


# Schedule of Accreditation

issued by

## United Kingdom Accreditation Service

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

 <p>Accredited to ISO 15189:2012</p>	<b>North Bristol NHS Trust</b> <b>Issue No: 003 Issue date: 07 September 2020</b>	
	Department of Haematology & Blood Transfusion Pathology Sciences Building Southmead Hospital Westbury on Trym Bristol BS10 5NB	Contact: Mrs Halina Collingbourne Tel: +44 (0) 117 4148354 Fax: +44 (0) 117 4148355 E-Mail: halina.collingbourne@nbt.nhs.uk Website: <a href="http://www.nbt.nhs.uk/severnpathology">http://www.nbt.nhs.uk/severnpathology</a>
Testing performed at the above address only		

### Laboratory locations:

Location details		Activity
Address	Contact details:	
Department of Haematology & Blood Transfusion Pathology Sciences Building Southmead Hospital Westbury on Trym Bristol BS10 5NB	Contact: Mrs Halina Collingbourne Tel: +44 (0) 117 4148354 Fax: +44 (0) 117 4148355 E-Mail: halina.collingbourne@nbt.nhs.uk Website: <a href="http://www.nbt.nhs.uk/severnpathology">http://www.nbt.nhs.uk/severnpathology</a>	Haematology Coagulation Blood Transfusion Sickle cell and thalassaemia screening

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

Location details	Activity
Central Delivery Suite (Maternity Department) Southmead Hospital	Storage of Blood products
Brunel Building Level 0 Southmead Hospital	Storage of Blood products
Brunel Building Level 1 Southmead Hospital	Storage of Blood products
Brunel Building Level 2 Southmead Hospital	Storage of Blood products
Brunel Building Level 3 Southmead Hospital	Storage of Blood products
Brunel Building Level 5 Southmead Hospital	Storage of Blood products



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Location details	Activity
Emersons Green NHS Treatment Centre The Brooms Emersons Green Bristol BS16 7FH	Storage of Blood products
Devizes NHS Treatment Centre Marshall Road Devizes Wiltshire SN10 3UF	Storage of Blood products
Air Ambulance South Western Ambulance - Devizes (Air Ambulance) Wiltshire Air operations Unit Police HQ London Road Devizes SN10 2DN	Storage of Blood products



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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  Venous Whole Blood: EDTA	<b><u>Haematological examination activities for the purpose of clinical diagnosis</u></b>  Full Blood Count (FBC) including: -  Haemoglobin Total and differential white cell count (Neutrophils, Lymphocytes, Monocytes, Eosinophils and Basophils) Reticulocytes Red Blood Cells Platelet  Platelets (Optical) Mean Cell Volume Mean Cell Haemoglobin Mean Cell Haemoglobin Concentration Haematocrit	Manufacturer's instructions for equipment and kits in conjunction with in house documented procedures  <b>Sysmex XN 9000 Analysers</b> Use of XN-9000 Series Analysers HA/HA/SOP/060 Use of Extended IPU (EPU) HA/HA/SOP/054  SLS Haemoglobin detection method Flow cytometry method semiconductor laser  Hydrodynamic Foc (DC method) Hydrodynamic Foc (DC method) Flow cytometry method semiconductor laser  Calculated from RBC, HCT and HB  RBC cumulative pulse height detection method
Plasma	Plasma Viscosity	Benson Viscometer capillary viscosity HA/HA/SOP/013
Whole Blood (EDTA)	Malarial Parasite detection and speciation <ul style="list-style-type: none"> <li>• <u>P.falciparum</u></li> <li>• <u>P.vivax</u></li> <li>• <u>P.ovale</u></li> <li>• <u>P.malariae</u></li> <li>• <u>P. knowlesi</u></li> </ul> Detection of HRP2 and PLDH for identification of P falciparum and differentiation from other malarial sp.	manual film preparation, Giemsa and Fields stain and light microscopy HA/HA/SOP/003  Diasys Carestart Kit manual method HA/HA/SOP/003



