


# 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 8918</p> <p>Accredited to ISO 15189:2022</p>	<h3>Swansea Bay University Health Board</h3> <p>Issue No: 013    Issue date: 02 October 2025</p>	
	<p><b>ABM University Health Board</b> Headquarters 1 Talbot Gateway Port Talbot SA12 7BR</p>	<p><b>Contact: Dr Adam Cookson</b> Tel: +44 (0) 1656 752330 E-Mail: Adam.Cookson@wales.nhs.uk Website: www.abm.wales.nhs.uk</p>
<p><b>Testing performed by the Organisation at the locations specified below</b></p>		

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

#### Laboratory locations:

Location details	Activity	Location code
<p>Pathology Department Morrison Hospital Heol Maes Eglwys Morrison Swansea SA6 6NL</p> <p><b>Local contact</b> Dr Andar Gunneberg</p>	<p>Clinical Biochemistry Haematology Immunology Blood Transfusion Phlebotomy (LMS9437, LMS9439, LMS9440) Management of two lab-based blood fridges</p>	M
<p>Pathology Department Princess of Wales Hospital Coity Road Bridgend CF31 1RQ</p> <p><b>Local contact</b> Dr Andar Gunneberg</p>	<p>Clinical Biochemistry Haematology Toxicology Blood Transfusion Phlebotomy (LMS9437, LMS9439, LMS9440) Management of two lab-based blood fridges</p>	B
<p>Pathology department Singleton Hospital Sketty Lane Swansea SA2 8QA</p> <p><b>Local contact</b> Dr Andar Gunneberg</p>	<p>Clinical Biochemistry Haematology Blood Transfusion Phlebotomy (LMS9437, LMS9439, LMS9440) Management of two lab-based blood fridges</p>	S



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

Location details	Activity	Location code
Sancta Maria Hospital Lamberts Road Swansea SA1 8FD  <b>Local contact</b> Laboratory: Ms Lorraine Samuel Morrison Hospital	Blood storage, single fridge	SM
Pathology Department Neath Port Talbot Hospital Baglan way Port Talbot SA12 7BX  <b>Local contact</b> Dr Andar Gunneberg	Specimen reception Phlebotomy (LMS9437, LMS9439, LMS9440) Management of single lab-based blood fridge	NPT



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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 examinations for the purpose of clinical diagnosis</u>	Roche Cobas ISE, c702, e602, e801, c501 Using manufacturer's instructions and documented in-house procedure LMS4027	
Venous Whole Blood: Serum, plasma	Quantification of:  Alpha fetoprotein Ammonia Angiotensin Converting Enzyme Albumin Alkaline Phosphatase Alanine Transaminase Amylase Aspartate Transaminase Vitamin B12  Human Chorionic Gonadotropin Bile Acids NT-pro BNP Tumour Marker CA-125 Tumour Marker CA-153 Tumour Marker CA-199 Complement Screen C3 Complement Screen C4 Calcium Carcinoembryonic Antigen Cholesterol Creatine Kinase Chloride Bicarbonate Cortisol Creatinine C-Reactive Protein Direct Bilirubin Digoxin Carbamazepine Phenytoin Phenobarbitone  Amikacin Creatine Oestradiol	Sandwich Enzymatic Enzymatic rate A  Colourimetric 2 point end Colourimetric rate A Enzymatic rate A Enzymatic rate A Enzymatic rate A Enzymatic rate A Competitive  Sandwich  Enzymatic rate A Sandwich Sandwich Sandwich Sandwich Immunoturbidmetric 2 point end Immunoturbidmetric 2 point end UV 2 point end Sandwich Enzymatic rate A UV rate A ISE Enzymatic 2 point end Competitive Kinetic rate A Immunoturbidmetric 2 point end Colourimetric 2 point end Competitive Fluorescence polarization Fluorescence polarization Fluorescence polarization  Fluorescence polarization Fluorescence polarization Competitive	M M, B, S M  M, B, S M, B, S M, B, S M, B, S M M  M, B, S M, B, S M M M M M M, B, S M M M, B M, B, S M, B, S M, B M, B, S M, B, S M, B, S M, B, S M, B, S M, B B B B  B B M





