


Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

| | | |
|---|--|--|
|  <p>UKAS MEDICAL 8098</p> <p>Accredited to ISO 15189:2022</p> | <p>The Common Services Agency (commonly known as National Services Scotland) acting through the Scottish National Blood Transfusion Service.</p> <p>Issue No: 013 Issue date: 17 July 2025</p> | |
| | <p>SNBTS Patient Services Laboratories Gartnavel General Hospital 25 Shelley Road Glasgow G12 0XB</p> | <p>Contact: Anne Thomson Tel: +44 (0) 141 433 5879 E-Mail: anne.thomson@nhs.scot Website: www.scotblood.co.uk</p> |
| <p>Testing performed by the Organisation at the locations specified below</p> | | |

Locations covered by the organisation and their relevant activities

Laboratory locations:

| Location details | Activity | Location code |
|--|---|---|
| <p>Address</p> | <p>Local Contact</p> | |
| <p>SNBTS Patient Services Laboratory Gartnavel General Hospital 25 Shelley Road Glasgow G12 0XB</p> | <p>Suzanne Rae Tel: +44 (0) 0141 433 5869 E-Mail: suzanne.rae@nhs.scot</p> | <p>Blood Group Serology Blood Group Phenotyping Anti-c and Anti D quantitation FMH Red Cell Genotyping</p> <p>A</p> |
| <p>SNBTS Patient Services Laboratory Raigmore Hospital Old Perth Road Inverness IV2 3UJ United Kingdom</p> | <p>Suzanne Rae Tel: +44 (0) 0141 433 5869 E-Mail: suzanne.rae@nhs.scot</p> | <p>Blood Group Serology Blood Group Phenotyping</p> <p>B</p> |
| <p>SNBTS Patient Services Laboratory Royal Infirmary Edinburgh Little France Crescent EH16 4SA</p> | <p>Marion Mathie Tel: +44 (0)141 433 5856 Email: marion.mathie@nhs.scot</p> | <p>Blood Group Serology Blood Group Phenotyping HLA antigens/antibodies HPA antigens/antibodies Flow crossmatch CD34 enumeration</p> <p>C</p> |
| <p>SNBTS Patient Services Laboratory Aberdeen Royal Infirmary Foresterhill Road Aberdeen AB25 2ZW</p> | <p>Marion Mathie Tel: +44 (0) 141 433 5856 Email: marion.mathie@nhs.scot</p> | <p>Blood Group Serology Blood Group Phenotyping</p> <p>D</p> |
| <p>SNBTS Patient Services Laboratory Level 8 Ninewells Hospital Dundee DD1 9SY</p> | <p>Joanna Melson Tel: +44 (0) 141 433 5836. Avaya Ext #5836 E-Mai: Joanna.melson3@nhs.scot</p> | <p>Blood Group Serology Blood Group Phenotyping</p> <p>E</p> |



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Site activities performed away from the locations listed above:

| Location details | Activity |
|---|--|
| Pharmacy Room Broadford Hospital NHS Highland Broadford, Isle of Skye IV29 9AA | Blood Issue Fridge No testing occurs on this site, blood storage only |
| Accident & Emergency, ITU/Theatres Raigmore Hospital Old Perth Road Inverness IV2 3UJ United Kingdom | Blood Issue Fridge No testing occurs on this site, blood storage only |
| Accident and Emergency Royal Infirmary Edinburgh Little France Crescent EH16 4SA | Blood Issue Fridge No testing occurs on this site, blood storage only |
| Obstetrics Theatre Royal Infirmary Edinburgh Little France Crescent EH16 4SA | Blood Issue Fridge No testing occurs on this site, blood storage only |
| Main theatre/recovery Royal Infirmary Edinburgh Little France Crescent EH16 4SA | Blood Issue Fridge No testing occurs on this site, blood storage only |
| Accident and Emergency Aberdeen Royal Infirmary Aberdeen AB25 2ZW | Blood Issue Fridge No testing occurs on this site, blood storage only |
| G Theatres Aberdeen Royal Infirmary Aberdeen AB25 2ZW | Blood Issue Fridge No testing occurs on this site, blood storage only |



