Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

9092

Accredited to ISO 15189:2022

Synnovis Analytics LLP

Issue No: 024 **Issue date:** 29 June 2026

Department of Haematological Medicine
2nd Floor
Friars Bridge Court
41-43 Blackfriars Road
London
SE1 8NZ
United Kingdom

Contact: Paulo Leite
Tel: +44 (0) 203 299 7685
E-Mail: paulo.leite@synnovis.co.uk
Website: www.synnovis.co.uk

Testing performed by the Organisation at the locations specified below

Locations covered by the organisation and their relevant activities

Laboratory locations:

Location details		Activity	Location code
Address Department of Haematological Medicine Ground Floor, Bessemer Wing King's College Hospital Denmark Hill London SE5 9RS	**Local contact** Paulo Leite (as above)	Haematology Molecular Haematology Haemoglobinopathies Blood Transfusion Coagulation	KCH
Blackfriars Hub Laboratory 2nd Floor Friars Bridge Court 41 Blackfriars Road London SE1 8NZ	Paulo Leite (as above)	Blood Sciences Laboratory: Haematology Haemoglobinopathies	HUB
Pathology Department South Wing, 1st Floor Princess Royal University Hospital Orpington Kent BR6 8ND	Paulo Leite (as above)	Blood Sciences Laboratory: Haematology Blood Transfusion Storage & issue of blood & blood products	PRUH
Pathology Department Royal Brompton Hospital Sydney Street London SW3 6NP	Blood Sciences and Blood Transfusion Luke Woodford Luke.Woodford@synnovis.co.uk	Haematology Blood Transfusion Blood Transfusion Issue Fridges located within laboratory, Adult ICU, theatres and paediatric ICU Issue of Blood and Blood Products	RBH
Pathology Building Harefield Hospital Hill End Road Harefield UB9 6JH	Blood Sciences and Blood Transfusion Jey Visuvanathan J.Visuvanathan@synnovis.co.uk	Haematology Blood Transfusion Blood Transfusion Issue Fridges located within laboratory and ITU/ theatres Issue of Blood and Blood Products	HH

Location details		Activity	Location code
Blood Sciences Laboratory 5th Floor, North Wing St. Thomas' Hospital Westminster Bridge Road London SE1 7EH	Tim Maggs tel: 0207-1884774 Saidat Turawa tel: 0207-1887188 (ext. 546217974) Yvonne Daniel tel: 0207-1889247	Blood transfusion General Haematology Special Haematology inc. Flow Cytometry & Molecular Haematology	STH
Blood Sciences Laboratory 4th Floor Southwark Wing Guy's Hospital Great Maze Pond London SE1 9RT	Tim Maggs tel: 0207-1884774 Saidat Turawa tel: 0207-1887188 (ext. 546217974) Yvonne Daniel tel: 0207-1884781	Blood transfusion General Haematology Special Haematology inc. Flow Cytometry	GUY
Cancer Centre Guy's Hospital	Saidat Turawa (tel: as above)	Haematology: Full blood counts only	GCC

9092 **Accredited to ISO 15189:2022**	**Schedule of Accreditation** **issued by** **United Kingdom Accreditation Service** 2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK
	Synnovis Analytics LLP **Issue No:** 024 **Issue date:** 29 June 2026
Testing performed by the Organisation at the locations specified below	

Site activities performed away from the locations listed above:

Location details	Activity
King's College Hospital (Denmark Hill): • Emergency Department • Liver Theatre • Main Theatres • Nightingale Birth Centre (NBC) • Liver Unit ITU (LITU) • Centenary Wing • Harris Birthright (Windsor Walk) • Critical Care Unit • Guthrie Ward (X-ray) King's College Hospital (Orpington Site): • Orthopaedic Theatres	Storage & issue of blood & blood products only

DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location code
HUMAN TISSUES AND FLUIDS (cont'd)	Molecular haematology examinations for the purpose of clinical diagnosis	In house documented methods incorporating manufacturers' instructions as required	KCH
Amniotic Fluid Chorionic Villus Sample Cultured Amniocytes Dried Blood Spot Foetal Blood Formalin-Fixed Paraffin-Embedded (FFPE) samples Plasma Saliva Serum Whole blood		DNA Extraction, manual methods and automated using: QIAsymphony (blood) LP-HAE-PND105 Qiagen EZ1 LP-HAE-PND076 (foetal samples) LP-HAE-PND116 (saliva)	
Genomic DNA extracted in house from whole blood (unless stated otherwise for specified tests) or received as primary sample type		PCR amplification using any of (unless stated otherwise for specified tests): Applied Biosystems Veriti™ Thermal Cycler and: Veriti™ Thermal Cycler User Guide (PN 4375799) Rotor-Gene Q and: Rotor-Gene Q Operator manual 1.7.87 Eppendorf Mastercycler Nexus and: Eppendorf Mastercycler Nexus operating manual (2012)	
and DNA extracted from Saliva	Thrombophilia genetic analysis: Detection of three genetic variants affecting thrombophilia: Factor V Leiden Prothrombin C Methylene Tetrahydrofolate Reductase	RT PCR Allelic discrimination TaqMan assay LP-HAE-PND110	KCH
	Hereditary Haemochromatosis genetic analysis: Detection of the two common genetic variants in the HFE gene associated with hereditary haemochromatosis: HFE p.C282Y HFE p.H63D	RT PCR Allelic discrimination TaqMan assay LP-HAE-PND104	