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HUMAN BODY FLUIDS (cont'd)	<u>Biochemistry examinations for the purpose of clinical diagnosis (cont'd)</u>	Roche Cobas ISE, c702, e602, e801, c501 Using manufacturer's instructions and documented in-house procedure LMS4027	
Venous Whole Blood: Serum, Plasma (cont'd)	Quantification of:  Troponin T Total Protein Anti Thyroid Peroxidase Transferrin Triglyceride Thyroid Stimulating Hormone Urea Uric Acid Methotrexate Vitamin D Vancomycin	Sandwich Colourimetric 2 point end Competitive Immunoturbidmetric 2 point end Enzymatic 1 point Sandwich Kinetic rate A Enzymatic 2 point end Enzymatic RCM Competitive Fluorescence polarisation	M, B, S M, B, S M M M M M M, B, S M, B, S S M M, B, S
Urine	Quantification of the following:  Calcium Chloride Creatinine Potassium Magnesium Microalbumin Sodium Phosphate Protein Urea Uric Acid Faecal Calprotectin	Roche Cobas ISE, c702, e602, e801, c501 Using manufacturer's instructions and documented in-house procedure LMS4027  UV 2 point end ISE Kinetic rate A ISE Colourimetric 2 point end Immunoturbidmetric ISE UV 2 point end Turbidmetric 2 point end Kinetic rate A Enzymatic rate A PETIA (LMS-A-SOP Faecal Calprotectin Extraction)	  M M M, B, S M, B, S M M M, B, S M M, S, B M M M M
Faeces		Turbidmetric 2 point end Colourimetric 2 point end (Lactate>Pyruvate) Enzymatic 2 point end	M, B M, B
CSF	Protein		M, B
CSF	Lactate		M, B
CSF	Glucose		M, B



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HUMAN BODY FLUIDS (cont'd)	<u>Biochemistry examinations for the purpose of clinical diagnosis (cont'd)</u>	Using manufacturer's instructions and documented in-house procedures	B
Urine	Creatinine	Kinetic rate A	
Plasma/serum	AKI Alert	By calculation	
Urine	Albumin:creatinine ratio	By calculation	
Plasma/serum	Calcium (adjusted)	By calculation	
24hr urine	Calcium output	By calculation	
Urine	Calcium:creatinine ratio	By calculation	
Plasma/Serum/Urine	Calcium creatinine clearance	By calculation	
Serum	Cholesterol:HDL ratio	By calculation	
24hr urine, serum/plasma	Creatinine clearance	By calculation	
24hr Urine	Creatinine Output	By calculation	
Serum/Plasma	Estimated GFR	By calculation	
Serum	Free Androgen Index	By calculation	
Serum/plasma	Globulin	By calculation	
Serum/plasma	Liver Plan AST/ALT Ratio	By calculation	
Serum	LDL Cholesterol	By calculation	
24hr urine	Magnesium output	By calculation	
Urine	Magnesium:creatinine ratio	By calculation	
Serum	Non HDL Cholesterol	By calculation	
24hr urine	Phosphate output	By calculation	
Urine	Phosphate:creatinine ratio	By calculation	
Urine	Porphyrin:creatinine ratio	By calculation	
24hr urine	Potassium output	By calculation	
24hr urine	Protein output	By calculation	
Urine	Protein:creatinine ratio	By calculation	
Serum/plasma	Serum ascites albumin gradient	By calculation	
24hr urine	Sodium output	By calculation	
Serum	Transferrin saturation	By calculation	
Urine	Urate output	By calculation	
Urine	Urate:creatinine ratio	By calculation	
24hr urine	Urea Output	By calculation	
Serum	Kappa/lambda ratio	By calculation	



