


Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

| | | |
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|  <p>9899</p> <p>Accredited to ISO 15189:2022</p> | <p>Birmingham Women's and Children's NHS Foundation Trust</p> <p>Issue No: 008 Issue date: 03 February 2025</p> | |
| | <p>Blood Sciences Department Birmingham Children's Hospital Steelhouse Lane Birmingham B4 6NH</p> | <p>Contact: Samuel Dey Tel: +44 (0) 0121 333 9867 Fax: +44 (0) 0121 333 9870 E-Mail: samuel.dey@nhs.net Website: www.bwc.nhs.uk</p> |
| | <p>Testing performed at the above address only</p> | |

Site activities performed away from the locations listed above:

| Location details | Activity | | | | | | | | | | |
|--|---|---|---|--|--|--|---|--|---|--|---|
| <table> <tr> <td>Emergency Department Birmingham Children's Hospital Steelhouse Lane Birmingham B4 6NH</td><td>Contact: Mr Richard Cole, Section Head, Blood Transfusion Tel: 0121 333 9858 Email: richardcole1@nhs.net</td></tr> <tr> <td>Ward 18 (Blood Room) Birmingham Children's Hospital Steelhouse Lane Birmingham B4 6NH</td><td></td></tr> <tr> <td>Theatre R Block TH5 Birmingham Children's Hospital Steelhouse Lane Birmingham B4 6NH</td><td></td></tr> <tr> <td>Main Theatres (Blood Room) Birmingham Children's Hospital Steelhouse Lane Birmingham B4 6NH</td><td></td></tr> <tr> <td>PICU Birmingham Children's Hospital Steelhouse Lane Birmingham B4 6NH</td><td></td></tr> </table> | Emergency Department Birmingham Children's Hospital Steelhouse Lane Birmingham B4 6NH | Contact: Mr Richard Cole, Section Head, Blood Transfusion Tel: 0121 333 9858 Email: richardcole1@nhs.net | Ward 18 (Blood Room) Birmingham Children's Hospital Steelhouse Lane Birmingham B4 6NH | | Theatre R Block TH5 Birmingham Children's Hospital Steelhouse Lane Birmingham B4 6NH | | Main Theatres (Blood Room) Birmingham Children's Hospital Steelhouse Lane Birmingham B4 6NH | | PICU Birmingham Children's Hospital Steelhouse Lane Birmingham B4 6NH | | <p>Blood storage & issue only</p> <p>Blood storage & issue only</p> <p>Blood storage & issue only</p> <p>Plasma freezer, storage & issue only</p> <p>Blood storage & issue only</p> |
| Emergency Department Birmingham Children's Hospital Steelhouse Lane Birmingham B4 6NH | Contact: Mr Richard Cole, Section Head, Blood Transfusion Tel: 0121 333 9858 Email: richardcole1@nhs.net | | | | | | | | | | |
| Ward 18 (Blood Room) Birmingham Children's Hospital Steelhouse Lane Birmingham B4 6NH | | | | | | | | | | | |
| Theatre R Block TH5 Birmingham Children's Hospital Steelhouse Lane Birmingham B4 6NH | | | | | | | | | | | |
| Main Theatres (Blood Room) Birmingham Children's Hospital Steelhouse Lane Birmingham B4 6NH | | | | | | | | | | | |
| PICU Birmingham Children's Hospital Steelhouse Lane Birmingham B4 6NH | | | | | | | | | | | |