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|--|--|
| Emergency Care Centre Aberdeen Royal Infirmary, Aberdeen AB25 2ZW | Blood Issue Fridge No testing occurs on this site, blood storage only |
| Obstetrics theatre Raigmore Hospital Old Perth Road Inverness IV2 3UJ | Blood Issue Fridge No testing occurs on this site, blood storage only |
| Stracathro SST-R Fridge Stracathro Hospital Brechin DD9 7QA | Blood Issue Fridge No testing occurs on this site, blood storage only |
| Royal Aberdeen Children's' Hospital Aberdeen Royal Infirmary, Aberdeen AB25 2ZW | Blood Issue Fridge No testing occurs on this site, blood storage only |
| Aberdeen Maternity Hospital Aberdeen Royal Infirmary, Aberdeen AB25 2ZW | Blood Issue Fridge No testing occurs on this site, blood storage only |
| Woodend Hospital Eday Road Aberdeen AB15 6XS | Blood Issue Fridge No testing occurs on this site, blood storage only |
| BMI Albyn Hospital 21 – 24 Albyn Place Aberdeen AB10 1RW | Blood Issue Fridge No testing occurs on this site, blood storage only |
| Main Theatres Ninewells Hospital Dundee DD1 9SY | Blood Issue Fridge No testing occurs on this site, blood storage only |



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|---|--|
| Accident and Emergency Ninewells Hospital Dundee DD1 9SY | Blood Issue Fridge No testing occurs on this site, blood storage only |
| Royal Victoria Hospital Jedburgh Road Dundee DD2 1SP | Blood Issue Fridge No testing occurs on this site, blood storage only |
| Surgical Unit Fridge Stracathro Hospital Brechin DD9 7QA | Blood Issue Fridge No testing occurs on this site, blood storage only |
| Arbroath Infirmary Rosemount Road Arbroath DD11 2AT | Blood Issue Fridge No testing occurs on this site, blood storage only |



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DETAIL OF ACCREDITATION

| Materials/Products tested | Type of test/Properties measured/Range of measurement | Standard specifications/ Equipment/Techniques used | Location Code |
|---------------------------|--|--|---|
| HUMAN BODY FLUIDS | <u>Blood Transfusion testing for the purpose of clinical diagnosis'</u> | In house documented methods using; - | |
| Whole Blood | <p>Blood Grouping</p> <ul style="list-style-type: none"> • A B O • Rh: • C^w, C, c, D, E, e, • Kell • K, k, Kp^a, Kp^b • Kidd: Jk^a, Jk^b, • Duffy: Fy^a, Fy^b, • Lutheran: Lu^a, Lu^b • MNS: M, N, S, s, • Lewis: Le^a, Le^b, • P₁: | <p>Fully automated Grifols Erytra and Eflexis analysers (Column Agglutination) by electronic detection of interface SOP NATS CLS 158 NATS CLS 159</p> <p>Manual Grifols (Gel column agglutination) Macroscopic detection of interface Technical manual SOP NATS CLS 038</p> <p>Manual tube techniques- macroscopic examination Technical manual SOP NATS CLS 038</p> | <p>A,B,C,D ,E</p> <p>A,B,C,D ,E</p> <p>A,B,C,D ,E</p> |



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| <p>HUMAN BODY FLUIDS (cont'd)</p> <p>Whole Blood</p> | <p><u>Blood Transfusion testing for the purpose of clinical diagnosis'</u> (cont'd)</p> <p>Blood Group Genotyping</p> <ul style="list-style-type: none"> • ABO • CDE • D Weak • Kell, Kidd, Duffy • MNS <p>Rare Antigens</p> | <p>In house documented methods using; -</p> <p>DNA extraction using Qiagen EZ1 Advanced SOP NATS CLS 145</p> <p>Manual DNA extraction using Fujifilm Quickgene Whole Blood Kits</p> <p>DNA quantification using Nanodrop Lite SOP NATS CLS 149</p> <p>PCR genotyping using Applied Biosystems Veriti Thermal Cyclers and Inno-Train RBC Fluogene analyser and Fluovista reader.</p> <p>Using Fluogene RBC Kits: ABO Basic CDE Dweak vERYfy Rare</p> <p>SOP NATS CLS 148</p> | <p>A</p> |



