Schedule of Accreditation

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Accredited to ISO 15189:2022

Frimley Health NHS Foundation Trust
Operating as Berkshire and Surrey Pathology Services

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Frimley Park Hospital
Portsmouth Road
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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 Frimley Park Hospital Portsmouth Road Frimley Camberley GU16 7UJ	**Local contact** As above	Chemistry Haematology Blood transfusion	FPH
St Peter's Hospital Guildford Road Lyne Chertsey KT16 0PZ	As above	Chemistry Haematology Blood transfusion	SPH
Royal Surrey County Hospital Guildford GU2 7XX	As above	Chemistry Haematology Blood transfusion	RSCH
SAS Trace Elements Centre 15 Frederick Sanger Road Guildford Surrey GU2 7YD	As above	SAS Service for Trace Elements SAS Service for Peptide Hormones (Specialist Biochemistry Services, Trace elements, LCMS & Peptides)	SPS
Bowel Cancer Screening Centre Surrey Research Park 20 Priestley Road Guildford Surrey GU2 7YS	As above	Bowel screening	BCSC

Location details		Activity	Location code
Ashford Pathology Issue Fridge Pathology Department London Road Stanwell Ashford TW15 3AA		Issue Fridge Fridge Managed by Haematology	
STP Main Issue Fridge; Level B Pathology Blood Transfusion Department Guildford Road Chertsey Surrey KT16 0PZ		Blood Storage & Issue Only Fridge Managed by Haematology	STP
STP Theatre Issue Fridge Treatment Room Theatre Department Guildford Road Chertsey Surrey KT16 0PZ		Blood Storage & Issue Only Fridge Managed by Haematology	STP
STP Labour Ward Maternity Department Guildford Road Chertsey Surrey KT16 0PZ		Issue Fridge	STP
FPH Main Issue Fridge, Ground Floor, Blue Corridor Pathology Blood Transfusion Department Frimley Park Hospital Portsmouth Road Frimley GU16 7UJ		Blood Storage & Issue Only Fridge Managed by Haematology	FPH
FPH ED Resuscitation Bay, Ground Floor Emergency Department Frimley Park Hospital Portsmouth Road Frimley GU16 7UJ		Blood Storage & Issue Only Fridge Managed by Haematology	FPH

Location details		Activity	Location code
FPH ED Resuscitation Bay, Ground Floor Emergency Department Frimley Park Hospital Portsmouth Road Frimley GU16 7UJ		Blood Storage & Issue Only Fridge Managed by Haematology	FPH
FPH Theatre Issue Fridge; First Floor, Red Corridor Theatre Department Frimley Park Hospital Portsmouth Road Frimley GU16 7UJ		Blood Storage & Issue Only Fridge Managed by Haematology	FPH
Spire Clare Park Hospital; First Floor, Theatre Entrance Crondall Lane Farnham Surrey GU10 5XX		Blood Storage & Issue Only Fridge Managed by Haematology	SCPH
RSCH Main Issue Fridge; Level B Opposite Pathology Blood Transfusion Department RSCH Egerton Road Guildford GU2 7XX		Blood Storage & Issue Only Fridge Managed by Haematology	RSCH
RSCH Delivery Suite Issue Fridge Maternity Department, RSCH Egerton Road Guildford GU2 7XX		Blood Storage & Issue Only Fridge Managed by Haematology	RSCH
RSCH Chilworth Ward Treatment Room RSCH Egerton Road Guildford GU2 7XX		Blood Storage & Issue Only Fridge Managed by Haematology	RSCH

DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN BODY FLUIDS	Biochemistry examination activities for the purpose of clinical diagnosis	In house documented methods incorporating Abbott Alinity ci manufacturers' instructions as required. Measurement by colorimetric, turbidometric, immunoturbidometric, enzymatic, immunoassay, and indirect ion-selective electrode	
	Quantification of:		
Serum	Glucose	BSPS-SOP-040	RSCH
Serum	Albumin	BIO-BSPS-SOP-040	FPH, RSCH, SPH
Serum	Alkaline Phosphatase	BIO-BSPS-SOP-040	FPH, RSCH, SPH
Serum	Alpha 1 Antitrypsin	BIO-BSPS-SOP-040	FPH
Serum	Alpha-fetoprotein (AFP)	BIO-BSPS-SOP-040	FPH, RSCH, SPH
Serum	Alanine Aminotransferase (ALT)	BIO-BSPS-SOP-040	FPH, RSCH, SPH
Serum	Amikacin	BIO-BSPS-SOP-040	FPH
Lithium Heparin Plasma	Ammonia	BIO-BSPS-SOP-040	FPH, RSCH, SPH
Serum, urine	Amylase	BIO-BSPS-SOP-040	FPH, RSCH, SPH
Serum	Apolipoprotein A1 (Apo A1)	BIO-BSPS-SOP-040	RSCH
Serum	Apolipoprotein B (Apo B)	BIO-BSPS-SOP-040	RSCH
Serum	Asparate Aminotransferase (AST)	BIO-BSPS-SOP-040	FPH, RSCH, SPH
Serum	Bile acids (Total)	BIO-BSPS-SOP-040	FPH, RSCH, SPH

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN BODY FLUIDS (cont'd)	Biochemistry examination activities for the purpose of clinical diagnosis (cont'd) Quantification of: (cont'd)	In house documented methods incorporating Abbott Alinity ci manufacturers' instructions as required. Measurement by colorimetric, turbidometric, immunoturbidometric, enzymatic, immunoassay, and indirect ion-selective electrode	
Serum	Bilirubin (Direct)	BIO-BSPS-SOP-040	FPH, RSCH, SPH
Serum	Bilirubin (Total)	BIO-BSPS-SOP-040	FPH, RSCH, SPH
Serum	CA 125	BIO-BSPS-SOP-040	FPH, RSCH, SPH
Serum	CA 15-3	BIO-BSPS-SOP-040	FPH, RSCH, SPH
Serum	CA 19-9	BIO-BSPS-SOP-040	FPH, RSCH, SPH
Serum	Caeruloplasmin	BIO-BSPS-SOP-040	RSCH
Serum, urine	Calcium	BIO-BSPS-SOP-040	FPH, RSCH, SPH
Serum	Carbamazepine	BIO-BSPS-SOP-040	FPH, RSCH, SPH
Serum	Bicarbonate (Carbon Dioxide)	BIO-BSPS-SOP-040	FPH, RSCH, SPH
Serum	Carcinoembryonic antigen (CEA)	BIO-BSPS-SOP-040	FPH, RSCH, SPH
Serum, urine	Chloride	BIO-BSPS-SOP-040	FPH, RSCH, SPH
Serum	Cholesterol	BIO-BSPS-SOP-040	FPH, RSCH, SPH

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN BODY FLUIDS (cont'd)	Biochemistry examination activities for the purpose of clinical diagnosis (cont'd) Quantification of: (cont'd)	In house documented methods incorporating Abbott Alinity ci manufacturers' instructions as required. Measurement by colorimetric, turbidometric, immunoturbidometric, enzymatic, immunoassay, and indirect ion-selective electrode	
Serum	Cortisol	BIO-BSPS-SOP-040	FPH, RSCH, SPH
Serum	C-Reactive Protein (CRP)	BIO-BSPS-SOP-040	FPH, RSCH, SPH
Serum	hsCRP (High Sensitive C-Reactive Protein)	BIO-BSPS-SOP-040	RSCH
Serum	Creatine Kinase	BIO-BSPS-SOP-040	FPH, RSCH, SPH
Serum, urine	Creatinine	BIO-BSPS-SOP-040	FPH, RSCH, SPH
Serum	Dehydroepiandrosterone sulfate (DHEA-S)	BIO-BSPS-SOP-040	FPH
Serum	Digoxin	BIO-BSPS-SOP-040	FPH, RSCH, SPH
Serum	Estradiol	BIO-BSPS-SOP-040	FPH, RSCH, SPH
Serum	Ethanol	BIO-BSPS-SOP-040	FPH, RSCH, SPH
Serum	Follicle Stimulating Hormone (FSH)	BIO-BSPS-SOP-040	FPH, RSCH, SPH
Serum, Plasma	Fructosamine	BIO-BSPS-SOP-040	FPH
Serum	Gamma Glutamyl Transferase (GGT)	BIO-BSPS-SOP-040	FPH, RSCH, SPH
Serum	Gentamicin	BIO-BSPS-SOP-040	FPH, RSCH, SPH