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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 examinations to assist in clinical investigations</u> | Procedures documented in manufacturer's equipment manuals in conjunction with documented in-house procedures by the following methods: |
| Whole blood | Blood Group by detection and identification of antigens: ORhD positive ORhD negative ARhD positive A RhD negative B RhD positive B RhD negative AB RhD positive AB RhD negative | Automated Rapid Provisional Group ABO and Rh D using Grifols Erytra Elexis analysers and Grifols DG Gel Confirm P Monoclonal Anti-A, Anti-B, Anti D(VI-) and Control: BST/PS/035 2nd automated check group using Grifols Erytra Elexis analysers and Grifols DG Gel Confirm P Monoclonal Anti-A, Anti-B, Anti D(VI-) and Control. BST/PS/035 |
| Plasma/Whole blood | Blood Group by detection and identification of antigens: ORhD positive ORhD negative ARhD positive A RhD negative B RhD positive B RhD negative AB RhD positive AB RhD negative | Automated Full Group – Forward and Reverse group using Grifols Erytra Eflexis analysers and Grifols DG Gel ABO/Rh (2DVI-) HSB026 Monoclonal Anti-A, Anti-B, Anti-AB, Anti-D (VI-) x2, Control, Grifols Serigroup Diana A1 and B cells. BST/PS/035 |
| Whole Blood | Neonatal Blood Group (ABO and RhD) and Direct Antiglobulin Test DAT : ORhD positive ORhD negative ARhD positive A RhD negative B RhD positive B RhD negative AB RhD positive AB RhD negative | Automated analysis using Grifols Erytra Eflexis analysers and Grifols DG Gel Newborn Monoclonal Anti-A, Anti-B, Anti-AB, Anti-D (VI-), Anti-D (VI+), Control, Anti IgG, Polyspecific DAT (Anti-IgG+C3d): BST/PS/035 |



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| HUMAN BODY FLUIDS (cont'd) | <u>Blood Transfusion examinations to assist in clinical investigations</u> (cont'd): | Procedures documented in manufacturer's equipment manuals in conjunction with documented in-house procedures by the following methods: |
| Whole Blood | <p>Screening and identification of antibodies to : Rh (C, D, E, c, e, Cw) Kell (K, k, Kpa, Kpb, Jsa, Jsb) Duffy (Fya, Fyb) Kidd (Jka, Jkb) Lewis (Lea, Leb) P1 MNS (M, N, S, s) Lutheran (Lua, Lub) and Xga</p> <p>Compatibility Testing of patients plasma with donor cells</p> <p>Direct Antiglobulin Test</p> <p>Antigen phenotyping: Rh and Kell Phenotype C, D, E, c, e, Kell (K)</p> <p>M Phenotype:</p> | <p>Automated analysis using Grifols Erytra Elexis analysers and Grifols DG Gel Coombs (IgG+C3d) plus Grifols Serascan Screening cells 1, 11, 111 : BST/PS/035</p> <p>Automated analysis using Grifols Erytra Elexis analysers and Grifols DG Gel Coombs (IgG+c3d) and Identisera Diana. Grifols DG Gel Neutral and Grifols Identisera Diana P (papain enzyme) : BST/PS/035</p> <p>Automated analysis using Grifols Erytra Elexis analysers and Grifols DG Coombs (IgG+C3d): BST/PS/035</p> <p>Automated analysis using Grifols Erytra Elexis analysers and Grifols DG Coombs (IgG+C3d): BST/PS/035</p> <p>Monospecific DAT method using Grifols DG DC Scan monospecific DAT (IgG+C3d, IgG only, C3d only, control): BST/PS/035</p> <p>Automated analysis using Grifols Erytra Elexis analysers and Grifols DG Gel Rh Subgroups +Kell Anti-D (VI+), Anti-C, Anti-E, Anti-c, Anti-e, Anti-Cw, Anti-Kell : BST/PS/035</p> <p>Automated analysis of M antigen phenotyping using Grifols Erytra Elexis analysers and Grifols M antitoxin reagent method: BST/PS/035</p> |



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| HUMAN BODY FLUIDS (cont'd) | <u>Haematology examinations to assist in clinical investigations</u> | Procedures documented in manufacturer's equipment manuals in conjunction with documented in-house procedures by the following methods: |
| Whole Blood | <p>Full Blood Count: Haemoglobin platelet count red blood cell count mean cell volume haematocrit mean cell haemoglobin mean cell haemoglobin concentration white blood cell count white blood cell differential</p> <p>Reticulocyte count</p> <p>Nucleated red cell count</p> | <p>Sysmex XN2000 FBC analyser. Method - Fluorescence flow cytometry method, hydrodynamic focussing DC detection, SLS haemoglobin method</p> <p>SOP - FBC Validation (BSAH/PS/16)</p> <p>Sysmex XN2000 FBC analyser. Method - Fluorescence flow cytometry method. SOP - FBC Validation (BSAH/PS/16)</p> <p>Sysmex XN2000 FBC analyser. Method - Fluorescence flow cytometry method. SOP - FBC Validation (BSAH/PS/16)</p> |
| Peripheral blood | Microscopic analysis of blood films to determine morphological abnormalities | <p>Hematek stain machine, microscope. Method – Staining (modified Wright's stain), microscopic examination.</p> <p>SOP - Performing a manual differential using the Extended-Intelligent Processing Unit (EPU) (BSAH/PS/13)</p> <p>SOP - Blood and Bone Marrow Film Preparation (HSR0287)</p> <p>SOP - Microscopic film examination (HSR0023)</p> |