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HUMAN BODY FLUIDS (cont'd)	<u>Biochemistry examinations for the purpose of clinical diagnosis (cont'd)</u>	Using manufacturer's instructions and documented in-house procedures	
CSF	Xanthochromia	Uvikon XS spectrophotometer using a spectrophotometer technique  SOP LMS802	M, B
Sweat	Sweat chloride	Sherwood M926S chloride meter using titrimetric analysis  SOP LMS4053	M
Sweat	Sample Collection	Sweat collection using the Macroduct Advanced Sweat Collection System	M, B
EDTA whole blood	HbA1c	Sebia Capillarys 3 using an capillary electrophoresis technique  SOP LMS2015	M
EDTA whole blood	Haemoglobin A1c Boronate Affinity	Alere Afinion 2 Analyser using a boronate affinity technique  SOP LMS1006  Sebia Hydrasys 2 using electrophoresis and immunofixation techniques	M
Serum	Identification of paraprotein bands	SOP LMS1959	M
Serum	Alpha-1-Antitrypsin phenotyping	Isoelectrofocusing - SOP LMS915	M



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HUMAN BODY FLUIDS (cont'd)	<u>Biochemistry examinations for the purpose of clinical diagnosis (cont'd)</u>	Using manufacturer's instructions and documented in-house procedures	
Whole blood	Methaemoglobin	Gem 4000 Using a spectrometric technique  SOP LMS4113	
	Carboxyhaemoglobin		M, B
	pH		M, B
	pCO2		M, B
	pO2		M, B
	Total haemoglobin		M, B
	Oxyhaemoglobin		M, B
	sO2		M, B
	TCO2		M, B
	BEecf		M, B
	BE (B)		M, B
	HCO3 (c)		M, B
	HCO3 std		M, B
	Hct		M, B
	Sodium		B
	Potassium		B
	Chloride		B
	Glucose		B
	Ionised calcium		B
	Lactate		B
Serum, plasma, urine	Osmolality	Advanced instruments osmometer Osmo1 using a freezing point depression technique  SOP LMS4114	M, S, B
Urine	Total porphyrin screen	Using Uvikon XS Spectrophotometer  SOP LMS4118	B



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HUMAN BODY FLUIDS (cont'd)	<u>Biochemistry examinations for the purpose of clinical diagnosis (cont'd)</u>	Using manufacturer's instructions and documented in-house procedures	
	Qualitative Porphobilinogen	Manual method performed using Ehrlich's reagent	B
Urine	pH	Hanna pH checker SOP LMS4051	B
	pH	Hanna pH checker SOP LMS8423	M



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HUMAN BODY FLUIDS (cont'd)	<u>Toxicology examinations for the purpose of clinical diagnosis</u>	Using manufacturer's instructions and documented in-house procedures	
Urine	Drug screen confirmation:  Amphetamine group substances Amphetamine L/D Ratio Barbiturates Cocaine Methadone/Methadone metabolite Opiates (including MAM) Psychoactive drug screen: Mephedrone, Ketamine, Phencyclidine Tramadol	Thermo ISQLT analyser using a GC-MS technique  SOP LMS4110	B
Urine	Buprenorphine  Drug Screening:	Cobas 501 using an enzyme immunoassay technique  SOP LMS4111  Roche Cobas c501 (As part of ISE, c702, e602, e801, c501 line within Biochemistry) LMS-A-SOP Drugs of Abuse Screen	B
	Amphetamine	KIMS	B
	Barbiturate	KIMS	B
	Benzodiazepine	KIMS	B
	Cannabis	KIMS	B
	Cocaine	KIMS	B
	Methadone/Methadone	KIMS	B
	Metabolites		
	Opiates	KIMS	B



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HUMAN BODY FLUIDS (cont'd)	<u>Immunological examination for the purpose of clinical diagnosis</u>	Using manufacturer's instructions and documented in-house procedures	
Serum	Autoimmunity detection of:  Anti Nuclear Antibodies (ANA) Liver Autoantibodies (LIVA) including GPC antibodies Anti Neutrophil Cytoplasmic Antibodies (ANCA) Anti-ds DNA Crithidia luciliae	Helios analyser using the Indirect Immunofluorescence method  SOP LMS3408	M
Serum	Quantification of specific IgE to:  House dust mite Cat Horse Dog Caged bird feathers Egg white Cow's milk Cod Wheat Sesame seed Pea Peanut Soya Hazel nut Brazil nut Almond Crab Shrimp Tomato Orange Coconut Blue mussel Tuna Salmon Strawberry Apple Egg yolk	Immunocap 200 using a Fluorenzyme Immunoassay  SOP LMS4052	M



