


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: 005 Issue date: 13 April 2022	
	Department of Haematology and Blood Transfusion 3 rd Floor Pathology Directorate Darent Valley Hospital Darent 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 Frognaal 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
<p>HUMAN BODY FLUIDS</p> <p>Venous Blood: EDTA samples</p>	<p><u>Blood Transfusion examination activities for the purpose of clinical diagnosis</u></p> <p>Blood Grouping (adult and ante-natal)</p> <ul style="list-style-type: none"> • ABO • Rh D 	<p>Documented in-house procedures in conjunction with manufacturer's instructions for analysis using:</p> <p>Bio-Rad IH-500 (Automated) Column technique utilising NHSBT cells for grouping column.</p> <p>Manual column technique utilising NHSBT cells for grouping and screening with BioRad cards</p> <p>Manual tube technique for groups using NHSBT 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>
<p>Venous Blood: EDTA samples</p>	<p>Blood Grouping (Neonatal)</p> <p>ABO and Rh D</p>	<p>Bio-Rad IH-500 (Automated) Column technique utilising NHSBT cells for grouping column.</p> <p>Manual column technique utilising NHSBT cells for grouping and screening with BioRad cards</p> <p>Manual tube technique for groups using NHSBT 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 antenatal) <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 	Bio-Rad IH-500 (Automated) Manual column technique using NHSBT 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 	Manual column technique using NHSBT Liverpool antibody panel Measurement Principles: Indirect Agglutination Test SOP reference Blood Transfusion 7382
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
Venous Blood: EDTA samples	Electronic crossmatch	Using LIMS algorithms
Venous Blood: EDTA samples	Direct Antiglobulin test	Bio-Rad IH-500 (Automated) Manual column technique utilising BioRad cards Measurement Principle: Direct Agglutination Test SOP reference: Blood Transfusion 7338



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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	Determination of red cell phenotypes <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 	Manual methods using column and tube technique using prepared Rh and K phenotype cards from BioRad or Lorne antisera for extended phenotyping. Measurement Principle (s): Indirect Agglutination Test SOP reference: Blood Transfusion 7219
Venous Blood: EDTA samples	Kleihauer for foetal/maternal bleed estimation	Clintech Shepard's Stain kit SOP reference: Blood Transfusion 7396



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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:	FBC <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 	Beckman Coulter Unicel DxH800 Measurement Principles: Impedance Count (red, white and platelet cell count and MCV), Flow Cytometry (differential), calculated (red cell indices) and spectrophotometry (haemoglobin) SOP reference: SOP.HAE.2
Venous whole blood: EDTA	Detection of normal and abnormal morphologies	Automated method of making and staining blood slides with Wright's Giemsa using Beckman Slide maker Stainer (SMS) Manual May Grünwald/Giemsa stain method SOP reference Haematology 841
Venous whole blood:	Erythrocyte Sedimentation Rate (ESR)	StaRRsed AutoCompact using Westergren method SOP reference: Haematology 33845



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<p>HUMAN BODY FLUIDS (cont'd)</p> <p>Venous whole blood :EDTA</p> <p>Venous whole blood :EDTA</p> <p>Venous whole blood: EDTA</p>	<p><u>Haematology examination activities for the purpose of clinical diagnosis (cont'd)</u></p> <p>Screening to detect the presence of Haemoglobin-S</p> <p>Haemoglobinopathy screening for:</p> <ul style="list-style-type: none"> • Haemoglobin AS • Haemoglobin AC • Haemoglobin AD^{Punjab} • Haemoglobin AE • Haemoglobin AO^{Arab} • Haemoglobin ALepore • βThalassaemia carrier • δβThalassaemia carrier • α^othalassaemia carrier • Hereditary Persistence of Foetal Haemoglobin (HPFH). <p>Screening for the detection of <i>Plasmodium falciparum</i> and <i>Plasmodium</i> spp. Including:</p> <ul style="list-style-type: none"> • <i>Plasmodium ovale</i> • <i>Plasmodium falciparum</i>, <i>Plasmodium malariae</i> • <i>Plasmodium vivax</i> 	<p>Documented in-house procedures in conjunction with manufacturer's instructions for analysis using:</p> <p>Documented in-house methods to meet the requirements of the Sickle Cell and Thalassaemia Screening Programmes defined in the July 2018 laboratory QA evidence requirements'</p> <p>Sickle Solubility Kit: S test kit (Microgen)</p> <p>Measurement Principle: Oxygen reducing reagent</p> <p>SOP reference: Haematology 7292</p> <p>Biorad Variant II</p> <p>Measurement Principle: High Performance Liquid Chromatography</p> <p>SOP reference: SOP.HAE.1</p> <p>Documented in-house procedures in conjunction with manufacturer's instructions for analysis using:</p> <p>Apcor Care Start Malaria</p> <p>Measurement Principle: Antigen binding to monoclonal antibodies</p> <p>SOP reference: Haematology 33848</p>



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Venous whole blood: EDTA	Detection and Identification of Plasmodium species: <ul style="list-style-type: none"> • P.falciparum • P.vivax • P.ovale • P.malariae P knowlesi	Giemsa stained thick and thin films SOP reference: SOP.HAE.4
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		