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| HUMAN BODY FLUIDS (cont'd) | <u>Haematology examinations to assist in clinical investigations (cont'd):</u> | Procedures documented in manufacturer's equipment manuals in conjunction with documented in-house procedures by the following methods: |
| Whole Blood | Malaria screening for: Plasmodium Falciparum and / or other species (P. Ovale, P. Malariae, P. Vivax, P. Knowlesi). | Commercial kit - Carestart malaria rapydtest. Method - Immunoassay. SOP - CareStart Malaria RDT (HSR0467) |
| | Detection & speciation (thin films) of malaria parasites: Plasmodium Falciparum, P. Ovale P. Malariae P. Vivax P. Knowlesi. | Manual staining: SOP - Giemsa Stain pH 7.2 (HSR0360) |
| | Glucose 6 Phosphate Dehydrogenase screen | Commercial kit - Trinity Biotech G6PD Deficiency, Longwave UV light source. Method - Visual fluorescence screening. SOP - G6PD Screen (HSR0293) |
| Whole blood, Plasma (citrate or EDTA), Serum. | Detection of infectious mononucleosis heterophile antibodies | Commercial kit - Clearview® IM II Test for Infectious Mononucleosis. Method - Immunoassay. SOP - Clearview® IM II Test for Infectious Mononucleosis (BS/PS/17) |
| Whole Blood | Erythrocyte Sedimentation Rate (ESR) | Commercial kit - Sarstedt Microvette CB200. Manual method - Sedimentation. SOP - ESR Examination - Sarstedt method (BSAH/PS/17) |



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| HUMAN BODY FLUIDS (cont'd) | <u>Haematology examinations to assist in clinical investigations (cont'd):</u> | Procedures documented in manufacturer's equipment manuals in conjunction with documented in-house procedures by the following methods: |
| Whole Blood | Haemoglobinopathy analysis by detection of haemoglobin variants: Hb S detection | Commercial kit - Microgen Bioproducts S-Test SOP - Sickle Solubility Test (HSR0357) |
| Citrated Plasma | <u>Special Coagulation examinations to assist in clinical investigations</u> Prothrombin Time (PT) Activated Partial Thromboplastin Time (APTT) Clauss Fibrinogen (Fbg) Thrombin Time / Protamine Sulphate Time (TT/TTPS) International Normalised Ratio (INR) Anti-Xa Assays (LMWH and UFH) (Chromogenic assay) | Sysmex CS2000i Analyser - using Manufacturer's Reagent SOP: HSC0484 SOP: SOP HSC0486 SOP HSC0491 SOP HSC0487 SOP HSC0485 SOP BSSH/PS/60 |



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| HUMAN BODY FLUIDS (cont'd) | <u>Special Coagulation examinations to assist in clinical investigations (cont'd)</u> | Procedures documented in manufacturer's equipment manuals in conjunction with documented in-house procedures by the following methods: |
| Citrated Plasma | Bethesda Assay for VIII Neutralising Inhibitors | SOP HSC0500 |
| | Factor II Assay (One-Stage) (PT based clotting) | SOP HSC0505 |
| | Factor V Assay (One-Stage) (PT based clotting) | SOP HSC0506 |
| | Factor VII Assay (One-Stage) (PT based clotting) | SOP HSC0507 |
| | Factor VIII Assay (One-Stage) (APTT based clotting) | SOP HSC0494 |
| | Factor VIII Assay (Chromogenic) | SOP HSC0501 |
| | Factor IX Assay (One-Stage) (APTT based clotting) | SOP HSC0495 |
| | Factor X Assay (One-Stage) (PT based clotting) | SOP HSC0508 |
| | Factor XI Assay (One-Stage) (APTT based clotting) | SOP HSC0496 |
| | Factor XII Assay (One-Stage) (APTT based clotting) | SOP HSC0497 |
| | Factor XIII Assay (chromogenic) | SOP HSC0509 |
| | Von Willebrand Factor (vWF) Antigen Assay | SOP HSC0490 |
| | Von Willebrand Factor (vWF) Activity Assay | SOP HSC0511 |