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location code
HUMAN TISSUES AND FLUIDS (cont'd)	Molecular haematology examinations for the purpose of clinical diagnosis (cont'd)	In house documented methods incorporating manufacturers' instructions as required	
Genomic DNA extracted in house from whole blood (unless stated otherwise for specified tests) or received as primary sample type (cont'd)	Detection of large deletions and duplications in the HFE gene	Multiplex ligation-dependent probe amplification (MLPA) by PCR using: Eppendorf Mastercycler Nexus or Applied Biosystems Veriti™ Applied Biosystems 3500XL Genetic Analyser LP-HAE-PND117	KCH
	Alpha-1-antitrypsin deficiency genotyping:		
	Detection of two genetic variants in the SERPINA1 gene which are known to cause Alpha-1-antitrypsin deficiency: Z and S mutations	RT PCR machine allelic discrimination TaqMan assay LP-HAE-PND111	
	Gilbert's syndrome genetic analysis:		
	Homozygosity for the 7 repeat allele of the dinucleotide repeat region in the promoter of the UGT1A gene	Applied Biosystems 3500XL Genetic Analyser LP-HAE-PND071	

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location code
HUMAN TISSUES AND FLUIDS (cont'd)	Molecular haematology examinations for the purpose of clinical diagnosis (cont'd)	In house documented methods incorporating manufacturers' instructions as required	
Genomic DNA extracted in house from whole blood (unless stated otherwise for specified tests) or received as primary sample type (cont'd)			KCH
and DNA extracted from CVS	Pyruvate Kinase deficiency genetic analysis:		
	Detection of large deletions and duplications in the PKLR gene	MLPA by PCR using: Eppendorf Mastercycler Nexus or Applied Biosystems Veriti™ Thermal Cycler- Veriti™ Applied Biosystems 3500XL Genetic Analyser LP-HAE-PND117	
and DNA extracted from: Saliva Dried Blood Spot Amniotic Fluid CVS Cultured Amniocytes Foetal Blood	Haemoglobin variant genetic analysis:		KCH
	Detect of the most common HBB gene mutation known to cause Sickle cell disease: HbS and the haemoglobin variant: HbC	RT PCR Allelic discrimination TaqMan assay using: Rotor-Gene Q LP-HAE-PND039	
	Confirmation of HbS and HbC variants	Restriction fragment length polymorphism (RFLP) assay by PCR using: Eppendorf Mastercycler Nexus or Applied Biosystems Veriti™ and Agarose gel electrophoresis LP-HAE-PND013	
	Confirmation of the HbS mutation	Sanger Sequencing using: Applied Biosystems 3500XL Genetic Analyser LP-HAE-PND039	KCH

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location code
HUMAN TISSUES AND FLUIDS (cont'd) Genomic DNA extracted in house from whole blood (unless stated otherwise for specified tests) or received as primary sample type (cont'd) and DNA extracted from: Saliva	<u>Molecular haematology examinations for the purpose of clinical diagnosis</u> (cont'd) Detection of large deletions and duplications in the HBB, HBA1 and HBA2 genes Thalassaemia syndromes genetic analysis:	In house documented methods incorporating manufacturers' instructions as required MLPA by PCR and: Applied Biosystems 3500XL Genetic Analyser LP-HAE-PND117	KCH
Dried blood spots Amniotic fluid CVS Cultured amniocytes Fetal blood	Detection of common deletions in the HBA1 and HBA2 genes known to cause Alpha Thalassaemia Detection of single base changes and microlesions in the HBB, HBA1 and HBA2 genes that cause Thalassaemia syndromes Detection of large deletions and duplications in the alpha globin loci on chromosome 16 and the beta globin loci on chromosome 11	Gap PCR using: Eppendorf Mastercycler Nexus or Applied Biosystems Veriti™ Thermal Cycler and Agarose gel electrophoresis LP-HAE-PND052 Sanger Sequencing using: Applied Biosystems 3500XL Genetic Analyser LP-HAE-PND118 MLPA by PCR using: Eppendorf Mastercycler Nexus or Applied Biosystems Veriti™ Thermal Cycler Applied Biosystems 3500XL Genetic Analyser LP-HAE-PND117	

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location code
HUMAN TISSUES AND FLUIDS (cont'd)	Molecular haematology examinations for the purpose of clinical diagnosis (cont'd)	In house documented methods incorporating manufacturers' instructions as required	KCH
Genomic DNA extracted in house from whole blood (unless stated otherwise for specified tests) or received as primary sample type (cont'd)	Hereditary persistence of fetal haemoglobin (HPFH) genetic analysis:		
and DNA extracted from: Whole blood Saliva Dried Blood Spot	Detection of the most common deletional forms of HPFH caused by large deletions in the beta globin loci	MLPA by PCR using: Eppendorf Mastercycler Nexus or Applied Biosystems Veriti™ Thermal Cycler Applied Biosystems 3500XL Genetic Analyser LP-HAE-PND072	
	Confirmation of the deletional forms of HPFH	Gap PCR Eppendorf Mastercycler Nexus or Applied Biosystems Veriti™ Thermal Cycler and Agarose gel electrophoresis LP-HAE-PND072	
	Detection of single base changes and microlesions in the promoter regions of the A gamma (HBG1) and the G gamma (HBG2) globin genes to that cause non-deletional HPFH	Sanger Sequencing using: Applied Biosystems 3500XL Genetic Analyser LP-HAE-PND118	
and DNA extracted from: Whole blood Amniotic Fluid CVS Cultured Amniocytes Dried Blood Spot Fetal Blood Formalin-Fixed Paraffin-Embedded (FFPE) samples Plasma Serum	Maternal cell contamination: Analysis of repeat length of 16 microsatellite markers	ABI AmpFLSTR kit multiplexed PCR reaction. Products analysed using Applied Biosystems 3500XL Genetic Analyser LP-HAE-PND067	KCH