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN BODY FLUIDS (cont'd)	Biochemistry examination activities for the purpose of clinical diagnosis (cont'd) Quantification of: (cont'd)	In house documented methods incorporating Abbott Alinity ci manufacturers' instructions as required. Measurement by colorimetric, turbidometric, immunoturbidometric, enzymatic, immunoassay, and indirect ion-selective electrode	
Fluoride Oxalate Plasma, CSF,	Glucose	BIO-BSPS-SOP-040	FPH, RSCH, SPH
Plasma	Homocysteine	BIO-BSPS-SOP-040	FPH RSCH
Serum	Beta hCG (Total)	BIO-BSPS-SOP-040	FPH, RSCH, SPH
Serum	High-density lipoprotein HDL	BIO-BSPS-SOP-040	FPH, RSCH, SPH
Serum	Iron	BIO-BSPS-SOP-040	FPH, RSCH, SPH
Serum	Lactate Dehydrogenase (LDH)	BIO-BSPS-SOP-040	FPH, RSCH, SPH
Plasma, CSF	Lactic Acid	BIO-BSPS-SOP-040	FPH, RSCH, SPH
Serum	Lipase	BIO-BSPS-SOP-040	FPH
Serum	Lipoprotein (a)	BIO-BSPS-SOP-040	RSCH
Serum	Lithium	BIO-BSPS-SOP-040	FPH, RSCH, SPH
Serum	Luteinizing Hormone (LH)	BIO-BSPS-SOP-040	FPH, RSCH, SPH
Serum, urine	Magnesium	BIO-BSPS-SOP-040	FPH, RSCH, SPH
Urine	Microalbumin	BIO-BSPS-SOP-040	FPH, RSCH, SPH

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN BODY FLUIDS (cont'd)	Biochemistry examination activities for the purpose of clinical diagnosis (cont'd) Quantification of: (cont'd)	In house documented methods incorporating Abbott Alinity ci manufacturers' instructions as required Measurement by colorimetric, turbidometric, immunoturbidometric, enzymatic, immunoassay, and indirect ion-selective electrode	
Serum	(Beta 2) Microglobulin	BIO-BSPS-SOP-040	SPH
Serum	NT-pro BNP	BIO-BSPS-SOP-040	FPH, RSCH, SPH
Serum	Paracetamol	BIO-BSPS-SOP-040	FPH, RSCH, SPH
Serum	Parathyroid hormone PTH (intact)	BIO-BSPS-SOP-040	FPH, RSCH, SPH
Serum	Phenytoin	BIO-BSPS-SOP-040	FPH, RSCH, SPH
Serum, urine	Phosphate	BIO-BSPS-SOP-040	FPH, RSCH, SPH
Serum, urine	Potassium	BIO-BSPS-SOP-040	FPH, RSCH, SPH
Serum	Progesterone	BIO-BSPS-SOP-040	FPH, RSCH, SPH
Serum	Prolactin	BIO-BSPS-SOP-040	FPH, RSCH, SPH
Serum	Prostate-specific antigen (PSA) (Total)	BIO-BSPS-SOP-040	FPH, RSCH, SPH
Serum	Salicylate	BIO-BSPS-SOP-040	FPH, RSCH, SPH
Serum	Sex Hormone Binding Globulin (SHBG)	BIO-BSPS-SOP-040	FPH, RSCH, SPH
Serum, urine	Sodium	BIO-BSPS-SOP-040	FPH, RSCH, SPH