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HUMAN BODY FLUIDS (cont'd)	<u>Immunological examination for the purpose of clinical diagnosis (cont'd)</u>	Using manufacturer's instructions and documented in-house procedures	M
Serum (cont'd)	Quantification of specific IgE to: (cont'd)	Immunocap 200 using a Fluorezyme Immunoassay  SOP LMS4052	
	Kiwi fruit Celery Banana Pecan Cashew nut Pistachio nut Lentil Walnut Chickpea Rape seed Macadamia nut Mixed grass pollen Latex Sunflower seed Aspergillus Mixed moulds Mixed tree pollen Birch Pollen Cacao Casein Cod Gluten Guinea Pig Hamster Mugwort Ovalbumin Pineapple Pinenut Rabbit Epithelium Ragweed Sesame Seed Sweet Pepper (paprika) Wheat White Bean		



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HUMAN BODY FLUIDS (cont'd)	<u>Immunological examination for the purpose of clinical diagnosis (cont'd)</u>	Using manufacturer's instructions and documented in-house procedures	
Serum	Detection of:  Free light chains	Binding site Optilite using turbidimetry  SOP LMS4054	M
	Beta-2-Microglobulin	LMS-A-SOP B2M	M
	Alpha-1-Antitrypsin	LMS-A-SOP AAT	M
Serum	Detection of:  Intrinsic factor antibody Anti-transglutaminase antibodies (TTG)-IgA	Using ELISA on DS2  SOP LMS10317	M
Serum	Detection of:  Anti-ds DNA Anti cardiolipin antibodies Cyclic Citrullinated Peptide (CCP) antibody Anti-ENA screen Anti-ENA identification: Ro52 Ro60 SSB SCL70 RNP SM Jo1 Anti-beta-2-glycoproteins MPO PR3 Glomerular basement membrane Anti-transglutaminase antibodies (TTG)-IgG	Using chemiluminescence on Werfen Bioflash  SOP LMS10264	



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HUMAN BODY FLUIDS (cont'd)	<u>Immunological examination for the purpose of clinical diagnosis (cont'd)</u>	Using manufacturer's instructions and documented in-house procedures	
Serum	Myositis screen Scleroderma 70 screen Liver autoantibodies extended profile	Using EuroImmun Euroimmune Blot Master Automated Blot Preparation Instrument  SOP LMS104256	M
	<u>Flow cytometry examination for the purpose of clinical diagnosis</u>	Using manufacturer's instructions and documented in-house procedures for Becton Dickenson FACSLyric using Flow Cytometry.	
Peripheral Blood, Bone Marrow, CSF and other Body Fluids	Diagnosis and monitoring of haematological malignancies to include Acute Leukaemia, Lymphoproliferative disorders (T&B)	SOP LMS3381	S
Venous Whole Blood: EDTA	CD34 +ve Stem Cell Enumeration	SOP LMS4049	S
Bone Marrow	Diagnosis and monitoring of Paroxysmal Nocturnal Haemoglobinuria (red and white cells)	SOP LMS3379	S
	Leukaemia Immunophenotyping	SOP LMS3381	S
		Using manufacturer's instructions and documented in-house procedures for Becton Dickenson FACSLyric using Flow Cytometry, sample preparation by FACSDuet.	
Venous Whole Blood: EDTA	Immune monitoring:  CD3 CD4 CD8 CD16+56 CD19% Absolute Counts	SOP LMS105845 SOP LMS105829	S



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HUMAN BODY FLUIDS (cont'd)	<u>Haematological examination for the purpose of clinical diagnosis</u>	Using manufacturer's instructions and documented in-house procedures	
Venous whole blood EDTA	Full Blood Count:  Haemoglobin White Blood Cell Count Red Blood Cell Count Platelet Count Haematocrit Mean Cell Volume\ Mean Cell Haemoglobin Mean Cell Haemoglobin Concentration Neutrophil Count Lymphocyte Count Monocyte Count Eosinophil Count Basophil Count Reticulocyte Count Nucleated Red Blood Cell Count	Sysmex XN3100 using hydrodynamic focussing DC detection, SLS haemoglobinometry and fluorescence flow cytometry SOP LMS4061	S, B, M
Venous whole blood: citrated	Erythrocyte Sedimentation Rate (ESR)	Using Menarini Vesmatic by Red cell sedimentation measurement  SOP LMS4059  Using Mini Cube by opt-electronic sensors  SOP LMS 108580	M, B   M, B



