


Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

 Accredited to ISO 15189:2012	Dartford and Gravesham NHS Trust	
	Issue No: 006 Issue date: 04 May 2023	
	Department of Haematology and Blood Transfusion 3rd Floor Pathology Directorate Darent Valley Hospital Darenth Wood Road Dartford Kent DA2 8DA	Contact: Ms Tracy Wynn Tel: +44 (0) 1322 428100 E-Mail: tracy.wynn@nhs.net Website: http://www.dvh.nhs.uk
Testing performed at the above address only		

Site activities performed away from the locations listed above:

Location details		Activity
Address Theatres Queen Mary's Hospital Frognal Avenue Sidcup Kent DA14 6LT	Rebecca Becks (Theatre Manager)	Blood Storage: 1 blood fridge



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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>Blood Transfusion examination activities for the purpose of clinical diagnosis</u>	Documented in-house procedures in conjunction with manufacturer's instructions for analysis using:
Venous Blood: EDTA samples	<p>Blood Grouping (adult and ante-natal)</p> <ul style="list-style-type: none"> • ABO • Rh D 	<p>Ortho Vision Swift (Automated) Column technique utilising Ortho cells for grouping column.</p> <p>Manual column technique utilising Ortho cells for grouping and screening with BioRad cards</p> <p>Manual tube technique for groups using Ortho A₁rr and Brr cells and Anti-A, B, D1 and D2 sera from Lorne</p> <p>Measurement Principle: Antibody Antigen reaction</p> <p>SOP reference: SOP.BT.DVH.5 SOP.BT.DVH.6</p>
Venous Blood: EDTA samples	<p>Blood Grouping (Neonatal)</p> <p>ABO and Rh D</p>	<p>Ortho Vision Swift (Automated) Column technique utilising Ortho cells for grouping column.</p> <p>Manual column technique utilising Ortho cells for grouping and screening with BioRad cards</p> <p>Manual tube technique for groups using Ortho A₁rr and Brr cells and Anti-A, B, D1 and D2 sera from Lorne</p> <p>Measurement Principle: Antibody Antigen reaction</p> <p>SOP reference: SOP.BT.DVH.5 SOP.BT.DVH.6</p>



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HUMAN BODY FLUIDS (cont'd)	<u>Blood Transfusion examination activities for the purpose of clinical diagnosis (cont'd)</u>	Documented in-house procedures in conjunction with manufacturer's instructions for analysis using:
Venous Blood: EDTA samples	Antibody Screening (adult and ante-natal) <ul style="list-style-type: none">• D, C, E, c, e, C^w,• Kell, Cellano, Kp^a• Fya, Fy^b,• Jk^a, Jk^b,• Le^a, Le^b,• S, s, M, N,• P1	Ortho Vision Swift (Automated) Manual column technique using Ortho 3 cell antibody screen. Measurement Principle: Antibody Antigen reaction using SOP reference: Blood Transfusion 005 (Automated) Blood Transfusion 49935 (Manual)
Venous Blood: EDTA samples	Antibody identification (adult only) <ul style="list-style-type: none">• D, C, E, c, e, C^w,• Kell, Cellano, Kp^a• Fya, Fy^b,• Jk^a, Jk^b,• Le^a, Le^b,• S, s, M, N,• P1• Lu^a	Ortho Vision Swift (Automated) Manual column technique using Ortho Liverpool antibody panel Measurement Principles: Indirect Agglutination Test SOP reference Blood Transfusion 7382



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Venous Blood: EDTA samples	Serological crossmatch: Compatibility testing of patients plasma with donor cells	Manual column technique utilising BioRad cards Measurement Principle (s): Indirect Agglutination Test SOP reference: Blood Transfusion 7403 Ortho Vision Swift (Automated) Manual column technique using Ortho antibody panel Measurement Principles: Indirect Agglutination Test
Venous Blood: EDTA samples	Electronic crossmatch	Using LIMS algorithms
Venous Blood: EDTA samples	Direct Antiglobulin test (DAT)	Ortho Vision Swift (Automated) Manual column technique utilising Ortho cards Measurement Principle: Direct Agglutination Test SOP reference: Blood Transfusion 7338



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<p>HUMAN BODY FLUIDS (cont'd)</p> <p>Venous Blood: EDTA samples</p>	<p><u>Blood Transfusion examination activities for the purpose of clinical diagnosis (cont'd)</u></p> <p>Determination of red cell phenotypes</p> <ul style="list-style-type: none"> • D, C, E, c, e, • C^w, • Kell, Kp^a • Fya, Fy^b, • Jk^a, Jk^b, • Le^a, Le^b, • S, s, M, N, • P1 • Lu^a <ul style="list-style-type: none"> • Rh/k • E, C,e, c, K 	<p>Documented in-house procedures in conjunction with manufacturer's instructions for analysis using:</p> <p>Manual methods using column and tube technique using prepared Rh and K phenotype cards from BioRad or Lorne antisera for extended phenotyping.</p> <p>Measurement Principle (s): Indirect Agglutination Test</p> <p>SOP reference: Blood Transfusion 7219</p> <p>Ortho Vision Swift (Automated) Manual column technique using Ortho antibody panel</p> <p>Measurement Principle: Antibody Antigen reaction</p>
<p>Venous Blood: EDTA samples</p>	<p>Kleihauer for foetal/maternal bleed estimation</p>	<p>Clintech Shepard's Stain kit</p> <p>SOP reference: Blood Transfusion 7396</p>



