


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 15189:2012</p>	<p>The Common Services Agency (commonly known as National Services Scotland) acting through the Scottish National Blood Transfusion Service.</p> <p>Issue No: 007 Issue date: 04 November 2021</p>	
	<p>SNBTS Patient Services Laboratories Gartnavel General Hospital 25 Shelley Road Glasgow G12 0XB</p>	<p>Contact: Gillian McCarrol Tel: +44 (0) 0141 433 5849 E-Mail: gillian.mccarrol@nhs.net 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 SNBTS Patient Services Laboratory Gartnavel General Hospital 25 Shelley Road Glasgow G12 0XB</p> <p>Local contact Gillian McCarrol Tel: +44 (0) 0141 433 5849 E-Mail: gillian.mccarrol@nhs.net</p>	<p>Blood Group Serology Blood Group Phenotyping Anti-c and Anti D quantitation FMH Red Cell Genotyping</p>	A
<p>Address SNBTS Patient Services Laboratory Raigmore Hospital Old Perth Road Inverness IV2 3UJ United Kingdom</p> <p>Local contact Gillian McCarrol Tel: +44 (0) 0141 433 5849 E-Mail: gillian.mccarrol@nhs.net</p>	<p>Blood Group Serology Blood Group Phenotyping</p>	B
<p>Address SNBTS Patient Services Laboratory Royal Infirmary Edinburgh Little France Crescent EH16 4SA</p> <p>Local contact Symon Lockhart Tel: +44 (0)1312 427518 Email: Symon.lockhart@nhs.net</p>	<p>Blood Group Serology Blood Group Phenotyping HLA antigens/antibodies HPA antigens/antibodies Flow crossmatch CD34 enumeration</p>	C
<p>Address SNBTS Patient Services Laboratory Aberdeen Royal Infirmary Foresterhill Road Aberdeen AB25 2ZW</p> <p>Local contact Neil Fraser Tel: +44 (0)1224 812485 Fax: +44 (0)1224 662200 e-mail: Neil.fraser@nhs.net</p>	<p>Blood Group Serology Blood Group Phenotyping</p>	D
<p>Address SNBTS Patient Services Laboratory Level 8 Ninewells Hospital Dundee DD1 9SY</p> <p>Local contact Anne Thomson Tel: +44 (0) 141 433 5879 E-Mail: anne.thomson2@nhs.net</p>	<p>Blood Group Serology Blood Group Phenotyping</p>	E



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Site activities performed away from the locations listed above:

Location details	Activity
Pharmacy Room MacKinnon Memorial 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
Emergency Care Centre Aberdeen Royal Infirmary, Aberdeen AB25 2ZW	Blood Issue Fridge No testing occurs on this site, blood storage only



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Location details	Activity
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
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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Location details	Activity
Whitehills Hospital Station Road Forfar DD8 3DY	Blood Issue Fridge No testing occurs on this site, blood storage only
BMI Healthcare Fernbrae Hospital 329 Perth Road DD2 1LJ	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 Whole Blood	<p><u>Blood Transfusion testing</u> for the purpose of clinical diagnosis'</p> <p>Blood Grouping</p> <ul style="list-style-type: none"> • A B • Rhesus: • 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>In house documented methods using;-</p> <p>Fully automated BioRad- IH-1000 analyser (Column Agglutination) by Electronic detection of interface SOP NATS CLS 058</p> <p>Manual BioRad Gel column agglutination) Macroscopic detection of interface Technical manual NATS CLS 038</p> <p>Manual tube techniques- macroscopic examination Technical manual NATS CLS 038</p>	A,B,C,D, E



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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></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>Innotrain PCR-SSP and Gel-electrophoresis by electronic Gel Image SOP-GLAS CLS 5566 Innotrain RBC kits</p> <p>DNA extraction using Fujifilm Quickgene Whole Blood Kits</p> <p>DNA quantification using Nanodrop Lite</p> <p>PCR genotyping-using Applied Biosystem Veriti Thermal Cyclers and Inno-Train RBC FluoGene analyser and Fluovista reader. Using kits;-</p> <ul style="list-style-type: none"> •RBC-Ready Gene ABO Kit •RBC-Ready Gene CDE Kit •RBC-Ready Gene weak D Kit •RBC-Ready Gene Kell, Kidd, Duffy Kit (vERYfy) •RBC-Ready Gene MNS Kit •RBC-Ready Gene Rare ID Kit <p>SOP GLAS CLS 4588</p>	<p>A</p>