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<p>HUMAN BODY FLUIDS (cont'd)</p> <p>Blood films</p> <p>Blood films</p> <p>Blood Bone marrow , CSF and other body fluids</p>	<p><u>Haematological examination for the purpose of clinical diagnosis (cont'd)</u></p> <p>Reporting of normal and abnormal morphologies, including White Blood Cell Differential</p> <p>Reporting of normal and abnormal morphologies, including White Blood Cell Differential</p> <p>Diagnosis and monitoring of haematological malignancy and bone marrow failure.</p>	<p>Using manufacturer's instructions and documented in-house procedures</p> <p>Automated Sysmex SP10 film spreader and stainer Microscopic examination of stained slides May-Grunwald Giemsa stainer SOP LMS4065</p> <p>Automated Sysmex SP50 film spreader and stainer Microscopic examination of stained slides May-Grunwald Giemsa stainer SOP LMS4065</p> <p>Automated method using Sysmex SP50 for May-Grunwald Giemsa</p> <p>Microscopic examination of stained slides</p> <p>SOP LMS4065</p>	<p>M, B</p> <p>S</p> <p>S</p>



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HUMAN BODY FLUIDS (cont'd)	<u>Haematological examination for the purpose of clinical diagnosis (cont'd)</u>	Using manufacturer's instructions and documented in-house procedures	
Venous Whole Blood: EDTA, Plasma or Serum	Screen for IM heterophile antibodies	Using Clearview IM immunoassay kit  SOP LMS1160	M, B, S
Venous whole blood: EDTA	Screening for the detection of <i>Plasmodium falciparum</i> and <i>Plasmodium</i> spp. (Including: <ul style="list-style-type: none"> <li>• <i>Plasmodium ovale</i></li> <li>• <i>Plasmodium falciparum</i>,</li> <li>• <i>Plasmodium malariae</i></li> <li>• <i>Plasmodium vivax</i>)</li> </ul>	CareUS Rapydtest Malaria antigen kit  LMS-A-SOP Malaria Screening using the CareUS RepydTest Kit	M, B, S
	Detection and Identification of <i>Plasmodium</i> species: <ul style="list-style-type: none"> <li>• <i>P.falciparum</i></li> <li>• <i>P.vivax</i></li> <li>• <i>P.ovale</i></li> <li>• <i>P.malariae</i></li> <li>• <i>P. knowlesi</i></li> </ul>	Using manual microscopy, Giemsa stained thin films, and Field's stained thick films using Sigma Aldrich stain  LMS-A-SOP Staining of thick and Thin Films for Malaria Parasite Identification v9	M, B, S
Venous whole blood: EDTA	Screening to detect the presence of Haemoglobin-S	Clin-Tech Sickle Cell Kit  SOP LMS4084	M, B, S



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HUMAN BODY FLUIDS (cont'd)	<u>Haematological examination for the purpose of clinical diagnosis (cont'd)</u>	Using manufacturer's instructions and documented in-house procedures	
Venous whole blood: EDTA	G6PD screening test	Trinity Biotech G6PD Screening Kit using a modified Beutler method  SOP LMS4063	M
Venous Whole Blood: EDTA, Marrow	Detection of iron deposits	Manual Perls stain and examination by microscopy  SOP LMS1149	S
Venous Blood: Citrated Plasma	Routine coagulation tests:  Prothrombin Time / INR Activated partial Thromboplastin Time (APTT) Clauss Fibrinogen assay PT & APTT Correction Tests Thrombin Clotting Time (TCT) INR with Thromborel S D-Dimer	Sysmex CN3000  Using photo-optical clotting detection, immunoturbidimetric, and chromogenic methods  SOP LMS111008	M, B, and S
Venous Blood: Citrated Plasma	Clotting tests:  Prothrombin Time APTT	Semi-automated clot detection method using Hart analyser  SOP LMS101944	M, B, S
Venous Whole Blood: EDTA	Confirmation and identification of abnormal haemoglobins	Using Sebia hydrasys 2 gel electrophoresis SOP LMS103803	M