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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:
Venous whole blood:	<p>FBC</p> <ul style="list-style-type: none"> - Haemoglobin - White blood cell count - Red blood cell count - Platelet count - White blood cell differential count - Haematocrit (HCT) - Mean cell volume (MCV) - Mean cell haemoglobin (MCH) - Mean cell haemoglobin concentration (MCHC) - Red cell distribution width (RDW) - Neutrophils absolute count - Lymphocytes absolute count - Monocytes absolute count - Eosinophils absolute count - Basophils absolute count - Reticulocyte count - Nucleated red cell 	<p>Beckman Coulter UniceL DxH800</p> <p>Measurement Principles: Impedance Count (red, white and platelet cell count and MCV), Flow Cytometry (differential), calculated (red cell indices) and spectrophotometry (haemoglobin)</p> <p>SOP reference: SOP.HAE.2</p>
Venous whole blood: EDTA	Detection of normal and abnormal morphologies	<p>Automated method of making and staining blood slides with Wright's Giemsa using Beckman Slide maker Stainer (SMS)</p> <p>Manual May Grünwald/Giemsa stain method</p> <p>SOP reference Haematology 841</p>
Venous whole blood:	Erythrocyte Sedimentation Rate (ESR)	<p>StaRRsed AutoCompact using Westergren method</p> <p>SOP reference: Haematology 33845</p>



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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:
		Documented in-house methods to meet the requirements of the Sickie Cell and Thalassaemia Screening Programme as defined in the July 2018 laboratory QA evidence requirements'
Venous whole blood :EDTA	Screening to detect the presence of Haemoglobin-S	Sickle Solubility Kit: S test kit (Microgen) Measurement Principle: Oxygen reducing reagent SOP reference: Haematology 7292



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Venous whole blood :EDTA	Haemoglobinopathy screening for: <ul style="list-style-type: none"> • Haemoglobin AS • Haemoglobin AC • Haemoglobin AD^{Punjab} • Haemoglobin AE • Haemoglobin AO^{Arab} • Haemoglobin ALepore • βThalassaemia carrier • $\delta\beta$Thalassaemia carrier • α^0thalassaemia carrier • Hereditary Persistence of Foetal Haemoglobin (HPFH). 	Biorad Variant II Measurement Principle: High Performance Liquid Chromatography SOP reference: SOP.HAE.1 Documented in-house procedures in conjunction with manufacturer's instructions for analysis using:
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"> • <i>Plasmodium ovale</i> • <i>Plasmodium falciparum</i>, <i>Plasmodium malariae</i> • <i>Plasmodium vivax</i> 	Apcor Care Start Malaria Measurement Principle: Antigen binding to monoclonal antibodies SOP reference: Haematology 33848
Venous whole blood: EDTA	Detection and Identification of <i>Plasmodium</i> species: <ul style="list-style-type: none"> • <i>P.falciparum</i> • <i>P.vivax</i> • <i>P.ovale</i> • <i>P.malariae</i> <i>P knowlesi</i>	Giemsa stained thick and thin films SOP reference: SOP.HAE.4



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HUMAN BODY FLUIDS	<u>Coagulation examination activities for the purpose of clinical diagnosis</u>	Documented in-house procedures in conjunction with manufacturer's instructions for analysis using:
Venous whole blood: Sodium Citrate	<ul style="list-style-type: none"> Prothrombin time Activated partial thromboplastin time (APTT) Derived fibrinogen Quantitative Fibrinogen Assay (QFA) D-Dimer 	IL TOP 700 Measurement Principle (s): Turbidometric Derived fibrinogen is determined by algorithm from prothrombin time D-dimer is immunoturbidimetric method SOP reference: SOP.HAE.5
Venous whole blood: Sodium Citrate	Thrombophilia Screening <ul style="list-style-type: none"> Protein C Antithrombin III Protein S Lupus Anticoagulant aPCR FVIII 	IL TOP 700 Measurement Principle (s): Chromogenic/colourmetric Turbidimetric Clot Detection SOP Reference: SOP.HAE.15
Venous whole blood: Sodium Citrate	Factor Assays <ul style="list-style-type: none"> FIX 	IL TOP 700 Measurement Principle (s): Turbidimetric Clot Detection SOP Reference: SOP.HAE.15
Bone Marrow Aspirates	Detection of normal and abnormal morphologies	Manual stain – May Grünwald/Giemsa SOP reference Haematology 7316
END		