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<p>HUMAN BODY FLUIDS (cont'd)</p> <p>Venous Whole Blood: EDTA</p>	<p><b><u>Haematological examination activities for the purpose of clinical diagnosis</u></b> (cont'd)</p> <p>Morphological assessment of blood films</p> <p>Quantification of Glucose 6-Phosphate Dehydrogenase (G6PD)</p> <p>Haemoglobinopathies Screening for Abnormal Haemoglobins</p> <p>Haemoglobin S screen</p> <p>Identification and quantification of normal and abnormal Haemoglobins: A, A2, F, S, D, C, E, Lepore O<sup>Arab</sup>, G, Philadelphia, other Haemoglobins with an abnormal retention time.</p>	<p>Manufacturer's instructions for equipment and kits in conjunction with in house documented procedures</p> <p>Manual staining ClinTech May Grunwald and BDH Giemsa HA/HA/SOP/022</p> <p>Automated staining Use of SP Slide Maker and Stainer HA/HA/SOP/061</p> <p>Blood Film and Medical Review Policy HA/HA/SOP/033</p> <p>Blood Film Assessment HA/HA/SOP/065</p> <p>Manual examination microscopes</p> <p>Digital microscopy CellaVision software or microscope HA/HA/SOP/056</p> <p>UV Light Spectrophotometer HA/HA/SOP/001</p> <p>Documented -in-house methods to meet the requirements of the Sickle Cell and Thalassaemia screening programme as defined in the July 2018 'SCT screening: laboratory QA evidence requirements' Bio-Rad Variant II HPLC HA/HA/SOP/010</p> <p>Helena Biosciences Sickle Solubility kit. HA/HA/SOP/021</p> <p>Iso-Electric Focussing CSL Flatbed Focussing unit HA/HA/SOP/017</p>



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HUMAN BODY FLUIDS (cont'd)	<b><u>Haematological examination activities for the purpose of clinical diagnosis</u></b> (cont'd)	Manufacturer's instructions for equipment and kits in conjunction with in house documented procedures
Venous Whole Blood: EDTA	Detection of Intrinsic Factor Antibodies Quantification of Erythropoietin Level	Beckman Coulter Access II competitive binding immuno-enzymatic HA/HA/SOP/048
Urine	Detection of Urine Haemosiderin	ClinTech Perls Iron stain manual method HA/HA/SOP/011
Bone marrow	Detection of abnormal and normal Bone Marrow morphologies and Iron stores	ClinTech May Grunwald and BDH Giemsa manual method HA/HA/SOP/022 Perl's Iron Staining manual method HA/HA/SOP/011
Venous blood: Citrated	Blood Coagulation Studies  Clotting screen (Manual): Prothrombin Time Activated Partial Thromboplastin Time  Clotting Screen (Automated): Prothrombin Time Activated Partial Thromboplastin Time Fibrinogen estimation Thrombin Time D-Dimer Quantification of Cross-Linked Fibrin Degradation Product (XDP) Lupus Screen Lupus Sensitive Activated Partial Thromboplastin Time Dilute Russell's' Viper Venom Time Activated Partial Thromboplastin Time Corrections	  HA/CO/SOP/025 (manual method) HA/CO/SOP/024 (manual method)  Sysmex CS-5100 automated coagulation HA/CO/SOP/054 HA/CO/SOP/031 Optical HA/CO/SOP/032 Optical HA/CO/SOP/031 Optical HA/CO/SOP/020 Optical HA/CO/SOP/034 Immunoturbidimetric HA/CO/SOP/034 Immunoturbidimetric  HA/CO/SOP/055 HA/CO/SOP/029 Optical  HA/CO/SOP/027 Optical HA/CO/SOP/026 Optical



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HUMAN BODY FLUIDS (cont'd)	<b><u>Haematological examination activities for the purpose of clinical diagnosis</u></b> (cont'd)	Manufacturer's instructions for equipment and kits in conjunction with in house documented procedures
Venous blood: Citrated	Thrombotic Screening (Lupus anticoagulant) Quantification of: Protein S Protein C Anti-Thrombin III Activated Protein C Resistance Ratio	Sysmex CS-5100 automated coagulation HA/CO/SOP/055  Immunoturbidimetric HA/CO/SOP/007 Chromogenic HA/CO/SOP/010 Chromogenic HA/CO/SOP/004 Optical HA/CO/SOP/002
Venous blood: Citrated	Quantification of: Anti Xa I Rivaroxaban Von-Willebrand Factor Antigen Ristocetin Co Factor  Factor Assays:  Factor X Factor XI  Factor XII  Factor II Factor V Factor VII Factor VIII Assay  Factor IX Assay  Factor XIII	HA/CO/SOP/054 Chromogenic HA/CO/SOP/017 Chromogenic HA/CO/SOP/053 Agglutination HA/CO/SOP/015 Immunoturbidimetric HA/CO/SOP/013  Sysmex CS-5100 automated coagulation  PT Based One Stage HA/CO/SOP/037 APTT Based One Stage Assay HA/CO/SOP/036 APTT Based One Stage Assay HA/CO/SOP/036 PT Based One Stage HA/CO/SOP/037 PT Based One Stage HA/CO/SOP/037 HA/CO/SOP/037 PT Based One Stage APTT Based One Stage Assay HA/CO/SOP/036 APTT Based One Stage Assay HA/CO/SOP/036 HA/CO/SOP/036 APTT Based One Stage Assay HA/CO/SOP/045 Photometric Test