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HUMAN BODY FLUIDS (cont'd)	<u>Haematological examination for the purpose of clinical diagnosis (cont'd)</u>	Using manufacturer's instructions and documented in-house procedures	
Venous Blood: Citrated Plasma	Special Coagulation Assays:  Factor Assays: FII, V, VII, X FVIII, IX, XI, XII Inhibitor assays (Bethesda) FXIII von Willebrand Factor Antigen Anti Factor Xa assays: Danaparoid Low Molecular Weight Heparin Unfractionated Heparin, Rivaroxaban, Apixaban Dabigatran assay	Performed on Sysmex CS5100 Using photo optical, immunoturbidimetric, and chromogenic methods  SOP LMS20 SOP LMS19 SOP LMS4127 SOP LMS474 SOP LMS4128 SOP LMS16  SOP LMS28	M
Venous Blood: Citrated Plasma	Protein C Activity  Antithrombin activity  Free Protein S Antigen  Lupus Anticoagulant Screen	Performed on Sysmex CS5100 Using photo optical, immunoturbidimetric, and chromogenic methods  Using chromogenic method SOP LMS4129  Using chromogenic method SOP LMS4129  Using immunoturbidimetric method SOP LMS4129  Using clotting method SOP LMS482	M
Venous whole blood: EDTA	Haemoglobinopathy screening for:  Haemoglobin A Haemoglobin A2 Haemoglobin F	Using Sebia Capillarys 3 Flex capillary electrophoresis  SOP LMS10099	M



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

**Swansea Bay University Health Board**  
**Issue No: 013 Issue date: 02 October 2025**

**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 FLUIDS (cont'd)	<u>Blood Transfusion examination activities for the purpose of clinical diagnosis</u>	Using manufacturer's instructions and documented in-house procedures	
Venous Whole Blood: EDTA	Blood Grouping: A, B and O groups Rhesus group antigens C, c, D, E and e Kell antigen status Rhesus negative screen	Automated method using Ortho Vision. Using micro columns and direct anti-globulin technique  SOP LMS104153	M, B, S
Venous Whole Blood: EDTA	Blood Grouping: A, B and O groups Rhesus group antigens C, c, D, E and e Kell antigen status Rhesus negative screen	Manual process using indirect anti-globulin using Biovue cassettes and/or manual tube method  SOP LMS235 and SOP LMS780	
Venous Whole Blood: EDTA	Detection and identification of the following antibodies using IgG and Enzyme panels: Rhesus blood group antibodies - D, C, E, c, e, f Cw  Kell blood group antibody - K  Duffy blood group antibodies - Fy(a), Fy(b)  Kidd blood group antibodies - Jk(a), Jk(b)  Lewis blood group antibodies - Le(a), Le(b)  MNS blood group antibodies - S, s, M, N, P and P1  Lutheran blood group antibodies - Lu(a), Lu(b)	Automated detection performed on Ortho Vision using micro columns and direct anti-globulin technique  SOP LMS958  Manual method using Biovue cassettes  SOP LMS780	M, B, S



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**Schedule of Accreditation**  
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HUMAN BODY FLUIDS (cont'd)	<u>Blood Transfusion examination activities for the purpose of clinical diagnosis</u> (cont'd)	Using manufacturer's instructions and documented in-house procedures	
Venous Whole Blood: EDTA	Compatibility testing of patient's plasma with donor cells	Automated method using Ortho Vision using micro columns and indirect anti-globulin technique  Manual method using Biovue cassettes  SOP LMS999	M, B, S
Venous Whole Blood: EDTA	Direct Antiglobulin Test (DAT): Monoclonal	Automated method using Ortho Vision using micro columns and direct anti-globulin technique  Manual method using Biovue cassettes  SOP LMS4106	M, B, S
Venous Whole Blood: EDTA	Kleihauer for foetal/maternal bleed estimation	Acid Elution method using Guest Medical Limited kit  SOP LMS419	S

END