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: 017 **Issue date:** 10 March 2025

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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** Nura Ibrahim (as above)	Haematology Molecular Haematology Cytogenetics Immunophenotyping Haemoglobinopathies Blood Transfusion Coagulation	KCH
Blackfriars Hub Laboratory 2nd Floor Friars Bridge Court 41 Blackfriars Road London SE1 8NZ	Nura Ibrahim (as above)	Blood Sciences Laboratory: Haematology	HUB

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:**017 **Issue date:** 10 March 2025
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	Cytogenetic analysis for the purpose of clinical diagnosis	In house documented methods incorporating manufacturers' instructions as required	KCH
Bone Marrow Peripheral Blood Smears CSF Ascitic fluid Pleural Effusion	Detection of diagnostically and prognostically relevant cytogenetic abnormalities defined in the WHO Classification of Tumours of Haematopoietic and Lymphoid Tissues (2008 & 2016 revisions) Karyotyping	Culturing of human tissues/cells using: Beckman Coulter 500 and LP-HAE-CYT-Booking In LP-HAE-CYT-BC500 LP-HAE-CYT-Set Up Preparation of cultured cells by manual harvest and G-banding for chromosome analysis using: LP-HAE-CYT-HRVST LP-HAE-CYT-Slide Prep LP-HAE-CYT-GBAND LP-HAE-CYT-MSLOAD Cell separation of CD138+ cells from Multiple Myeloma referrals using: LP-HAE-CYT-PCD Fluorescence In-situ Hybridisation (FISH) using commercial probes and: LP-HAE-CYT-FISH G-banded metaphase analysis using: LP-HAE-CYT-ANALYSIS Fluorescent In-Situ Hybridisation (FISH) analysis using: LP-HAE-CYT-ANALYSIS LP-HAE-CYT-FISHCAP	
Peripheral Blood	Constitutional analysis to confirm karyotyping findings	G-banded metaphase analysis & FISH analysis using: LP-HAE-CYT-ANALYSIS	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)	<u>Molecular haematology examinations for the purpose of clinical diagnosis</u>	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	
and DNA extracted from Saliva	Variegate and Acute Intermittent Porphyria genetic analysis:		KCH
	Detection of the most common PPOX gene mutation known to cause Variegate Porphyria: R59W	RT PCR allelic discrimination TaqMan assay using: Rotor-Gene Q LP-HAE-PND122	
	Detection of other single base changes and microlesions in the PPOX gene that cause Variegate Porphyria	Sanger Sequencing using: Applied Biosystems 3500XL Genetic Analyser LP-HAE-PND125	
	Detection of single base changes and microlesions in the HMBS gene that cause Acute Intermittent Porphyria	Sanger Sequencing using: Applied Biosystems 3500XL Genetic Analyser LP-HAE-PND121	

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)	<u>Molecular haematology examinations for the purpose of clinical diagnosis</u> (cont'd)	In house documented methods incorporating manufacturers' instructions as required	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)	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)	Detection of large deletions and duplications in the HBB, HBA1 and HBA2 genes	MLPA by PCR and: Applied Biosystems 3500XL Genetic Analyser LP-HAE-PND117	
and DNA extracted from: Saliva Dried blood spots Amniotic fluid CVS Cultured amniocytes Fetal blood	Thalassaemia syndromes genetic analysis: Detection of common deletions in the HBA1 and HBA2 genes known to cause Alpha Thalassaemia	Gap PCR using: Eppendorf Mastercycler Nexus or Applied Biosystems Veriti™ Thermal Cycler and Agarose gel electrophoresis LP-HAE-PND052	
	Detection of single base changes and microlesions in the HBB, HBA1 and HBA2 genes that cause Thalassaemia syndromes	Sanger Sequencing using: Applied Biosystems 3500XL Genetic Analyser LP-HAE-PND118	
	Detection of large deletions and duplications in the alpha globin loci on chromosome 16 and the beta globin loci on chromosome 11	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)	<u>Molecular haematology examinations for the purpose of clinical diagnosis</u> (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. Tapestation 4150 Amplified library sequenced by Next Generation Sequencing (NGS) on Illumina MiSeq. 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

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location code
HUMAN BODY FLUIDS	<u>Haematology/Immunophenotyping examinations for the purpose of clinical diagnosis</u> Immunophenotyping for Chronic T and B lymphoproliferative disorders:	In house documented methods incorporating manufacturers' instructions as required	KCH
Blood Bone Marrow	LST Tube: CD19 CD20 CD45 Kappa Lambda CD38 CD5 CD4 CD8 CD3 CD56 B-cell follow on: Tube 1: CD19 CD81 CD23 CD79b CD10 CD200 CD43 CD45 Tube 2: CD19 CD103 CD123 CD11c CD25 ROR1 CD45	Becton Dickinson FACS Canto II Flow Cytometry of fluorescent labelled cells LP-HAE-IM1030 LP-HAE-IM1006 LP-HAE-IM1053	