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location code
HUMAN TISSUES AND FLUIDS (cont'd)	Molecular haematology examinations for the purpose of clinical diagnosis (cont'd)	In house documented methods incorporating manufacturers' instructions as required	
Genomic DNA extracted in house from whole blood (unless stated otherwise for specified tests) or received as primary sample type (cont'd)	Red blood cell disorders and mutations: Membranopathy Red Cell Enzyme Haemoglobinopathies Congenital Erythrocytosis Diamond-Blackfan Anaeimia Bone Marrow Failure Thrombocytopenia Neutropenia Porphyria Siderblastic Anaemia Iron Regulation HLH Lymphedema Single Genes (HP, Serpina1, UGTA1) Sex Chromosome Markers	Beckman Coulter Biomek i7 robot to construct sequencing libraries followed by hybridisation to probe targets and amplification. KCH-LP-HAE-PND155 Tapestation 4150 Amplified library sequenced by Next Generation Sequencing (NGS) on Illumina MiSeq. KCH-LP-HAE-PND155 Data analysed using a NIPY pipeline LP-HAE-PND132	KCH
	Validation of variants from NGS	Sanger Sequencing using: Applied Biosystems 3500XL Genetic Analyser LP-HAE-PND131	KCH
	Special Haematological examinations for the purpose of clinical diagnosis		
Whole blood	Haemoglobin detection: HbS HbC Hb D-Punjab Hb O-Arab Hb Lepore Hb G-Philadelphia Hb Stanleyville Hb E	Tandem Mass Spectrometry using: Premier Mass Spectrometer and: BSSH-SOP-022	STH

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location code
	Special Haematological examinations for the purpose of clinical diagnosis		
Whole blood Bone marrow Aspirate fluid	Leukaemia flow cytometry panels: Cell surface and/or intracellular B cell, T cell, myeloid, monocytic and immature progenitor antigens: Chronic panel: FMC7	Immunophenotyping by Flow Cytometry using: Beckman Coulter DX Flex and: BSSH-SOP-080	GUY
	Cytoplasmic markers: TdT MPO CD79a CD34 CD22 CD3 IgM		GUY
Blood, Bone Marrow, CSF, FNA	Chronic panel:	Immunophenotyping by Flow Cytometry using: Beckman Coulter DX Flex and: BSSH-SOP-080	GUY
	B-Cell Tube 1: Kappa Lambda CD5 CD79b CD19 CD10 CD23 CD43 CD81 CD45 CD20 ROR1 CD200		GUY

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location code
	Special Haematological examinations for the purpose of clinical diagnosis		
Blood, Bone Marrow, CSF, FNA (cont'd)	Leukaemia flow cytometry panels (cont'd) B-Cell Tube 2: CD22 CD123 CD5 CD3 CD19 CD138 CD11c CD38 CD27 CD45 CD20 CD25 CD103	Immunophenotyping by Flow Cytometry using: Beckman Coulter DX Flex and: BSSH-SOP-080 (cont'd)	GUY
	T-Cell: CD8 TRBC1 CD5 CD3 TCR γ/δ TRBC2 CD16/CD56 CD4 CD57 CD45 CD7 CD25 CD2		GUY
	Paraprotein Tube: cytKappa cytLambda CD56 CD117 CD19 CD138 CD27 CD38 CD81 Cd45		GUY

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location code
	Special Haematological examinations for the purpose of clinical diagnosis		
Whole blood Bone marrow Aspirate fluid	Leukaemia flow cytometry panels (cont'd) Acute panel: CD64 CD33 CD56 CD117 CD34 CD123 CD19 CD3 HLA DR CD45 CD4 CD1a CD3 CD2 CD7 CD235a CD8 CD10 CD20 CD11b CD15	Immunophenotyping by Flow Cytometry using: Beckman Coulter DX Flex (cont'd)	GUY
Blood	CD34	Beckman Aquios Flow Cytometry BsIGST-BSSH-SOP-105	GUY
Fine Needle Aspirate (FNA) fluid	FNA flow cytometry panel: Cell surface B cell and T cell antigens (as stated above)	Immunophenotyping by Flow Cytometry using: Beckman Coulter DX Flex and: BSSH-SOP-029 (FNA)	GUY
Whole blood	Immunoplatelet count	Immunophenotyping by Flow Cytometry using: Beckman Coulter CytoFLEX (ST) & Beckman Coulter DX Flex (G) and: BSSH-SOP-036 BSSH-SOP-090	STH GUY

