


# Schedule of Accreditation

issued by

## United Kingdom Accreditation Service

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

 <b>Accredited to ISO 15189:2012</b>	<b>Dartford and Gravesham NHS Trust</b>	
	<b>Issue No: 003    Issue date: 05 March 2020</b>	
	<b>Department of Haematology and Blood Transfusion</b> 3 <sup>rd</sup> Floor Pathology Directorate Darent Valley Hospital Darenth Wood Road Dartford Kent DA2 8DA	<b>Contact: Gillian Hubbard</b> <b>Tel: +44 (0) 1322 428100 x8476</b> <b>E-Mail: Gillian.hubbard@nhs.net</b> <b>Website: <a href="http://www.dvh.nhs.uk">http://www.dvh.nhs.uk</a></b>
<b>Testing performed at the above address only</b>		

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

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



9746  
Accredited to  
ISO 15189:2012

**Schedule of Accreditation**  
issued by  
**United Kingdom Accreditation Service**  
2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

**Dartford and Gravesham NHS Trust**

**Issue No:** 003    **Issue date:** 05 March 2020

Testing performed at main address only

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	Blood Grouping (adult and ante-natal) <ul style="list-style-type: none"> <li>• ABO</li> <li>• Rh D</li> </ul>	<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 A<sub>1rr</sub> and B<sub>rr</sub> 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	Blood Grouping (Neonatal) ABO and Rh D	<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 A<sub>1rr</sub> and B<sub>rr</sub> 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>



9746  
Accredited to  
ISO 15189:2012

**Schedule of Accreditation**  
issued by  
**United Kingdom Accreditation Service**  
2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

**Dartford and Gravesham NHS Trust**

**Issue No:** 003    **Issue date:** 05 March 2020

Testing performed at main address only

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
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"> <li>• D, C, E, c, e, C<sup>w</sup>,</li> <li>• Kell, Cellano, Kp<sup>a</sup></li> <li>• Fya, Fy<sup>b</sup>,</li> <li>• Jk<sup>a</sup>, Jk<sup>b</sup>,</li> <li>• Le<sup>a</sup>, Le<sup>b</sup>,</li> <li>• S, s, M, N,</li> <li>• P1</li> </ul>	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"> <li>• D, C, E, c, e, C<sup>w</sup>,</li> <li>• Kell, Cellano, Kp<sup>a</sup></li> <li>• Fya, Fy<sup>b</sup>,</li> <li>• Jk<sup>a</sup>, Jk<sup>b</sup>,</li> <li>• Le<sup>a</sup>, Le<sup>b</sup>,</li> <li>• S, s, M, N,</li> <li>• P1</li> <li>• Lu<sup>a</sup></li> </ul>	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



9746  
Accredited to  
ISO 15189:2012

**Schedule of Accreditation**  
issued by  
**United Kingdom Accreditation Service**  
2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

**Dartford and Gravesham NHS Trust**

**Issue No: 003    Issue date: 05 March 2020**

Testing performed at main address only

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
<p>HUMAN BODY FLUIDS (cont'd)</p> <p>Venous Blood: EDTA samples</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"> <li>• D, C, E, c, e,</li> <li>• C<sup>w</sup>,</li> <li>• Kell, Kp<sup>a</sup></li> <li>• Fya, Fy<sup>b</sup>,</li> <li>• Jk<sup>a</sup>, Jk<sup>b</sup>,</li> <li>• Le<sup>a</sup>, Le<sup>b</sup>,</li> <li>• S, s, M, N,</li> <li>• P1</li> <li>• Lu<sup>a</sup></li> </ul> <p>Kleihauer for foetal/maternal bleed estimation</p>	<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>Clintech Shepard's Stain kit</p> <p>SOP reference: Blood Transfusion 7396</p>



9746  
Accredited to  
ISO 15189:2012

**Schedule of Accreditation**  
issued by  
**United Kingdom Accreditation Service**  
2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

