nhs.net">rgh-tr.brilsqualityteam@nhs.net</a> Website: <a href="http://www.barnsleyhospital.nhs.uk/pathology">www.barnsleyhospital.nhs.uk/pathology</a>
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### Laboratory locations:

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

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

Location Details	Activity	Location Code
Mortuary Barnsley Hospital Gawber Road Barnsley S75 2EP	Mortuary Services (body receipt, storage, and release)	D



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**Issue No:** 014 **Issue date:** 27 November 2023

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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:  Siemens Atellica CH SOP SOP-CB-D-2 by the following methods:
Serum Urine	Albumin	BCG Immunoturbidimetric
Serum	ALP	Enzymatic
Serum	ALT	Enzymatic
Urine	Amphetamine	EMIT
Serum, Urine	Amylase	Enzymatic
Serum	AST	Enzymatic
Urine	Benzodiazepine	EMIT
Serum, Urine	Calcium	Arsenazo III
Urine	Cannabinoids	EMIT
Serum	Carbamazepine	PETINIA
Serum	Cholesterol	Cholesterol Esterase
Serum	Creatine kinase	Enzymatic
Serum, Urine	Chloride	Indirect ISE
Urine	Cocaine	EMIT
Serum	CRP	Latex Agglutination
Serum	Direct Bilirubin	End Point Oxidation
Serum	HDL Cholesterol	Trinder Reaction
Serum Urine	Creatinine	Enzymatic Jaffe



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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:  Siemens Atellica CH SOP SOP-CB-D-2 by the following methods:
Serum, Urine	Ethanol	Enzymatic
Serum	Gentamicin	PETINIA
Serum	GGT	Enzymatic
Serum, Plasma (Lithium heparinized, Potassium EDTA, Sodium fluoride/ Potassium oxalate)	Glucose	Hexokinase
Serum	IgA	Immunoturbidimetric
Serum	IgG	Immunoturbidimetric
Serum	IgM	Immunoturbidimetric
Serum	Iron	Ferrozine
Serum	LDH	Enzymatic
Serum	Lithium	Colorimetric End Point
Serum, Urine	Magnesium	Xylidyl Blue
Urine	Methadone	EMIT
Urine	Opiates	EMIT
Serum	Paracetamol	Enzymatic
Serum	Phenytoin	PETINIA
Serum, Urine	Phosphate	Molybdate
Serum, Urine	Potassium	Indirect ISE
Serum	Rheumatoid Factor	Immunoturbidimetric



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<p>HUMAN BODY FLUIDS</p> <p>Serum</p> <p>Serum, Urine</p> <p>Serum</p> <p>Serum</p> <p>Serum Urine, CSF</p> <p>Serum</p> <p>Serum</p> <p>Serum, Urine</p> <p>Serum, Urine</p> <p>Serum</p>	<p><u>Biochemistry examination activities for the purposes of clinical diagnosis:</u></p> <p>Salicylate</p> <p>Sodium</p> <p>Theophylline</p> <p>Total Bilirubin</p> <p>Total Protein</p> <p>Transferrin</p> <p>Triglycerides</p> <p>Uric Acid</p> <p>Urea</p> <p>Valproate</p>	<p>Documented in-house methods and manufacturer's operating instructions as specified to support clinical diagnosis:</p> <p>Siemens Atellica CH SOP SOP-CB-D-2 by the following methods:</p> <p>Enzymatic</p> <p>Indirect ISE</p> <p>PETINIA</p> <p>Vanadate Oxidation</p> <p>Biuret Pyrogallol Red</p> <p>Immunoturbidimetric</p> <p>Enzymatic</p> <p>Enzymatic</p> <p>Enzymatic</p> <p>PETINIA</p>



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<p>HUMAN BODY FLUIDS</p> <p>Serum</p> <p>Serum</p> <p>Serum</p> <p>Serum</p> <p>Serum</p> <p>Serum</p> <p>Serum</p> <p>Serum</p> <p>Serum</p> <p>Serum</p> <p>Serum</p> <p>Serum</p> <p>Serum</p> <p>Serum</p> <p>Serum</p> <p>Serum</p> <p>Serum</p> <p>Serum</p> <p>Serum</p> <p>Serum</p> <p>Serum</p> <p>Serum</p> <p>Serum</p> <p>Plasma (Lithium heparinized, Potassium EDTA, Sodium fluoride/ Potassium oxalate)</p> <p>Serum</p> <p>Serum</p> <p>Serum</p> <p>Serum</p>	<p><u>Biochemistry examination activities for the purposes of clinical diagnosis:</u></p> <p>AFP</p> <p>Anti-CCP Abs</p> <p>B12</p> <p>CA 125</p> <p>CA 199</p> <p>CEA</p> <p>Cortisol</p> <p>Digoxin</p> <p>Ferritin</p> <p>Folate</p> <p>Free T3</p> <p>Free T4</p> <p>FSH</p> <p>LH</p> <p>NT-ProBNP</p> <p>Oestradiol</p> <p>Progesterone</p> <p>Prolactin</p> <p>PSA</p>	<p>Documented in-house methods and manufacturer's operating instructions as specified to support clinical diagnosis:</p> <p>Siemens Atellica IM SOP SOP-CB-D-2 by immunoassay</p>