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location code
	Special Haematological examinations for the purpose of clinical diagnosis		
Peripheral blood	CD19 Rituximab	Flow Cytometry using: Beckman Coulter DX Flex and: BSSH-SOP-073	GUY
Whole blood	Sézary syndrome: Percentages and absolute of: CD3+/CD4+/CD26- CD3+/CD4+/CD7- CD8	Immunophenotyping by Flow Cytometry using: Beckman Coulter DX Flex and: BSSH-SOP-084	GUY
HUMAN BODY FLUIDS (cont'd)	Haematology examinations for the purpose of clinical diagnosis	In house documented methods incorporating manufacturers' instructions as required	
Blood	Full Blood Count (FBC): White cell count WBC Red cell count RBC Haemoglobin HGB Haematocrit (HCT) MCV MCH MCHC RDW-CV Platelet count (PLT) MPV #Neutrophils #Lymphocytes #Monocytes #Eosinophils #Basophils #NRBC Metamylelocyte count Mylelocyte count Promyelocyte count Blasts count	Sysmex XN-9100 series – XN10 Optical Analysis (Flow Cytometry) LP-BS-HA001 LP-BS-HA005 LP-BS-HA008 BSL-HUB-HAEM-SOP1 BSL-HUB-HAEM-SOP6	KCH HUB

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location code
HUMAN BODY FLUIDS (cont'd)	Haematology examinations for the purpose of clinical diagnosis (cont'd)	In house documented methods incorporating manufacturers' instructions as required	
Whole Blood	Full Blood Count (FBC) Analysis: Total red cell count Haemoglobin Mean cell volume Mean cell haemoglobin Mean cell haemoglobin concentration Haematocrit Red cell distribution width Total white cell count Absolute neutrophil count Absolute lymphocyte count Absolute monocyte count Absolute eosinophil count Absolute basophil count Platelet count Mean platelet volume	Sysmex XN10 & XN20 Fluorescence Flow Cytometry BH-AP-040 BSH-SOP-094	 PRUH, STH, GUY, GCC
Whole blood	Haemoglobin	Manual Azidemethaemoglobin method using: Hemocue Hb201 and: BSH-SOP-013	STH GUY
Whole blood	Platelet distribution width Nucleated red cell count	Automated using: Sysmex XN 10 and 20 and: BSH-SOP-094	STH, GUY, GCC
Blood	Reticulocytes: Retic absolute Retic Percentage LFR MFR HFR Retic RBC IRF %HYPO Ret-He	Sysmex XN-9100 series – XN10 Optical Analysis (Flow Cytometry) LP-BS-HA001 LP-BS-HA005 BSL-HUB-HAEM-SOP1 BSL-HUB-HAEM-SOP6	KCH HUB

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location code
HUMAN BODY FLUIDS (cont'd)	Haematology examinations for the purpose of clinical diagnosis (cont'd)	In house documented methods incorporating manufacturers' instructions as required	
Whole Blood	Reticulocytes	Sysmex XN10 & XN20 Fluorescence Flow Cytometry BH-AP-040	PRUH
Whole blood	Reticulocyte count: Absolute reticulocyte count Reticulocyte %	Automated using Sysmex XN 10 and XN 20	STH, GUY, GCC
Blood	Citrate platelet count	Sysmex XN-9100 series – XN10 Optical Analysis (Flow cytometry) BSL-HUB-HAEM-SOP1 BSL-HUB-HAEM-SOP6	HUB
Whole blood	Citrate platelet count	Automated using: Sysmex XN 10 and: BSH-SOP-094	STH, GUY
Whole Blood	Nucleated Red Cell Count	Sysmex XN10 & XN20 Fluorescence Flow Cytometry BH-AP-040	PRUH

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location code
HUMAN BODY FLUIDS (cont'd)	Haematology examinations for the purpose of clinical diagnosis (cont'd)	In house documented methods incorporating manufacturers' instructions as required	
Blood	Detection and speciation of Malaria parasites: *Plasmodium falciparum,* *P. vivax,* *P. ovale,* *P. malariae,* *P. knowlesi,* t trypanosomes, microfilariae, *Leishmania* spp.	Wright-Giemsa & Giemsa R66 staining followed by Light Microscopy LP-BS-ML008, LP-BS-ML009	KCH
Whole Blood (Blood Film)	Detection & presumptive speciation of Malaria & non-malaria parasites, including: *P. falciparum, P. vivax, P. ovale, P. malariae, P. knowlesi* % Parasitaemia for *P. falciparum* & *P. knowlesi*	Thick and thin film Giemsa (pH7.2) staining BH-AP-002 Nikon Eclipse 80i Olympus BX43 Microscopy BH-AP-10 BH-AP-30	PRUH
	P. falciparum-specific HRPII antigen Pan-malarial antigen of: *P. falciparum,* *P. vivax,* *P. ovale,* *P. malariae*	BINAX NOW ICT Immunochromatographic assay LP-BS-ML009	KCH
Whole Blood	Detection of Malaria antigens: *Plasmodium falciparum* HRP2 & *P. falciparum, P. vivax, P. ovale, P. malariae* Pan LDH	CareUS Immunochromogenic method BH-AP-002	PRUH