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| HUMAN BODY FLUIDS (cont'd) | <u>Special Coagulation examinations to assist in clinical investigations</u> (cont'd) | Procedures documented in manufacturer's equipment manuals in conjunction with documented in-house procedures by the following methods: Sysmex CS2000i Analyser - using Manufacturer's Reagent |
| Citrated Plasma (cont'd) | Antithrombin Activity Assay (AT) | SOP HSC0499 |
| | Protein S (Free) Antigen Assay | SOP BSSH001 |
| | Protein C Activity Assay | SOP HSC0498 |
| | Lupus Anticoagulant Screen (dRVVT) | BSSH/PS/64 Beckman Coulter Navios Flowcytometer: |
| Peripheral Blood | Peripheral Blood Stem Cell Assay CD34 | SOP: BSSH/PS/7 |
| | Lymphocyte Subsets (Immune Monitoring) CD3, CD4, CD8, CD19, CD16/56 | SOP: BSSH/PS/8 |
| | EMA for Hereditary Spherocytosis | SOP: BSSH/PS/5 |
| | Platelet Glycoprotein Assay CD41, CD42b, CD61, CD62p | SOP: BSSH/PS/9 |



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| HUMAN BODY FLUIDS (cont'd) | <u>Biochemistry examinations to assist in clinical investigations</u> | Procedures documented in manufacturer's equipment manuals in conjunction with documented in-house procedures by the following methods: |
| Plasma | 3-Hydroxy Butyrate | Roche Cobas 501 – enzymatic method– 3 rd party (Randox) SOP I/S/H/025 |
| Plasma/Serum | Alanine Amino Transferase | Roche Cobas 501 – enzymatic method – Roche reagent SOP S/S/A/062 |
| Plasma/Serum | Albumin | Roche Cobas 501 – colorimetric method – Roche reagent SOP S/S/A/064 |
| Plasma/Serum | Alkaline Phosphatase | Roche Cobas 501 – colorimetric method – Roche reagent SOP S/S/A/065 |
| Plasma | Ammonia | Roche Cobas 501 – enzymatic method– 3 rd party (Randox) SOP S/S/A/095 |
| Plasma/Serum, Urine, Fluid | Amylase | Roche Cobas 501 – enzymatic colorimetric method – Roche reagent SOP S/S/A/066 |
| Plasma/Serum | Aspartate Transaminase | Roche Cobas 501 – enzymatic method – Roche reagent SOP S/S/A/063 |
| Plasma/Serum | Bilirubin -Total | Roche Cobas 501 – colorimetric diazomethod – Roche reagent SOP S/S/B/102 |
| Plasma/Serum, Urine | Bilirubin - Direct | Roche Cobas 501 – colorimetric method – 3 rd party(WAKO) reagent SOP S/S/B/112. |
| Plasma/Serum, Urine | Bicarbonate | Roche Cobas 501 – colorimetric method – Roche reagent SOP S/S/B/067 |



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| Plasma/Serum | C-reactive Protein | Roche Cobas 501 – particle enhanced immunoturbidimetric method – Roche reagent SOP S/S/C/073 |
| Plasma/Serum, Urine Fluid | Calcium | Roche Cobas 501 – colorimetric method – Roche reagent SOP S/S/C/068 |
| Plasma/Serum, Urine Fluid | Creatinine | Roche Cobas 501 – enzymatic method – Roche reagent SOP S/S/C/075 |
| Plasma/Serum | Cholesterol | Roche Cobas 501 – enzymatic colorimetric method– Roche reagent SOP S/S/C/072 |
| Plasma/Serum, Urine Fluid | Chloride | Roche Cobas 501 – indirect ISE– Roche reagent SOP S/S/C/069 |
| Plasma/Serum | Creatine Kinase | Roche Cobas 501 – colorimetric method – Roche reagent SOP S/S/C/074 |
| Plasma/Serum | Free Fatty Acids | Roche Cobas 501 – colorimetric method– 3 rd party (Randox) SOP I/S/F/029 |
| Plasma/Serum | Gamma-Glutamyl transferase | Roche Cobas 501 – enzymatic colorimetric method– Roche reagent SOP S/S/G/076 |
| Plasma/Serum, Urine | Glucose | Roche Cobas 501 – enzymatic reference method with hexokinase– Roche reagent SOP S/S/G/086 |