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location code
HUMAN BODY FLUIDS (cont'd)	Haematology/Immunophenotyping examinations for the purpose of clinical diagnosis (cont'd)	In house documented methods incorporating manufacturers' instructions as required	
Blood Bone Marrow	T-cell follow on: Tube 1: CD57 CD2 CD16 CD7 CD25 CD3 HLADR CD45 Tube 2: TCR Alpha/Beta CD30 CD10 TCR Gamma/Delta CD3 CD4 CD45 Immunophenotyping for diagnosis of acute leukemia:	Becton Dickinson FACS Canto II Flow Cytometry of fluorescent labelled cells LP-HAE-IM1030 LP-HAE-IM1006 LP-HAE-IM1053	KCH
Blood Bone Marrow	Acute "Screen": CD8 Lambda CD13 Kappa CD34 CD33 CD3 HLADR CD117 CD4 CD19 CD45	Becton Dickinson FACS Canto II Flow Cytometry of fluorescent labelled cells LP-HAE-IM1030 LP-HAE-IM1006	KCH

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location code
HUMAN BODY FLUIDS (cont'd)	<u>Haematology/Immunophenotyping examinations for the purpose of clinical diagnosis</u> (cont'd)	In house documented methods incorporating manufacturers' instructions as required	
Blood Bone Marrow	Acute Leukemia Orientation Tube: MPO CD79a CD34 CD19 CD7 CD3 cytCD3 CD45AML 4 Antigen Backbone: CD34 CD117 HLADR CD45 Tube 1: CD16 CD13 CD10 CD11b Tube 2: CD14 CD300e CD64 Tube 3: CD38, CD56, CD15, CD19 Tube 4: CD36 CD105 CD33 CD71 Tube 5: CD61/CD42 CD123 CD7 CD4	Becton Dickinson FACS Canto II Flow Cytometry of fluorescent labelled cells LP-HAE-IM1030 LP-HAE-IM1006	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/Immunophenotyping examinations for the purpose of clinical diagnosis (cont'd)	In house documented methods incorporating manufacturers' instructions as required	
Blood Bone Marrow	B-ALL: Tube 1: CD58 CD66c CD34 CD10 CD38 CD20 CD45 CD19 Tube 2: TDT NG2 CD34 CD13 CD19 HLADR CD123 CD45 T-ALL Tube 1 TDT CD1A CD5 CD10 CD8 CD3 CD4 CD45 Tube 2: CD2 CD99 CD5 CD7 TCR gamma delta CD3 CD123 CD45	Becton Dickinson FACS Canto II Flow Cytometry of fluorescent labelled cells LP-HAE-IM1030 LP-HAE-IM1006	KCH

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location code
HUMAN BODY FLUIDS (cont'd)	<u>Haematology/Immunophenotyping examinations for the purpose of clinical diagnosis</u> (cont'd)	In house documented methods incorporating manufacturers' instructions as required	
	Minimal Residual Disease (MRD) assessment of:		KCH
Blood Bone Marrow	B-acute lymphoblastic leukaemia: CD58 CD66c CD34 CD10 CD38 CD20 CD45 CD19	Becton Dickinson FACS Canto II Flow Cytometry of fluorescent labelled cells LP- HAE-IM1123 LP-HAE-IM1122	
	Chronic lymphocytic leukaemia: CD81 CD79b CD5 ROR 1 CD19 CD20 CD43 CD45		
	Acute myeloid leukaemia: CD34 CD117 CD45 HLADR CD13 CD33 CD11b CD2 CD5 CD38 CD123 CD19 CD36 CD56 CD7 CD64	LP-HAE-IM-1125	

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location code
HUMAN BODY FLUIDS (cont'd)	<u>Haematology/Immunophenotyping examinations for the purpose of clinical diagnosis</u> (cont'd) Immunophenotyping for the diagnosis of Plasma cell disorders:	In house documented methods incorporating manufacturers' instructions as required	
Blood Bone Marrow	CD27 CD56 CD5 CD138 CD38 CD20 CD45 CD19 Cyt Kappa / Cyt Lambda CD117 CD138 CD38 CD45 CD19 Testing for Paroxysmal Nocturnal Haemoglobinuria (PNH):	Becton Dickinson FACS Canto II Flow Cytometry of fluorescent labelled cells LP-HAE-IM1108	KCH
Blood Bone Marrow	WBC: CD157 FLAER CD64 CD15 CD45 RBC: CD59 CD235a	Becton Dickinson FACS Canto II Flow Cytometry of fluorescent labelled cells LP-HAE-IM1030 LP-HAE-IM1006	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/Immunophenotyping examinations for the purpose of clinical diagnosis (cont'd) Immunophenotyping for Myelodisplastic Syndrome (MDS) assessment:	In house documented methods incorporating manufacturers' instructions as required	KCH
Blood Bone Marrow	CD34 CD117 CD45 HLADR CD16 CD10 CD11b CD13 CD14 CD64 IREM2 CD38 CD19 CD56 CD15 CD71 CD36 CD33 CD7 CD123 CD4	Becton Dickinson FACS Canto II Flow Cytometry of fluorescent labelled cells LP-HAE-IM1126	