**Dartford and Gravesham NHS Trust**

**Issue No:** 003    **Issue date:** 05 March 2020

Testing performed at main address only

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
<p>HUMAN BODY FLUIDS (cont'd)</p> <p>Venous whole blood:</p>	<p><u>Haematology examination activities for the purpose of clinical diagnosis</u></p> <p>FBC</p> <ul style="list-style-type: none"> <li>- Haemoglobin</li> <li>- White blood cell count</li> <li>- Red blood cell count</li> <li>- Platelet count</li> <li>- White blood cell differential count</li> <li>- Haematocrit (HCT)</li> <li>- Mean cell volume (MCV)</li> <li>- Mean cell haemoglobin (MCH)</li> <li>- Mean cell haemoglobin concentration (MCHC)</li> <li>- Red cell distribution width (RDW)</li> <li>- Neutrophils absolute count</li> <li>- Lymphocytes absolute count</li> <li>- Monocytes absolute count</li> <li>- Eosinophils absolute count</li> <li>- Basophils absolute count</li> <li>- Reticulocyte count</li> <li>- Nucleated red cell</li> </ul>	<p>Documented in-house procedures in conjunction with manufacturer's instructions for analysis using:</p> <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>
<p>Venous whole blood: EDTA</p>	<p>Detection of normal and abnormal morphologies</p>	<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>
<p>Venous whole blood:</p>	<p>Erythrocyte Sedimentation Rate (ESR)</p>	<p>StaRRsed AutoCompact using Westergren method</p> <p>SOP reference: Haematology 33845</p>



9746  
Accredited to  
ISO 15189:2012

**Schedule of Accreditation**  
issued by  
**United Kingdom Accreditation Service**  
2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

**Dartford and Gravesham NHS Trust**

**Issue No: 003 Issue date: 05 March 2020**

Testing performed at main address only

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
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:
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
Venous whole blood :EDTA	Haemoglobinopathy screening for: <ul style="list-style-type: none"> <li>• Haemoglobin AS</li> <li>• Haemoglobin AC</li> <li>• Haemoglobin AD<sup>Punjab</sup></li> <li>• Haemoglobin AE</li> <li>• Haemoglobin AO<sup>Arab</sup></li> <li>• Haemoglobin ALepore</li> <li>• βThalassaemia carrier</li> <li>• δβThalassaemia carrier</li> <li>• α<sup>o</sup>thalassaemia carrier</li> <li>• Hereditary Persistence of Foetal Haemoglobin (HPFH).</li> </ul>	Biorad Variant II  Measurement Principle: High Performance Liquid Chromatography  SOP reference: SOP.HAE.1
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>, <i>Plasmodium malariae</i></li> <li>• <i>Plasmodium vivax</i></li> </ul>	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"> <li>• P.falciparum</li> <li>• P.vivax</li> <li>• P.ovale</li> <li>• P.malariae</li> </ul> P knowlesi	Giemsa stained thick and thin films  SOP reference: SOP.HAE.4



9746  
Accredited to  
ISO 15189:2012

**Schedule of Accreditation**  
issued by  
**United Kingdom Accreditation Service**  
2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

**Dartford and Gravesham NHS Trust**

**Issue No:** 003    **Issue date:** 05 March 2020

Testing performed at main address only

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
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"> <li>• Prothrombin time</li> <li>• Activated partial thromboplastin time (APTT)</li> <li>• Derived fibrinogen</li> <li>• Quantitative Fibrinogen Assay (QFA)</li> <li>• D-Dimer</li> </ul>	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"> <li>• Protein C</li> <li>• Antithrombin III</li> <li>• Protein S</li> <li>• Lupus Anticoagulant</li> <li>• aPCR</li> <li>• FVIII</li> </ul>	IL TOP 700 Measurement Principle (s): Chromogenic/colourimetric  Turbidimetric Clot Detection  SOP Reference: SOP.HAE.15
Venous whole blood: Sodium Citrate	Factor Assays <ul style="list-style-type: none"> <li>• FIX</li> <li>•</li> </ul>	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 Grönwald/Giemsa  SOP reference Haematology 7316

END