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| HUMAN BODY FLUIDS (cont'd) | <u>Blood Transfusion testing for the purpose of clinical diagnosis'</u> (cont'd) | In house documented methods using; - | |
| Whole blood | Antibody Identification <ul style="list-style-type: none"> • AB • Rhesus: anti-C^w, anti-C, anti-c, anti-D, anti-E, anti-e, • Kell system: anti-K, anti-k, anti-Kp^a, • Kidd: anti-Jk^a, anti-Jk^b, • Duffy: anti-Fy^a, anti-Fy^b, • Lutheran: anti-Lu^a, • MNS: anti-M, anti-N, anti-S, anti-s, • Lewis: anti-Le^a, anti-Le^b, • P₁: anti-P | Using 3 cell screen and additional panels Fully automated Grifols Erytra and Eflexis analysers (Column Agglutination) by electronic detection of interface SOP-NATS CLS 058 Manual Manual Grifols (Gel column agglutination) Macroscopic detection of interface Technical manual NATS CLS 038 Manual tube technique-macroscopic detection of agglutination Technical manual NATS CLS 038 | A,B,C,D ,E A,B,C,D ,E A,B,C,D ,E |
| | Antibodies to rare red cell antigens | | C |



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| HUMAN BODY FLUIDS (cont'd) | <u>Blood Transfusion testing for the purpose of clinical diagnosis'</u> (cont'd) | In house documented methods using; - | |
| Eluate prepared from patient's blood sample | Antibody Investigation <ul style="list-style-type: none"> Rh: anti-C^w, anti-C, anti-c, anti-D, anti-E, anti-e, Kell system: anti-K, anti-k, anti-Kp^a, Kidd: anti-Jk^a, anti-Jk^b, Duffy: anti-Fy^a, anti-Fy^b, Lutheran: anti-Lu^a, MNS: anti-M, anti-N, anti-S, anti-s Lewis: anti-Le^a, anti-Le^b Anti P1 | Elution of Antibodies SOP – NATS CLS 109 Manual Grifols cards macroscopic detection of interface SOP – NATS CLS 038 And Manual tube techniques-macroscopic examination SOP – NATS CLS 038 | A,B,C,D ,E A.B.C.D .E |
| Absorbed Plasma | Antibody Identification <ul style="list-style-type: none"> Rh: anti-C^w, anti-C, anti-c, anti-D, anti-E, anti-e, Kell system: anti-K, anti-k, anti-Kp^a, Kidd: anti-Jk^a, anti-Jk^b, Duffy: anti-Fy^a, anti-Fy^b, Lutheran: anti-Lu^a, MNS: anti-M, anti-N, anti-S, anti-s, Lewis: anti-Le^a, anti-Le^b, P₁: anti-P1 | Allo-absorption of antibodies NAT CLS 048 Manual Grifols cards macroscopic examination SOP – NATS CLS 038 or Manual tube techniques-macroscopic examination SOP – NATS CLS 038 | A,B,C,D ,E A,B,C,D ,E |



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| HUMAN BODY FLUIDS (cont'd) | <u>Blood Transfusion testing for the purpose of clinical diagnosis'</u> (cont'd) | | |
| Whole Blood | Compatibility testing of patients' plasma with donor cells | In house documented methods using; - Fully automated Grifols Erytra and Eflexis (Column Agglutination) by electronic detection of interface SOP – NATS CLS 158 NATS CLS 159 | A,B,C,D ,E |
| | | Manual Grifols cards macroscopic detection of interface SOP – NATS CLS 038 | A,B,C,D ,E |
| | | Manual procedures by tube technology-red cell agglutination, macroscopic visual detection NATS CLS 038 | A,B,C,D ,E |
| | | Electronic Issue NATS CLS 048 | |
| | Direct Anti Human Globulin | Fully automated Grifols Erytra and Eflexis (Column Agglutination) by electronic detection of interface SOP – NATS CLS 158 NATS CLS 159 | A,B,C,D ,E |
| | | Manual procedures by tube and card technology and visual detection. SOP – NATS CLS 038 | A, B, C, D, E |