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	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 Blast Flag Fragments Flag Immature Granulocyte Flag Platelet Clump Flag Atypical Lymphocyte Flag	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
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
Blood	Citrate platelet count	Sysmex XN-9100 series – XN10 Optical Analysis (Flow cytometry) BSL-HUB-HAEM-SOP1 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	
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
	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
Blood (Thin blood films)	Detection of *Plasmodium* spp.	Pathway Diagnostics Quantitative Buffy Coat (QBC) kit & Fluorescence microscopy LP-BS-ML009	KCH
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
Blood	Infectious Mononucleosis screen: Detection of the heterophile antibody	Accusay Mono Solid-phase immunoassay and: LP-BS-ML003	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	
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
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
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

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	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
Plasma	Anti-Xa: Rivaroxaban Apixaban Edoxaban Dabigataran Antithrombin Activity Protein C Activity	Sysmex CS-5100 Chromogenic method LP-BS-HT007 LP-BS-HT005	KCH
		Documented in-house methods to meet the requirements of the Sickle Cell and Thalassaemia screening programme(s) as defined in the July 2018 'Sickle Cell and Thalassaemia screening: laboratory QA evidence requirements'	KCH
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 LP-HAE-RC-HB003 Semi automated Sebia Scan 2 Hydrasys Acid (E) gel electrophoresis assay on the Sebia Hydrasys analyser LPHAE-RC-HB018 Perkin Elmer Iso-Electric focussing system LP-HAE-RC-NNS012	
Blood	Sickle cell solubility for the presence of Hamoglobin S (HbS)	Streck Sickledex Kit LP-HAE-RC-HB019	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	
Dry Blood Spot	Newborn Screening confirmation of haemoglobin variants: Haemoglobins S, C, D, E, O-Arab	Manual DBS punching and Perkin Elmer Iso-Electric focussing system LP-HAE-RC-NNS012 BioRad Vnbs HPLC analyser using ion exchange LP-HAE-RC-NNS022	KCH
Blood	Haemoglobin H bodies identification	Supra-vital staining with brilliant Cresyl blue and microscopic examination LP-HAE-RC-HB009	
Blood	Haemoglobin S and Haemoglobin F quantification	Bio-Rad Variant II HPLC analyser LP-HAE-RC-HB003	
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	
Blood	Red Cell Enzymes:	Analysis of prepared red cell lysate by spectrophotometric measurement of rate of reduction of NADP or oxidation of NADH using Glock and McLean method	
	Glucose-6-Phosphate Dehydrogenase (G6PD)	LP-HAE-RC-MET013	
	Pyruvate Kinase	LP-HAE-RC-MET015	
	Hexokinase	LP-HAE-RC-MET014	
	Glucose Phosphate Isomerase	LP-HAE-RC-MET017	
	Phospho-glycerate Kinase	LP-HAE-RC-MET019	
	Triose-phosphate Isomerase	LP-HAE-RC-MET020	
	Aldolase	LP-HAE-RC-MET016	
	Glutathione Reductase	LP-HAE-RC-MET022	
	Methaemoglobin Reductase	LP-HAE-RC-MET021	
Blood	Glucose-6-Phosphate Dehydrogenase deficiency screen	Pointe Scientific G6PD assay kit LP-HAE-RC-MET026	
Bone marrow	Morphological analysis	May-Grunwald and Giemsa staining followed by microscopy LP-HAE-IM1005	

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
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	
Blood	DAT (polyspecific, monospecific)	Automated using: Biorad Banjo ID reader Biorad IH1000 Biorad IH500 LP-HAE-BT2-001, BT2-05, BT3-D	
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	
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	
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	
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	

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	Foetal maternal haemorrhage	Kleihauer acid elution test using Microscopy LP-HAE-BT3-J	KCH
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	
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	
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	
Blood	DAT (polyspecific, monospecific)	Manual using: Biorad Banjo ID reader Biorad column agglutination technique LP-HAE-BT2-05	
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	
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	

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	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	
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	
Blood	Compatibility testing of patient plasma with donor cells (Manual)	Manual using: Biorad Banjo ID reader Biorad column agglutination technique LP-HAE-BT4-004	
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	
END			