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN BODY FLUIDS (cont'd)	Biochemistry examination activities for the purpose of clinical diagnosis (cont'd) Quantification of: (cont'd)	In house documented methods incorporating Abbott Alinity ci manufacturers' instructions as required Measurement by colorimetric, turbidometric, immunoturbidometric, enzymatic, immunoassay, and indirect ion-selective electrode	
Serum	Testosterone	BIO-BSPS-SOP-040	FPH, RSCH, SPH
Serum	Theophylline	BIO-BSPS-SOP-040	FPH, RSCH SPH
Serum	Thyroid stimulating hormone (TSH)	BIO-BSPS-SOP-040	FPH, RSCH, SPH
Serum	Thyroglobulin	BIO-BSPS-SOP-040	RSCH
Serum	Thyroglobulin Antibodies	BIO-BSPS-SOP-040	RSCH
Serum	Thyroxine T4 (Free)	BIO-BSPS-SOP-040	FPH, RSCH, SPH
Serum, Urine, CSF	Total Protein	BIO-BSPS-SOP-040	FPH, RSCH SPH
Serum	Tobramycin	BIO-BSPS-SOP-040	FPH
Serum	Transferrin	BIO-BSPS-SOP-040	FPH, RSCH, SPH
Serum	Triglyceride	BIO-BSPS-SOP-040	FPH, RSCH, SPH
Serum	Triiodothyronine T3 (Free)	BIO-BSPS-SOP-040	FPH, RSCH, SPH
Serum	Troponin I (STAT high sensitivity)	BIO-BSPS-SOP-040	FPH, RSCH, SPH
Serum, urine	Uric acid	BIO-BSPS-SOP-040	FPH, RSCH, SPH

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN BODY FLUIDS (cont'd)	Biochemistry examination activities for the purpose of clinical diagnosis (cont'd)	In house documented methods incorporating Abbott Alinity ci manufacturers' instructions as required. Measurement by colorimetric, turbidometric, immunoturbidometric, enzymatic, immunoassay, and indirect ion-selective electrode	
	Quantification of: (cont'd)		
Serum, urine	Urea Nitrogen	BIO-BSPS-SOP-040	FPH, RSH, SPH
Serum	Valproate	BIO-BSPS-SOP-040	SPH
Serum	Vancomycin	BIO-BSPS-SOP-040	FPH, RSCH, SPH
Serum	25 Hydroxy Vitamin D	BIO-BSPS-SOP-040	FPH, RSCH, SPH
Serum	Macroprolactin	PEG precipitation followed by two step immunoassay BIO-BSPS-SOP-015	FPH, RSCH, SPH
	The following* examinations generate analyser results intended for patient care:		
Serum	Ferritin*	BIO-BSPS-SOP-040	FPH, RSCH, SPH
Serum	Folate*	BIO-BSPS-SOP-040	FPH, RSCH, SPH
Serum	Vitamin B12*	BIO-BSPS-SOP-040	FPH, RSCH, SPH
Urine	Urine Metadrenalines Normetanephrine Metanephrine 3-methoxytyramine	Waters Aquity UPLC and Xevo TQ-XS Mass Spectrometer. LCMS-RSFTSOP- 0024	TE, LCMS&P
Faeces	Calprotectin	Buhlmann fCal turbo on the Abbott Alinity ci BIO-FPH/RBH-SOP-016	FPH
Serum, Lithium heparin plasma, EDTA plasma	C-Peptide	Waters Aquity UPLC and Xevo TQ-XS Mass Spectrometer LCMS-RSFTSOP-0028	TE, LCMS&P