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location code
HUMAN BODY FLUIDS (cont'd)	Haematology examinations for the purpose of clinical diagnosis (cont'd)	In house documented methods incorporating manufacturers' instructions as required	
Whole blood	Confirmation and Speciation of Malaria parasites by detection of: *P. falciparum* (HRP1)	Immunochromogenic method using BinaxNOW and: BSH-SOP-081	STH
	Confirmation and identification of Malaria parasites by detection of: *P. falciparum,* *P. vivax,* *P. malariae,* *P. ovale* (pan-antigen)		
Whole blood	Confirmation and Identification of Malaria & non-Malaria parasites: *P. falciparum,* *P. ovale,* *P. vivax,* *P. malariae,* *P. knowlesi* Filaria *Typanosoma* spp. *Babesia* spp. *Borrelia* spp.	Manual Giemsa staining of thick and thin films followed by microscopy using: BSH-SOP-038 BSH-SOP-081	STH
Blood	Morphological analysis & differential cell count	Light Microscopy LP-BS-ML007, LP-BS-ML018	KCH
Blood	Erythrocyte Sedimentation Rate (ESR)	Sysmex Starrsed Interrliner XN FRL Westergren method LP-BS-HA002	KCH
		Sysmex Starrsed Interliner XN9100 BSL-HUB-HAEM-SOP6	HUB

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location code
HUMAN BODY FLUIDS (cont'd)	Haematology examinations for the purpose of clinical diagnosis (cont'd)	In house documented methods incorporating manufacturers' instructions as required	
Whole Blood	Erythrocyte Sedimentation Rate (ESR)	StaRRsed Autocompact Red cell sedimentation	
		BH-AP-011	PRUH,
		BSH-SOP-079	STH
Blood	Infectious Mononucleosis screen: Detection of the heterophile antibody	Accusay Mono Solid-phase immunoassay and: LP-BS-ML003	KCH
Plasma Serum	Heterophile antibodies (Infectious mononucleosis screen)	Latex agglutination using: BIOKIT Monolatex Kit and: BSH-SOP-019	STH
Plasma	Prothrombin/ INR* Activated partial thromboplastin time/APTT* Clauss Fibrinogen* Thrombin Time /TT*	Sysmex CN6500 (tests marked with * for urgent workflow) LP-BS-HT0013 Sysmex CS-5100 Clotting method LP-BS-HT001 LP-BS-HT003 LP-BS-HT004	KCH
Whole Blood	Clauss Fibrinogen	Sysmex CS-2500 Spectrophotometry BH-CP-002	PRUH
Plasma	Prothrombin time/PT Activated partial thromboplastin time/APTT APTT ratio Fibrinogen D-Dimer INR INR and APTT 50/50 correction Reptilase time	Sysmex CN6000 BSL-ALL-HT-SOP1	HUB
Whole Blood	Clotting Screen: Prothrombin Time (PT) Activated Partial Thromboplastin Time (APTT)	Sysmex CS-2500 Spectrophotometry Correction studies (where required) BH-CP-002	PRUH

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location code
HUMAN BODY FLUIDS (cont'd)	Haematology examinations for the purpose of clinical diagnosis (cont'd)	In house documented methods incorporating manufacturers' instructions as required	
Plasma	Factor Assays: FII FV FVII FVIII FIX FX FXI FXII	Sysmex CN6500 LP-BS-HT0013 Sysmex CS-5100 Clotting method LP-BS-HT001 LP-BS-HT003 LP-BS-HT004	KCH
Plasma	LA Screen (DRVVT) Activated Protein C Resistance	Sysmex CS-5100 Clotting method LP-BS-HT005 LP-BS-HT006	KCH
Plasma	DDimer VWF Antigen Free Protein S Antigen	Sysmex CN6500 (tests marked with * for urgent workflow) LP-BS-HT0013 Sysmex CS-5100 Latex bead Immunoturbidimetric Assay LP-BS-HT003 LP-BS-HT006 LP-BS-HT008	KCH
Whole Blood	D-dimer	Sysmex CS-2500 Spectrophotometry BH-CP-002	PRUH
Plasma	Anti-Xa: Rivaroxaban Apixaban Edoxaban Dabigataran Antithrombin Activity Protein C Activity	Sysmex CS-5100 Chromogenic method LP-BS-HT007 LP-BS-HT005	KCH

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location code
HUMAN BODY FLUIDS (cont'd)	Haematology examinations for the purpose of clinical diagnosis (cont'd)	In house documented methods incorporating manufacturers' instructions as required 'Documented in-house methods to meet the requirements of the Sickle Cell and Thalassaemia Screening Programme as defined in the laboratory QA evidence requirements	
Blood	Haemoglobinopathy Screening (inc. Antenatal, Pre-anaesthetic, Sickle Cell and Thalassaemia Screening) by detection of haemoglobin variants: Haemoglobins S, C, D, E, O-Arab, Lepore	Bio-Rad Variant II HPLC BSL-HUB-RC-SOP1 BSL-HUB-RC-SOP2	HUB
Blood	Sickle cell solubility for the presence of Haemoglobin S (HbS)	Streck SICKLEDEX kit BSL-HUB-RC-SOP3	HUB
Blood	Investigation for Hereditary Spherocytosis	EMA dye binding to red blood cells and flow cytometry analysis on Becton Dickinson FACS Canto II LP-HAE-RC-NEH-007	KCH
Whole Blood (Blood Film)	Red Cell morphology White Cell morphology Platelet morphology White Cell Differential	RAL Stainer Methylene Blue and May-Grünwald stains Methanol Free, Chromatic Detection BH-AP-039 Nikon Eclipse 80i Olympus BX43 Microscopy BH-AP-10 BH-AP-30	PRUH
Whole blood	Red cell morphology White cell morphology Platelet morphology White cell differential	Wright-Giemsa staining using: Hematek 2000 / Hematek 3000 and: BSH-SOP-043 followed by microscopy using: BSH-SOP-041	STH, GUY