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| HUMAN BODY FLUIDS (cont'd) | <u>Blood Transfusion testing for the purpose of clinical diagnosis'</u> (cont'd) | | |
| Plasma | Antibody Quantification (>0.1iu/ml) <ul style="list-style-type: none"> • Anti D • Anti c | AntiQuant Mark 3 Photometric detection of Haemagglutination lysate NATS CLS 136 | A |
| Venous Blood; plasma | Antibody titration <ul style="list-style-type: none"> • Rh: anti-C^w, anti-C, anti-c, anti-D, anti-E, anti-e, • Kell system: anti-K, anti-k, anti-Kp^a, • Kidd: anti-Jk^a, anti-Jk^b, • Duffy: anti-Fy^a, anti-Fy^b, • anti-M, anti-N, anti-S, anti-s • anti-Lua, anti-Lub | Titration techniques by serial dilution of plasma red cell agglutination, macroscopic visual detection SOP: NATS CLS 109 | B |



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| HUMAN BODY FLUIDS (cont'd) | <u>Blood Transfusion testing for the purpose of clinical diagnosis'</u> (cont'd) | In house documented methods using; - | |
| Venous whole blood | Kleihauer for foetal/maternal bleed estimation | Kleihauer testing by acid elution technique using the Clintech kit Microscopy Key SOP NATS CLS 129 | B, C, D and E |
| Whole Blood | Foetal/maternal bleed estimation | BD FACSLyric Flow Cytometry System Flow cytometry- cell count SOP NATS CLS 143 SOP NATS CLS 144 | A |



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| HUMAN BODY FLUIDS (cont'd) | <u>Histocompatibility and Immunogenetics testing for the purpose of clinical diagnosis</u> | Using In house documented procedure and manufacturer's instructions | C |
| Whole Blood, Spleen and Lymph Nodes | | DNA extraction using QIAGEN EZ-1 automated extractor. NATS CLS H&I 045 NATS CLS H&I 031 | C |
| Whole Blood, Spleen and Lymph Nodes | HLA: HLA class I and II typing (HLA-A, B, C, DR, DQ, DP) | Real Time PCR using Roche Lightcycler 480 and LinkSeq HLA typing kits, LinkSeq HLA-B27 typing and Linkage SureTyper software for analysis NATS CLS H&I 028 NATS CLS H&I 029 | C |
| Whole Blood, Spleen and Lymph Nodes | <u>Human Leucocyte Antigen (HLA) Typing</u> | Standard-SSP (Innotrain) SOP – NATS CLS H&I 039 (Innotrain) NATS CLS H&I 046 (Innotrain) NATS CLS H&I 030 (Orerup) | C |
| Whole Blood, Spleen and Lymph Nodes | <u>Human Leucocyte Antigen (HLA) Typing</u> | <u>AllType FASTplex Next Generation Sequencing on the Illumina MiSeq Sequencing Platform.</u> <u>SOP: NATS CLS H&I 057</u> <u>NATS CLS H&I 058</u> <u>NATS CLS H&I 059</u> | C |



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| HUMAN BODY FLUIDS (cont'd) | <u>Histocompatibility and Immunogenetics testing for the purpose of clinical diagnosis</u> (cont'd) | Using In house documented procedure and manufacturer's instructions | C |
| Serum | HLA class I and II antibody screening | LABScreen mixed (One Lambda) using Luminex X-Map NATS CLS H&I 009 NATS CLS H&I 004 NATS CLS H&I 005 NATS CLS H&I 012 | C |
| | HLA class I and II antibody identification | Single Antigen Bead Testing using Luminex X-Map NATS CLS H&I 009 NATS CLS H&I 004 NATS CLS H&I 005 NATS CLS H&I 011 NATS CLS H&I 012 NATS CLS H&I 013 NATS CLS H&I 014 | C |
| Whole blood | Human Platelet Antigen (HPA) | PCR-SSP Applied Bioscience Veriti™ NATS CLS H&I 001 NATS CLS H&I 033 NATS CLS H&I 046 | C |
| | Human Platelet Antigen (HPA) antibody screening | PAK Lx using Luminex platform. NATS CLS H&I 017 NATS CLS H&I 004 | C |



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| HUMAN BODY FLUIDS (cont'd) | <u>Histocompatibility and Immunogenetics testing for the purpose of clinical diagnosis</u> (cont'd) | Using In house documented procedure and manufacturer's instructions | C |
| Whole blood | CD34 enumeration | FACS Lyric Flow Cytometer NATS CLS H&I 064 NATS CLS H&I 066 | C |
| | Flow Cytometry donor-recipient crossmatching | SOP – NATS CLS H&I 060 NATS CLS H&I 066 | C |
| END | | | |