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN BODY FLUIDS (cont'd)	Biochemistry examination activities for the purpose of clinical diagnosis (cont'd)	In house documented methods incorporating Abbott Alinity ci manufacturers' instructions as required Measurement by colorimetric, turbidometric, immunoturbidometric, enzymatic, immunoassay, and indirect ion-selective electrode	
	Derived Results (calculations):		
Serum	AKI	BIO-BSPS-SOP-040 using Clinisys Winpath	FPH, RSCH, SPH
Serum	eGFR – CKD-EPI calculation	BIO-BSPS-SOP-040 using Clinisys Winpath	FPH, RSCH, SPH
Serum	Adjusted calcium	BIO-BSPS-SOP-040 using Clinisys Winpath	FPH, RSCH, SPH
Serum	Cholesterol:HDL ratio	BIO-BSPS-SOP-040 using Clinisys Winpath	FPH, RSCH, SPH
Serum, EDTA whole blood	FIB-4 (Calculated)	BIO-BSPS-SOP-040 using Clinisys Winpath	FPH, RSCH, SPH
Serum	Non-HDL cholesterol	BIO-BSPS-SOP-040 using Clinisys Winpath	FPH, RSCH, SPH
Serum	LDL cholesterol (calculated)	BIO-BSPS-SOP-040 using Clinisys Winpath	FPH, RSCH, SPH
Serum	Iron saturation	BIO-BSPS-SOP-040 using Clinisys Winpath	FPH, RSCH, SPH
Urine	24h urine excretion (may be used for any urine analyte)	BIO-BSPS-SOP-040 using Clinisys Winpath	FPH, RSCH, SPH
Urine	Urine protein:creatinine ratio urine	BIO-BSPS-SOP-040 using Clinisys Winpath	FPH, RSCH, SPH
Urine	Urine albumin:creatinine ratio (microalbumin)	BIO-BSPS-SOP-040 using Clinisys Winpath	FPH, RSCH, SPH
Urine	Creatinine clearance	BIO-BSPS-SOP-040 using Clinisys Winpath	FPH, RSCH, SPH

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN BODY FLUIDS (cont'd)	Biochemistry examination activities for the purpose of clinical diagnosis (cont'd) Derived Results (calculations):	In house documented methods incorporating Abbott Alinity ci manufacturers' instructions as required Measurement by colorimetric, turbidometric, immunoturbidometric, enzymatic, immunoassay, and indirect ion-selective electrode	
Urine	Calcium:creatinine clearance ratio	BIO-BSPS-SOP-040 using Clinisys Winpath	FPH, RSCH, SPH
Serum	Post-PEG prolactin	BIO-FPH/ASPH-SOP-001 using Clinisys Winpath	SPH
Serum	Free Androgen Index	BIO-BSPS-SOP-040 using Clinisys Winpath	FPH, RSCH, SPH
Serum	Free Testosterone	BIO-BSPS-SOP-040 using Clinisys Winpath	FPH, RSCH, SPH
Sweat	Chloride	Titration on the Sherwood 926s chloride meter BIO-FPH/ASPH-SOP-020	FPH, SPH
Serum	P3NP (Procollagen Type III N-terminal peptide)	Siemens Atellica (BIO-RSFT-SOP-005)	RSCH
Serum	Erythropoietin	Siemens Atellica (BIO-RSFT-SOP-005)	RSCH
Serum	Hyaluronic Acid	Siemens Atellica (BIO-RSFT-SOP-005)	RSCH
Serum	ELF testing	Siemens Atellica (BIO-RSFT-SOP-005)	RSCH
EDTA whole blood	HbA1c	Ion exchange HPLC on the Tosoh G11 BIO-FPH/WPH-SOP-050	FPH
Serum, Urine	Osmolality	Freezing point depression on the Advanced Instruments Micro-Osmometer BIO-BSPS-SOP-038	FPH, RSCH, SPH