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location code
HUMAN BODY FLUIDS (cont'd)	Haematology examinations for the purpose of clinical diagnosis (cont'd)	In house documented methods incorporating manufacturers' instructions as required	
Urine	Iron stain for Urine hemosiderin in the diagnosing of intravascular haemolysis.	Manual light microscopy of urine smears using manual Iron (Perl's stain) SOPHA00330	RBH
Plasma	Plasma Free Haemoglobin	HemoCue plasma/low Hb photometer using conversion of haemoglobin to azidemethaemoglobin followed by absorbance measurement SOPHA00271	RBH HH
Bone marrow aspirate	Cellularity M:E ratio and nucleated cell differential Morphology (normal & Abnormal) of red cell, white cell and platelet precursors	Manual May-Grunwald-Giemsa staining followed by microscopy using: BSH-SOP-039 BSH-SOP-086	STH GUY
Bone marrow aspirate Urine	Iron deposits (Haemosiderin)	Manual Perls' Prussian Blue and Neutral Red counterstain method followed by microscopy using: BSH-SOP-046 BSH-SOP-091	STH GUY
Plasma	Viscosity	Resistance of plasma flow using: Benson BV1 Viscometer and: BSH-SOP-050	STH
CSF	Presence of normal and abnormal white cells	Cytocentifugation & May-Grunwald-Giemsa staining followed by microscopy using: BSH-SOP-008	GUY

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location code
HUMAN BODY FLUIDS (cont'd)	Blood transfusion examinations for the purpose of clinical diagnosis	In house documented methods incorporating manufacturers' instructions as required	
Blood	ABO / RhD Blood Group antigens: A, B & D	Automated using: Biorad Banjo ID reader Biorad IH1000 Biorad IH500 LP-HAE-BT2-001, BT-3-A	KCH
Whole blood Red cells Plasma	ABO & RhD typing by detection & identification of the following antigens: A Rh D Positive AB Rh D Positive B Rh D Positive O Rh D Positive	Automated using: CAT BioRad IH1000 (STH only) & IH500 and: BSBT-SOP-104 BSL-GST-BT-SOP18 BSL-GST-BT-SOP29	STH GUY
	A Rh D Negative AB Rh D Negative B Rh D Negative O Rh D Negative Including the presence of A2 antigens	Manual using: CAT BioRad ABO and reverse grouping cards and A1 and B reagent cells and: BSL-GST-BT-SOP14	STH GUY
Blood	Automated Blood Grouping A, B, O and AB groups	BioRad IH500 using Biorad micro column cards SOPHA000538	RBH HH
	Rh groups, anitigens-;C, c, D, E, e, Kell blood group system, antigens: K	SOPHA00172	
Blood	Manual Blood Group/Phenotype A, B, O and AB groups	Manual method using Biorad micro column cards (as back-up to automated method) SOPHA00176	RBH HH
	Rh groups, anitigens-;C, c, D, E, e, Kell blood group system, antigens: K	SOPHA00172	
Blood	Red Cell Antibody detection	Manual method using Biorad micro column cards and 3 cell panel SOPHA00176	RBH HH

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location code
HUMAN BODY FLUIDS (cont'd)	Blood transfusion examinations for the purpose of clinical diagnosis (cont'd)	In house documented methods incorporating manufacturers' instructions as required	
Whole blood Plasma	Antibody Screen: detection of the following antibodies: Rh –C,D,E,c,e, Cw Kell –K, k, Kpa Duffy –Fya, Fyb MNSs- M, N, S, s Kidd –JKa, Jkb Lewis – Lea, Leb Lutheran –Lua P–P1 Anti-Chido/Rogers (STH only)	Automated using: CAT BioRad IH1000 (STH only) & IH500 and: BSBT-SOP-104 BSL-GST-BT-SOP18 BSL-GST-BT-SOP29 Manual using: Manual BioRad CAT IAT technology, anti-IgG IAT gel cards and BioRad 3 cell antibody screening reagent cells and: BSL-GST-BT-SOP14	STH GUY STH GUY
Blood	Red Cell Antibody Identification: Indirect antiglobulin test (IAT) panel Enzyme panel	Manual method using Biorad micro column cards SOPHA00172	RBH HH
Whole blood Plasma	Antibody Identification: Rh –C,D,E,c,e,f Cw Kell –K, k, Kpa Duffy –Fya, Fyb MNSs- M, N, S, s Kidd –JKa, Jkb Lewis – Lea, Leb	Automated using: CAT BioRad IH1000 (STH only) & IH500 BioRad Anti-IgG IAT and NHSBT 11 cell LISS ID panel and 11 cell. BioRad 10 cell LISS ID panel and: BSBT-SOP-090 BSBT-SOP-093 BSL-GST-BT-SOP18	STH GUY
Blood	/Crossmatching Indirect antiglobulin test (IAT) crossmatch Emergency issue	IAT crossmatch carried out by manual method using Biorad microcolumn cards. SOPHA00164 Emergency issue of blood cross site BSL-RBH-BT-SOP3 Crossmatching & red cell issue	RBH HH
Blood	Antibody Screen for: D, C, Cw, E, c, e, K, Fya, Fyb, Jka, Jkb, S, s, Lea, Leb, M,N & Lua	Automated using: Biorad Banjo ID reader Biorad IH1000 Biorad IH500 LP-HAE-BT2-001, BT3-A	KCH