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<p>HUMAN BODY FLUIDS (cont'd)</p> <p>Venous Whole Blood: EDTA</p>	<p><b><u>Haematological examination activities for the purpose of clinical diagnosis</u></b> (cont'd)</p> <p>Antibody screening and identification</p> <p>A B and O and detection of Anti-Sera (reverse group)</p> <p>A B and O groups and detection of Anti-Sera (reverse group) -Anti A -Anti B</p> <p>A1 typing</p> <p>Rhesus groups, antigens-; C<sup>w</sup>, C, c, D, E, e,</p> <p>Blood Grouping Detection of antigens:</p> <p>Kell: K, k, Kp<sup>a</sup>, Kp<sup>b</sup> Kidd: Jk<sup>a</sup>, Jk<sup>b</sup>, Duffy: Fy<sup>a</sup>, Fy<sup>b</sup>, Lutheran: Lu<sup>a</sup>, Lub MNS: M, N, S, s, Lewis: Le<sup>a</sup>, Le<sup>b</sup>, P: P<sub>1</sub>:</p> <p>Antibody detection: Rhesus: anti-Cw, anti-C, anti-c, anti-D, anti-E, anti-e, Kell: anti-K, anti-k, anti-Kpa, Kidd: anti-Jk<sup>a</sup>, anti-Jk<sup>b</sup>, Duffy: anti-Fy<sup>a</sup>, anti-Fy<sup>b</sup>,</p>	<p>Manufacturer's instructions for equipment and kits in conjunction with in house documented procedures</p> <p>Grifols Erytra gel column technology HA/BB/SOP/069</p> <p>Manual grouping HA/BB/SOP/061</p> <p>Manual A1 typing HA/BB/SOP/058</p> <p>Gel Card Rh &amp; Kell Phenotype Manual Method Grifols IAT cards HA/BB/SOP/060</p> <p>Red cell Phenotyping (non-card) manual interpretation HA/BB/SOP/084</p> <p>Manual Antibody identification Grifols Cards and manual interpretation HA/BB/SOP/064</p>



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HUMAN BODY FLUIDS (cont'd)	<b><u>Haematological examination activities for the purpose of clinical diagnosis</u></b> (cont'd)	Manufacturer's instructions for equipment and kits in conjunction with in house documented procedures
Venous Whole Blood: EDTA	Detection of antibodies to:  Lutheran: anti-Lu <sup>a</sup> , Lub MNS: anti-M, anti-N, anti-S, anti-s, Lewis: anti-Le <sup>a</sup> , anti-Le <sup>b</sup> , P: anti-P <sub>1</sub>	Manual Antibody identification Grifols Cards and manual interpretation HA/BB/SOP/064
	Detection of sensitised red cells (Direct Coombs Test (DAT))	Grifols Cards and manual interpretation HA/BB/SOP/059
	Detection of sensitised red cells (Direct Coombs Test (tube))	Manual IAT (Tube) HA/BB/SOP/029
	Detection of broad spectrum C3d and IgG	Grifols Cards and manual interpretation HA/BB/SOP/059
	Detection of Broad spectrum, C3d and IgG	Manual IAT (Tube) HA/BB/SOP/029
	Compatibility testing	Manual IAT Gel Card Compatibility Test HA/BB/SOP/062
	Neonatal Blood Group A B and O groups Rhesus groups, antigen-; D	Manual grouping Grifols gel column DAT. HA/BB/SOP/063
	Antenatal Blood Group and antibody screen	Erytra with Grifols gel column technology. HA/BB/SOP/001
	Detection and quantification of Fetal cells	Screen and Quantification Acid Elution HA/BB/SOP/051
	Quantification of Fetal cells by Flow cytometry	FACS Canto flow cytometer. FITC-conjugated BRAD-3 anti-D HA/BB/SOP/078

END