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN BODY FLUIDS (cont'd)	Biochemistry examination activities for the purpose of clinical diagnosis (cont'd)	In house documented methods incorporating manufacturers' instructions as required	
CSF	Xanthochromia	Spectrophotometric using the Uvikon XL spectrophotometer FPH/RSFT/ASPH-021	FPH, SPH RSCH
Serum, Lithium Heparin plasma	Insulin	Mercodia Iso-insulin Enzyme Linked Immunosorbent Assay (ELISA), PEP-RSCH-SOP-00605	TE,LCMS&P
Serum, Lithium Heparin plasma	C-Peptide	Mercodia ELISA (manual), PEP-RSCH-SOP-00619	TE,LCMS&P
Serum	C-Peptide	Mercodia ELISA on Launch DS2 platform PEP-RSFT-SOP-00667	TE,LCMS&P
Urine	C-Peptide	Mercodia ELISA (manual & DS2) PEP-RSFT-SOP-00619 PEP-RSFT-SOP-00667	TE,LCMS&P
Serum, Lithium Heparin plasma	Proinsulin	Mercodia ELISA, PEP-RSCH-SOP-00609	TE,LCMS&P
Serum	Growth Hormone	IDS iSYS, chemiluminescence, PEP-RSFT-SOP-00159	TE,LCMS&P
Serum	Insulin like Growth factor - I	IDS iSYS, chemiluminescence, PEP-RSFT-SOP-00159	TE,LCMS&P
Serum	Insulin like Growth factor - II	In -house competitive radioimmunoassay (RIA), PEP-RSCH-SOP-00611	RSCH (PH)
Serum	Gastrin	DiaSource Gastrin RIA kit Radioimmunoassay PEP-RSFT-SOP-00614	RSCH
Serum	IGF-BP3	IDS iSYS, chemiluminescence, PEP-RSCH-SOP-00722	TE,LCMS&P
Serum	IgG Insulin Antibodies	Biomerica Isletest ELISA, PEP-RSFT-SOP-00159	TE,LCMS&P

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN BODY FLUIDS (cont'd)	Biochemistry examination activities for the purpose of clinical diagnosis (cont'd)	In house documented methods incorporating manufacturers' instructions as required	
Serum	β Hydroxybutyrate	Spectrophotometric using the Thermo Scientific Multiskan Skyhigh spectrophotometer, PEP-RFST-SOP-00613	TE,LCMS&P
Whole Blood (EDTA)	Cyclosporine A Sirolimus Tacrolimus	Using Waters Aquity UPLC and Xevo TQ-XS Mass Spectrometer. Analysis by LC MS/MS. SOP: LCMS-RSCH-SOP-0004	TE,LCMS&P
Serum, Urine	Sulphonylureas	Using Waters Aquity UPLC and Xevo TQ-XS Mass Spectrometer. Analysis by LC MS/MS. SOP: LCMS-RSCH-SOP-0004	TE,LCMS&P
Urine	5-Hydroxyindoleacetic Acid (5-HIAA)	Using Waters Aquity UPLC and Xevo TQ-XS mass spectrometer Analysis by LC-MSMS LCMS-RSCH-SOP-0018	TE,LCMS&P
All trace element matrices	Multi-elemental analysis of blood, serum and urine by ICP-MS	Inductively coupled plasma mass spectrometry (ICP-MS) Thermo iCap-Q TRACE-RSCH-SOP-48	TE,LCMS&P
Serum, plasma, water	Aluminium	TRACE-RSCH-SOP-20	TE,LCMS&P
Blood, urine	Arsenic	TRACE-RSCH-SOP-33, TRACE-RSCH-SOP-11	TE,LCMS&P
Blood, urine	Cadmium	TRACE-RSCH-SOP-14, TRACE-RSCH-SOP-11	TE,LCMS&P
Blood, serum, plasma, urine, hip fluids/aspirates	Chromium	TRACE-RSCH-SOP-18, TRACE-RSCH-SOP-11	TE,LCMS&P
Blood, serum, plasma, urine, hip fluids/aspirates	Cobalt	TRACE-RSCH-SOP-18, TRACE-RSCH-SOP-11	TE,LCMS&P
Serum, plasma, urine, solid samples	Copper	TRACE-RSCH-SOP-16, TRACE-RSCH-SOP-11	TE,LCMS&P