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location code
HUMAN BODY FLUIDS (cont'd)	Blood transfusion examinations for the purpose of clinical diagnosis (cont'd)	In house documented methods incorporating manufacturers' instructions as required	
Blood (Red cells, Plasma)	ABO / RhD typing by detection & identification of antigens: A Rh D Positive AB Rh D Positive B Rh D Positive O Rh D Positive A Rh D Negative AB Rh D Negative B Rh D Negative O Rh D Negative	Automated using: CAT BioRad IH500 & IH1000 BT-PP-041 Manual using: CAT BioRad ABO and reverse grouping cards and A1 & B reagent cells BT-PP-032	PRUH
Blood (Plasma)	Antibody screen for detection of antibodies: Rh – C, D, E, c, e, Cw K, k, Kpa Fya, Fyb M, N, S, s Jka, Jkb Lea, Leb Lua P, P1	Automated using: CAT BioRad IH500 & IH1000 SOP?? BSL-KDP-BT-SOP5 Manual using: CAT BioRad IAT technology, anti-IgG IAT gel cards and BioRad 3 cell antibody screening reagent cells BT-PP-002	PRUH
Blood (Plasma)	Antibody Identification of antibodies: Rh – C, D, E, c, e, Cw K, Kpa Fya, Fyb M, N, S, s Jka, Jkb Lea, Leb Lua P1	Automated using: CAT BioRad IH500 & IH1000 BT-PP-041 Manual using: CAT BioRad IAT technology, anti-IgG IAT gel cards BT-PP-002	PRUH
Whole blood Plasma	Antibody Identification: Rh –C,D,E,c,e,f Cw Kell –K, k, Kpa Duffy –Fya, Fyb MNSs- M, N, S, s Kidd –JKa, Jkb Lewis – Lea, Leb	Manual using: CAT IAT technology. BioRad Anti-IgG IAT gel cards and plain na/enc cards. NHSBT 11 cell LISS ID panel and 11 cell Papainised enzyme treated ID panel. BioRad 10 cell LISS ID panel and: BSBT-SOP-090 BSBT-SOP-093	STH, GUY

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location code
HUMAN BODY FLUIDS (cont'd)	Blood transfusion examinations for the purpose of clinical diagnosis (cont'd)	In house documented methods incorporating manufacturers' instructions as required	
Blood	DAT (polyspecific, monospecific)	Automated using: Biorad Banjo ID reader Biorad IH1000 Biorad IH500 LP-HAE-BT2-001, BT2-05, BT3-D	KCH
Blood (Red cells)	Direct Antiglobulin Testing (DAT)	Automated using: CAT BioRad IH500 & IH1000 BT-PP-041	PRUH
Blood (Red cells)	Direct Antiglobulin Testing (DAT)	Automated using: CAT BioRad IH500 polyspecific and monospecific and: BSL-GST-BT-SOP7	STH, GUY
Blood (Red cells)	Direct Antiglobulin Testing (DAT)	Manual using: CAT BioRad polyspecific & monospecific IgG and CD3d DAT cards BT-PP-033 BSL-GST-BT-SOP7	PRUH, STH, GUY
Blood	Direct antiglobulin test (DAT)	Manual using Poly specifc and mono specific (anti-IgG and anti-C3d) Biorad micro column cards SOPHA00527	RBH HH
Blood	RHK phenotype antigens: D,C,c, E, e, K	Automated using: Biorad Banjo ID reader Biorad IH1000 Biorad IH500 LP-HAE-BT2-001, BT2-003	KCH
Blood (Red cells)	Rh/K phenotyping of antigens: C, c, E, e, K	Automated using: CAT BioRad IH500 & IH1000 BT-PP-041 Manual using: CAT BioRad Rh/K antigen typing cards BT-PP-006	PRUH

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location code
HUMAN BODY FLUIDS (cont'd)	Blood transfusion examinations for the purpose of clinical diagnosis (cont'd)	In house documented methods incorporating manufacturers' instructions as required	
Whole blood Plasma	Antibody Titration: Rh –C,D,E,c,e,f Cw Kell –K, k, Kpa Duffy –Fya, Fyb MNSs- M, N, S, s Kidd –JKa, Jkb Lewis – Lea, Leb Anti-A Anti-B	Automated using: CAT BioRad IH500 and: BSL-GST-BT-SOP31 Manual using: CAT BioRad CAT IAT technology. Anti-IgG IAT gel cards and plain Na/Enz gel cards and: BSL-GST-BT-SOP31	STH GUY STH
Blood	Non-RHK phenotype antigens: Jka, Jkb, Lea, Leb, S, s, M/N, Fya, Fyb	Automated (except Fya/Fyb) using: Biorad Banjo ID reader Biorad IH500, ID- Incubator 37 SI, ID-Centrifuge 12 S, DiaCent-12 LP-HAE-BT2-003, BT3-008	KCH
Blood	Non-RHK phenotype antigens: Fya, Fyb (Biorad automated IH500)	Biorad column agglutination technique Biorad Banjo ID reader LP-HAE-BT2-019-Automated Sample processing using IH-500 LP-HAE-BT2-003 Automated and Manual Cell Typing	KCH
Whole blood Red cells	Red cell antigen typing: Rh –C,E,c,e, K Kell –k, Kpa Duffy –Fya, Fyb MNSs- M, N, S, s Kidd –JKa, Jkb	Automated using: CAT BioRad IH500 and: BSL-GST-BT-SOP18 Manual using: CAT BioRad Rh/K, Profile II and profile III antigen typing cards and: BSBT-SOP-094	STH GUY STH
Whole blood Red cells	Red cell antigen typing: Rh –C,E,c,e,K	Manual using: CAT BioRad Rh/K antigen typing cards and: BSBT-SOP-094	GUY