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| HUMAN BODY FLUIDS (cont'd) | <u>Biochemistry examinations to assist in clinical investigations</u> (cont'd) | Procedures documented in manufacturer's equipment manuals in conjunction with documented in-house procedures by the following methods: |
| Plasma/Serum, Urine | High Density Lipoprotein Cholesterol | Roche Cobas 501 – Homogenous enzymatic colorimetric method– Roche reagent SOP S/S/H/108 |
| Plasma/Serum | Immunoglobulins IgA, IgM, IgG | Roche Cobas 501: Roche Cobas 501 – immunoturbidimetric method – Roche reagent SOP S/S/I/104 |
| Plasma/Serum | Iron | Roche Cobas 501 – colorimetric method – Roche reagent SOP S/S/I/107 |
| Plasma/Serum | Lactate Dehydrogenase | Roche Cobas 501 - Optimized standard method according to the Deutsche Gesellschaft für Klinische Chemie (DGKC). Roche reagent SOP S/S/L/096 |
| Plasma/Serum / CSF | Lactate | Roche Cobas 501 – colorimetric method – Roche reagent SOP S/S/L/082 |
| Serum/Plasma | Magnesium | Roche Cobas 501 – colorimetric endpoint method – Roche reagent SOP S/S/M/098 |
| Serum | Methotrexate | Roche Cobas 501 – Homogenous enzyme immunoassay method– 3 rd party (ARK reagent) SOP BSAC/PS/1 |
| Plasma/Serum | Paracetamol | Roche Cobas 501 – Homogenous enzyme immunoassay method Roche reagent SOP S/S/P/099 |



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| Plasma/ Serum / Urine / Fluid / Faeces | Potassium | Roche Cobas 501 – indirect ISE– Roche reagent BS/SOP/676 |
| Plasma /Serum / Urine | Phosphate | Roche Cobas 501 – Molybdate UV photometric– Roche reagent SOP S/S/P/101 |
| Plasma /Serum / Urine/ Fluid | Total Protein | Roche Cobas 501 – colorimetric method – Roche reagent SOP S/S/T/079 |
| CSF | CSF Protein | Roche Cobas 501 – turbidimetric method – Roche reagent SOP S/S/P/007 |
| Plasma /Serum / Urine / Fluid / Faeces | Sodium | Roche Cobas 501 – indirect ISE– Roche reagent SOP S/S/S/070 |
| Plasma/Serum | Salicylate | Roche Cobas 501 – photometric method – Roche reagent SOP S/S/S/100 |
| Plasma/ Serum / Fluid | Triglyceride | Roche Cobas 501 – enzymatic colorimetric method– Roche reagent SOP S/S/T/106 |
| Plasma/Serum / Urine / Fluid | Urea | Roche Cobas 501 – kinetic photometric method – Roche reagent SOP S/S/U/103 |
| Plasma/Serum | Uric Acid | Roche Cobas 501 – enzymatic colorimetric method– Roche reagent SOP S/S/U/078 |



