


# Schedule of Accreditation

issued by

## United Kingdom Accreditation Service

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

|   |   |   |
|---|---|---|
| <br><b>8091</b><br>Accredited to<br>ISO 15189:2012 | <b>Sheffield Teaching Hospitals NHS Foundation Trust</b>  |   |
|   | Issue No: 009 Issue date: 06 September 2024   |   |
|   | <b>Haematology Department</b><br>Sheffield Childrens Hospital<br>Western Bank<br>Sheffield<br>S10 2TH<br>United Kingdom | <b>Contact: Daniel Firth</b><br>Tel: +44 (0)1143053885<br>E-Mail: <a href="mailto:scn-tr.pdg.qualityteam@nhs.net">scn-tr.pdg.qualityteam@nhs.net</a><br>Website: <a href="http://www.sheffieldchildrens.nhs.uk/our-services/laboratory-medicine/">www.sheffieldchildrens.nhs.uk/our-services/laboratory-medicine/</a> |

**Testing performed at the above address only**

| Location details   | Activity  |
|--|---|
| Sheffield Childrens Hospital<br>Western Bank<br>Sheffield<br>S10 2TH | Local contact<br>Daniel Firth<br><br>Phlebotomy |



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### Sheffield Teaching Hospitals NHS Foundation Trust - Paediatric Haematology

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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>Haematology examination activities for the purposes of clinical diagnosis:</u>  | Documented procedures as specified below:  |
| EDTA Whole Blood                                  | Blood Count-<br><br>Full blood count( Red blood cells, White blood cells, Hb, MCH, MCHC, MCV, HCT, , Neutrophils, Lymphocytes, Monocytes, Basophils, Eosinophils, Platelets) Reticulocytes<br>Nucleated Cell count | SOP's 1121 using the Siemens Advia 2120i   |
| CSF   | Red blood cell, white blood cell counts<br><br>Morphology-   | SOP 1122 using siemens Advia 2120i   |
| Blood/ Bone Marrow Aspirate/CSF cytopsin staining | Blood film assessment<br>Fluid cytology/cell count (blood film)  | SOP 1155 & 1152 using non-automated microscopical processes using Hematek 3000 slide stainer |
| EDTA Whole Blood                                  | Screening and detection of malarial parasites by thin blood film   | SOP 1155 using non-automated microscopical processes using Hematek slide stainer             |
| EDTA Whole Blood                                  | Malaria pLDH and HRP2 antigens   | SOP's 1155 & 1155a using Apacor CareUS Malaria Rapydtest                                     |



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| HUMAN BODY FLUIDS (cont'd) | <u>Haematology examination activities for the purposes of clinical diagnosis (cont'd):</u>  |  |
| Citrated Plasma            | Coagulation-<br><br>Coagulation screen (PT,APTT,cFib) and additional testing as required (APTT50, PT50, TT, Reptilase time)<br>D-Dimer<br>INR<br>APTT Ratio<br>Factor diagnostic and therapeutic monitoring assays: II,V,VII, VIII, IX,X,XI,XII,VWF antigen and activity.<br>Factor VIII /inhibitor<br>Factor IX /inhibitor<br>Heparin monitoring by Anti Xa<br>Lupus anticoagulant | SOPs 1212, 1212b, 1253e,f, f1,g,h,k, 1253e2, 1253fa using the IL ACL TOP 550 |
| EDTA Whole Blood           | Flow Cytometry-<br><br>CD34 count<br>Lymphocyte subsets (CD3/CD4/CD8/CD4/CD19/CD56)<br>HS diagnosis   | SOPs 1409, 1444, and 1416, using the Beckman Coulter FC500 Flow Cytometer.   |
| EDTA Whole Blood           | Erythrocyte Sedimentation Rate (ESR)  | SOP 1153b using the ESR Stat plus 180.                                       |
| EDTA Plasma                | Infectious Mononucleosis (IM) Screening   | SOP 1154 using non –automated Biokit commercial kit.                         |
| EDTA Whole Blood           | Sickle Screen (Sickle Solubility test)  | SOP 1321 using non-automated in-house reagents.                              |



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| HUMAN BODY FLUIDS (cont'd) | <u>Haematology examination activities for the purposes of clinical diagnosis (cont'd):</u>   |   |
| EDTA Whole Blood           | Haemoglobinopathy analysis by detection of-<br>Haemoglobin variants F, S & C.<br>Quantitation of HbF%, and HbS%  | SOP 1329 using the BioRad D-10 HPLC.  |
| EDTA Whole Blood           | Red Blood Cell Enzymes<br>G6PD screen  | SOP 1311 using non-automated fluorescent spot in-house reagents   |
| EDTA Whole Blood           | <u>Blood Transfusion examination activities for the purpose of clinical diagnosis</u><br><br>Blood Groups ABO and RhD systems:<br>O RhD positive<br>A RhD positive<br>B RhD positive<br>AB RhD positive<br>AB RhD negative<br>A RhD negative<br>B RhD negative<br>O RhD negative   | Documented procedures as described below:<br><br>SOP's 1600 & 1618b using the CAT Diamed Card System and Diamed Card Reader DG54 non-automated process. |
| EDTA Plasma                | Antibody Screen:<br>Rh blood group antibodies: anti-C, anti-c, anti-D, anti-E, anti-e<br>Kell blood group antibodies: anti-K, anti-k,<br>Kidd blood group antibodies: anti-Jk <sup>a</sup> , anti-Jk <sup>b</sup><br>Duffy blood group antibodies: anti-Fy <sup>a</sup> , anti-Fy <sup>b</sup><br>MNS blood group antibodies: anti-M, anti-N, anti-S, anti-s<br>Lewis blood group antibodies: anti-Le <sup>a</sup> , anti-Le <sup>b</sup><br>Lutheran blood group antibodies: – anti-Lua, anti-Lub<br>P blood group antibodies: anti- P1 | SOP 1601 using the CAT Diamed Card System non-automated process.  |



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| HUMAN BODY FLUIDS (cont'd) | <u>Blood Transfusion examination activities for the purpose of clinical diagnosis</u>  |   |
| EDTA Plasma                | Antibody ID – panel identification of the following red cell systems (includes enzyme panel):<br>Rh – anti-C, antiD, anti-E, anti-c, anti-e,<br>Kell – anti-K, anti-k,<br>Duffy – anti-Fy <sup>a</sup> , anti-Fy <sup>b</sup><br>MNSs – anti-M, anti-N, anti-S,anti-s<br>Lutheran – anti-Lua and anti-Lub<br>Kidd – anti-Jk <sup>a</sup> , anti-Jk <sup>b</sup><br>Lewis – anti-Le <sup>a</sup> , anti-Le <sup>b</sup> | SOP 1604 using the CAT Diamed Card System non-automated process           |
| EDTA Plasma                | Isohaemagglutinins   | SOP 1607 using the CAT Diamed Card System non-automated process.          |
| EDTA Whole Blood           | Direct Coombs Test (DCT)   | SOP 1605 using the Diamed DC Screening Card System non-automated process. |
| EDTA Plasma                | Serological Crossmatch   | SOP 1602 using Diamed Liss/Coombs cards                                   |
| EDTA Plasma                | Emergency crossmatch   | SOP 1603 using Diamed Liss/Coombs cards                                   |
| END                        |  |   |