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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:  Siemens Atellica IM SOP SOP-CB-D-2 by immunoassay
Serum	PTH	
Serum	SHBG	
Serum	Testosterone	
Serum	Total HCG	
Serum	Troponin I	
Serum	TSH	
Serum	Vit D	
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	Werfen IL GEM 5000 Cartridge blood gas using electrochemical sensors SOP-CB-POCT-D-23



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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:
Whole Blood,	Lactate	Werfen IL GEM 5000 Cartridge
Whole Blood	pH	blood gas using electrochemical sensors SOP-CB-POCT-D-23
Whole Blood (EDTA)	HbA1c	TOSOH G11 HPLC SOP- CB-RC-D-28
Serum, Urine	Osmolality	Advanced Instruments Osmo1 (freezing point depression) SOP CB MAN 006
Serum	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	



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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:
	Calculation of:	Calculated Tests using Clinisys Winpath
Urine	24 hour sodium	
Urine	24 hour potassium	
Urine	24 hour chloride	
Urine	24 hour urea	
Urine	24 hour creatinine	
Urine	24 hour calcium	
Urine	Calcium: creatinine ratio	
Urine	Calcium excretion	
Urine	Calcium clearance	
Urine	24 hour phosphate	
Urine	24 hour urate	
Urine	24 hour magnesium	
Urine	24 hour protein	
Urine	Protein: creatinine ratio	
Urine	Urate: creatinine ratio	
Serum	Macroprolactin recovery	
Serum	Estimated Glomerular Filtration Rate (eGFR)	
Serum	Acute Kidney Injury (AKI)	





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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:
	Calculation of:	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 Immunoturbidometric
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>Apacor Carestart Malaria Kit pH 7.2 Giemsa stain SOP-HAE-ROU-015</p> <p>SOP-HAE-COAG-D-5 Microgen Tube Test (quantitative method using sodium dithionite)</p> <p>Stago STA-R Max SOP-HAE-COAG-D-2</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	<p>Manual Blood Grouping by antigen detection:</p> <p>ABO blood groups.</p> <p>Rhesus group antigens: C, c, D, E, e.</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>Phenotyping by antigen detection. Antigens include: K, Fy(a), Fy(b), S, s, M, N, Jk(a), Jk(b).</p> <p>Cross matching (compatibility testing of patient's plasma with donor red cells)</p>	<p>Manual procedures using Bio-Rad card technology and Banjo ID-Reader Reader using protocols:</p> <p>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</p> <p>SOP-HAE-BB-021 – Selection and Issue of products for Paeds and Neonates</p> <p>SOP-HAE-BB-D-47 Use of the Banjo ID-Reader</p>
Blood	Quantification of fetal-maternal hemorrhage (Kleihauer Screen)	<p>Guest Medical Kleihauer kit by acid elution followed by microscopy using protocol:</p> <p>SOP-HAE-BB-001 – Estimation of FMH by Acid Elution</p>
Blood	Detection of monospecific antiglobulins (Monospecific DAT – manual)	<p>Bio-Rad monospecific direct antiglobulin card technology using protocol:</p> <p>SOP-HAE-BB-022 – Direct Antiglobulin Test</p> <p>SOP-HAE-BB-D-47 Use of the Banjo ID-Reader</p>





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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 Automated 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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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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Faeces	Detection of: Norovirus	Manual test (lateral flow) SOP-MC-VIR-D-48
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
Nasal and / or throat swabs in VTM or UTM	Detection of:  Influenza A  Influenza A, subtype H1N1/pdm09  Influenza A subtype H1  Influenza A subtype H3  Influenza B  Coronavirus 229E  Coronavirus HKU1	QIAGEN QIAstat analyser using QIAstat-Dx Respiratory SARS-CoV-2 Panel by PCR SOP-MC-VIR-D-54





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Nasal and / or throat swabs in VTM or UTM	Detection of:  Coronavirus NL63 Coronavirus OC43 Parainfluenza Virus 1 Parainfluenza Virus 2 Parainfluenza Virus 3 Parainfluenza Virus 4 Respiratory Syncytial Virus A/B Human Metapneumovirus A/B Adenovirus Bocavirus Rhinovirus/Enterovirus (not differentiated) Legionella pneumophila Bordetella pertussis Mycoplasma pneumoniae SARS-CoV-2 RNA (COVID-19) E and Orf1ab gene	QIAGEN QIAstat analyser using QIAstat-Dx Respiratory SARS-CoV-2 Panel by PCR SOP-MC-VIR-D-54
Nose and throat swabs in VTM	SARS-CoV2 RNA Orf1ab and nucleoprotein	SAMBA II SARS-CoV2 Rapid PCR test (SOP –MC-VIR –D -61





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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>Rapid cassette EIA test Biopharm RIDA®QUICK Clostridium difficile Toxin A/B</p>
END		