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location code
HUMAN BODY FLUIDS (cont'd)	Blood transfusion examinations for the purpose of clinical diagnosis (cont'd)	In house documented methods incorporating manufacturers' instructions as required	
Blood	Antibody Titres of: Anti-A Anti-B	Manual using: Biorad Banjo ID reader BioRad cards/gels, ID-Centrifuge 12, ID-Incubator 37I LP-HAE-BT5-033	KCH
Blood	Foetal maternal haemorrhage	Kleihauer acid elution test using Microscopy BSL-KDP-BT-SOP21	KCH PRUH
Whole blood Red cells	Foetal Maternal Haemorrhage (semi quantitative)	Manual foetal maternal haemorrhage test based on BCSH semi quantitative method using: Guest Medical Foetal Red Cell Detection Kit and: BSL-GST-BT-SOP11	STH
Blood	Antibody identification of: D, C, Cw, E, c, e, K, Fya, Fyb, Jka, Jkb, S, s, Lea, Leb, M, N & Lua	Automated or manual using: Biorad Banjo ID reader Biorad IH500, ID-Incubator 37 SI, ID-Centrifuge 12 S LP-HAE-BT2-002, BT3-B	KCH
Blood	Baby ABO / RhD Blood Group antigens: A, B, AB & D	Automated using: Biorad Banjo ID reader Biorad IH1000 Biorad IH500 LP-HAE-BT3-A, BT2-001	KCH
Blood	ABO / RhD Blood Group antigens: A, B & D	Manual using: BioRad cards/gels, Biorad Banjo ID reader DiaCent 12 Centrifuge LP-HAE-BT4-008	KCH
Blood	DAT (polyspecific, monospecific)	Manual using: Biorad Banjo ID reader Biorad column agglutination technique LP-HAE-BT2-05	KCH

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location code
HUMAN BODY FLUIDS (cont'd)	Blood transfusion examinations for the purpose of clinical diagnosis (cont'd)	In house documented methods incorporating manufacturers' instructions as required	
Blood	Antibody Screen for: D, C, Cw, E, c, e, K, Fya, Fyb, Jka, Jkb, S, s, Lea, Leb, M,N & Lua (manual)	Manual using: Biorad Banjo ID reader Biorad column agglutination technique LP-HAE-BT3-A	KCH
Blood	Non-RHK phenotype antigens: Jka, Jkb, Lea, Leb, S, s, M/N, Fya, Fyb (manual)	Manual using: Biorad Banjo ID reader Biorad column agglutination technique LP-HAE-BT2-003	KCH
Blood	RHK phenotype antigens: D,C,c, E, e, K (manual)	Manual using: Biorad Banjo ID reader Biorad column agglutination technique LP-HAE-BT2-003	KCH
Blood	Antibody Titres of: Anti-A, Anti-B (Biorad automated IH500)	Biorad column agglutination technique Biorad Banjo ID reader LP-HAE-BT2-019-Automated Sample processing using IH-500 LP-HAE-BT5-033 Titration Of ABO Antibodies	KCH
Blood	Baby ABO / RhD Blood Group antigens: A, B, AB & D (manual)	Manual using: Biorad Banjo ID reader Biorad column agglutination technique LP-HAE-BT3-A	KCH
Blood	Compatibility testing of patient plasma with donor cells	Manual using: Biorad Banjo ID reader Biorad column agglutination technique LP-HAE-BT4-004	KCH
Blood	Compatibility testing of patient plasma with donor cells	Biorad automated IH1000 & IH500 Biorad column agglutination technique Biorad Banjo ID reader LP-HAE-BT2-019-Automated Sample processing using IH-500 LP-HAE-BT4-004 Serological (Full) Crossmatching/Compatibility Testing	KCH

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location code
HUMAN BODY FLUIDS (cont'd)	Blood transfusion examinations for the purpose of clinical diagnosis (cont'd)	In house documented methods incorporating manufacturers' instructions as required	
Whole blood Red cells	Compatibility testing of patient plasma with donor cells	Automated using: CAT BioRad IH1000 (STH only) & IH500 and: BSL-GST-BT-SOP18 BSBT-SOP-115 Manual using: CAT BioRad Anti-IgG IAT gel cards and: BSBT-SOP-115	STH GUY
Blood (Red cells, Plasma)	Compatibility testing (Crossmatch)	Manual using: CAT BioRad Anti-IgG IAT gel cards BT-PP-003	PRUH
Blood (Red cells, Plasma)	Compatibility testing (Crossmatch)	Automated using: CAT BioRad IH500 & IH1000 BSL-KDP-BT-SOP5	PRUH
END			