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| Plasma/Serum | Unbound Iron binding capacity | Roche Cobas 501 –colorimetric method– Roche reagent SOP S/S/U/093 |
| Serum/Lithium Heparin Plasma | Vitamin D | Roche Cobas 601 – competitive chemiluminescent immunoassay – Roche reagent SOP S/S/133 |
| Serum | Prolactin | Roche Cobas 601 – sandwich chemiluminescent immunoassay – Roche reagent SOP BSAC/PS/46 |
| Serum | Macroprolactin | Roche Cobas 601 and PEG PPT – sandwich chemiluminescent immunoassay – Roche reagent SOP BSAC/PS/47 |
| Plasma/Serum | Alpha-Fetoprotein | Roche Cobas 601 –sandwich chemiluminescent immunoassay– Roche reagent SOP S/S/A/094 |
| Serum | Ferritin | Roche Cobas 601 – sandwich chemiluminescent immunoassay – Roche reagent SOP S/S/116 Ferritin |
| Plasma/Serum | Free Thyroxine | Roche Cobas 601 –competitive chemiluminescent immunoassay– Roche reagent SOP S/S/F/084 |
| Serum | Oestradiol | Roche Cobas 601 – competitive chemiluminescent immunoassay – Roche reagent. SOP BS/SOP/702 |



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| Plasma/Serum | Free Tri-iodothyronine (FT3) | Roche Cobas 601 –competitive chemiluminescent immunoassay– Roche reagent SOP BSAC/PS/37 |
| Serum | Folate | Roche Cobas 601 – competitive chemiluminescent immunoassay – Roche reagent SOP S/S/115 Folate |
| Plasma/Serum | Follicle Stimulating Hormone | Roche Cobas 601 –sandwich chemiluminescent immunoassay– Roche reagent SOP S/S/F/089 |
| Plasma/Serum | Growth Hormone | Roche Cobas 601 –sandwich chemiluminescent immunoassay– Roche reagent SOP S/S/G/097 |
| Plasma/Serum | Luteinising Hormone | Roche Cobas 601 –sandwich chemiluminescent immunoassay– Roche reagent SOP S/S/L/091 |
| Serum | Parathyroid Hormone | Roche Cobas 601 –sandwich chemiluminescent immunoassay– Roche reagent SOP S/S/P/099 |
| Plasma/Serum | Cortisol | Roche Cobas 601 –competitive chemiluminescent immunoassay– Roche reagent SOP S/S/C/088 |
| Serum | Vitamin B12 | Roche Cobas 601 – competitive chemiluminescent immunoassay – Roche reagent SOP S/S/114 Vitamin B12 |



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| Blood | Glycated Haemoglobin A1c (HbA1c) | Roche Cobas 501 turbidimetric inhibition immunoassay – Roche Reagent SOP S/S/H/025 |
| Urine | Microalbumin | Roche Cobas 501 immunoturbidimetric– Roche Reagent SOP S/S/M/087 |
| Lithium Heparin Plasma | D-Lactate | Roche Cobas 501 – megazyme enzymatic absorbance of NADH SOP DOC353 |
| Serum | Serum Haptoglobin Quantitation | Roche Cobas 501 – immunoturbidimetric assay SOP BSAC/PS/86 |
| Sweat | Chloride -Sweat | Collection -pilocarpine iontophoresis using Webster sweat inducer Collected via Wescor macroduct sweat collection system SOP BSAC/PS/21 Analysis Sherwood 926S Chloride Analyser MK II via Coulometric titration BSAC/PS/10 |
| Sweat | Sweat Conductivity | Westcor sweat check conductivity meter conductivity BSAC/PS/10 |
| Plasma/ Serum / Urine | Osmolality | Vitech 3320 Freezing Point Osmometer: SOP S/S/O/033 |
| Faeces | Detection of occult blood | Hema screen – guaiac peroxidase colour change BSAC/PS/11 |



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

Birmingham Women's and Children's NHS Foundation Trust

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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>Biochemistry examinations to assist in clinical investigations (cont'd)</u> | Procedures documented in manufacturer's equipment manuals in conjunction with documented in-house procedures by the following methods: |
| Blood | Detection of Immunosuppressants: Tacrolimus Sirolimus Ciclosporin | LC/MS/MS Waters Xevo TQD 2 SOP BSSC/PS/1 |
| Blood | Detection of Immunosuppressants: Tacrolimus Sirolimus Ciclosporin | LC/MS/MS Waters Xevo TQ-s Micro System SOP S/S/I 109 |
| Lithium Heparin Plasma | Ammonia | Fujifilm Dri-Chem System XN10N Dry-Slide Colourimetric SOP BSAC/PS/39 |
| END | | |