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HUMAN BODY FLUIDS (cont'd) Whole blood	<p><u>Blood Transfusion testing for the purpose of clinical diagnosis' (cont'd)</u></p> <p>Antibody Identification</p> <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 <p>Antibodies to rare red cell antigens</p>	<p>In house documented methods using:-</p> <p>Using 3 and 11 cell panels</p> <p>Fully automated BioRad- IH-1000 analyser (Column Agglutination) by Electronic detection of interface SOP-NATS CLS 058</p> <p>Manual BioRad Gel column agglutination) Macroscopic detection of interface Technical manual NATS CLS 038</p> <p>Manual tube technique- macroscopic detection of agglutination Technical manual NATS CLS 038</p>	<p>A,B,C,D, E</p> <p>C</p>



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HUMAN BODY FLUIDS (cont'd) Eluate prepared from patient's blood sample	<u>Blood Transfusion testing for the purpose of clinical diagnosis' (cont'd)</u> 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 	In house documented methods using:- Elution of Antibodies SOP – NATS CLS 048 Manual BioRad cassettes-macroscopic detection of interface SOP – NATS CLS 038 And Manual tube techniques-macroscopic examination SOP – NATS CLS 038	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 BioRad cassettes-macroscopic examination SOP – NATS CLS 038 or Manual tube techniques-macroscopic examination SOP – NATS CLS 038	B,C,D, E



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN BODY FLUIDS (cont'd)	<u>Blood Transfusion testing for the purpose of clinical diagnosis'</u> (cont'd)	In house documented methods using:-	A,B,C,D, E
Whole Blood	Compatibility testing of patients plasma with donor cells	Fully automated BioRad IH1000 (Column Agglutination) by Electronic detection of interface SOP – NATS CLS 058 Manual BioRad cassettes- macroscopic detection of interface SOP – NATS CLS 038 Manual procedures by tube technology-red cell agglutination, macroscopic visual detection NATS CLS 038	
	Direct Anti Human Globulin	Electronic Issue NATS CLS 048 Fully automated BioRad IH1000 (Column Agglutination) by Electronic detection of interface SOP – NATS CLS 058 Manual procedures by tube technology and visual detection. SOP – NATS CLS 038	A,B,C,D, and E



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Plasma	Antibody Quantification (>0.1iu/ml) <ul style="list-style-type: none"> • Anti D Anti c	AntiQuant Mark 3 Photometric detection of Haemagglutination lysate SOP GLAS CLS 4213	A
Venous Blood; plasma	Antibody titration <ul style="list-style-type: none"> • 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, • 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 038,	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)	In house documented methods using:-	
Venous Blood; plasma (cont'd)	Antibody titration (cont'd) <ul style="list-style-type: none"> • Anti-A • Anti-B 	SOP 455007	
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	Using BRAD3 FITC Anti-D and AEVZ negative control. Becton Dickinson FACS Canto II Flow cytometry- cell count SOP GLAS CLS 4212	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		DNA extraction using QIAGEN EZ-1 automated extractor. SOP-12 462 039	
Whole Blood (DNA)	HLA: HLA class I and II typing (HLA-A,B,C,DR,DQ,DP)	PCR-SSO using Luminex X-Map SOP – 15464012, 15464011, 06463034, 08462033, 12462039	
		Using Real Time PCR using Roche Lightcycler 480 and Linkseq HLA typing kits (SOP 17462043)and Linkage SureTyper software for analysis (SOP 17 462 044)	
Serum	HLA class I and II antibody screening	Standard-SSP (Innotrain) SOP – 05462027, 14462041, 08462033, 12462039	
	HLA class I and II antibody identification	LABScreen mixed (One Lambda) using Luminex X-Map SOP – 06463036, 06463034, 06463035	
Whole blood	Human Platelet Antigen (HPA)	LABScreen Single Antigen (One Lambda) using Luminex X-Map SOP – 06463036, 06463034, 06463035	
	Human Platelet Antigen (HPA) antibody screening	PCR-SSP Applied Bioscience Veriti™ SOP: NATS CLS H&I 001	
		PAK Lx using Luminex platform SOP: NATS CLS 099	



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HUMAN BODY FLUIDS (cont'd) Whole blood	<u>Histocompatibility and Immunogenetics testing for the purpose of clinical diagnosis cont</u> CD34 enumeration Flow Cytometry donor-recipient crossmatching	Using In house documented procedure and manufacturer's instructions FACS Canto II Flow Cytometer SOP – 11462036, 09463042, 14461008 SOP – 09463043, 15462042	C
END			