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN BODY FLUIDS (cont'd)	Biochemistry examination activities for the purpose of clinical diagnosis (cont'd)	In house documented methods incorporating manufacturers' instructions as required	
Urine	Iron	TRACE-RSCH-SOP-25, TRACE-RSCH-SOP-11	TE,LCMS&P
Blood, urine	Lead	TRACE-RSCH-SOP-14, TRACE-RSCH-SOP-11	TE,LCMS&P
Blood	Magnesium	TRACE-RSCH-SOP-24	TE,LCMS&P
Red cells - calculated	Magnesium	TRACE-RSCH-SOP-24	TE,LCMS&P
Blood,, urine	Manganese	TRACE-RSCH-SOP-14	TE,LCMS&P
Blood, urine	Mercury	TRACE-RSCH-SOP-23, TRACE-RSCH-SOP-11	TE,LCMS&P
Serum, plasma, urine	Molybdenum	TRACE-RSCH-SOP-21	TE,LCMS&P
Blood, serum, plasma, urine	Antimony, Bismuth, Nickel, Platinum, Vanadium	TRACE-RSCH-SOP-15	TE,LCMS&P
Serum, plasma, urine	Selenium	TRACE-RSCH-SOP-17	TE,LCMS&P
Blood, urine	Silver	TRACE-RSCH-SOP-19	TE,LCMS&P
Blood, urine	Thallium	TRACE-RSCH-SOP-22	TE,LCMS&P
Serum, plasma, urine	Zinc	TRACE-RSCH-SOP-16	TE,LCMS&P
Blood, serum, plasma, urine, solid samples	Multi-element analysis of specific elements and scan from atomic numbers 3 to 85	TRACE-RSCH-SOP-11	TE,LCMS&P
Faeces	Faecal Immunochemical Testing (FIT) for quantification of human globin	Using Latex Agglutination on the OC-Sensor Pledia for PHE screening purposes SOP: BCSP-RSCH-SOP-102	BCSC
	OC-Sensor Pledia (latex agglutination and immunoturbidimetry)- FIT testing- sample type: faeces	OC-Sensor Pledia (For research projects) BCSP-RSFT-SOP-119	BCSC

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN BODY FLUIDS (cont'd)	Biochemistry examination activities for the purpose of clinical diagnosis (cont'd)	In house documented methods incorporating manufacturers' instructions as required	
Faeces	Faecal Immunochemical Testing (FIT) for quantification of human globin	Using Latex Agglutination on the OC-Sensor Pledia for testing of referred symptomatic patients SOP: BIO-RFST-SOP-031	RSCH
Renal calculi	Semi-qualitative measurement of inorganic and organic compounds	Fourier Transform Infa-Red Spectroscopy on the Perkin Elmer Spectrum 2 analyser SOP: BIO-ASPH-SOP-56	SPH
Plasma	Placental Growth Factor (PLGF)	One step fluorescence IA using Quidel Triage MeterPro BIO-FPH/RSH/SPH/WPH-SOP-001	FPH, RSCH, SPH
	Blood Transfusion examinations to assist in clinical investigations	Procedures documented in manufacturer's equipment manuals in conjunction with documented in-house procedures by the following methods:	
Whole blood: EDTA samples	Blood Group by detection and identification of antigens: A Rh D Positive AB Rh D Positive B Rh D Positive O Rh D Positive A Rh Negative AB Rh D Negative B RhD Negative O Rh D Negative	Automated using NEO Iris analyser BTR-BSPS-SOP-126: Automated Blood Group Antibody Screen & Antibody ID using IBG Neo	RSCH

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 to assist in clinical investigations (cont'd)	Procedures documented in manufacturer's equipment manuals in conjunction with documented in-house procedures by the following methods:	
Whole blood: EDTA samples	Blood Group by detection and identification of antigens: A Rh D Positive AB Rh D Positive B Rh D Positive O Rh D Positive A Rh Negative AB Rh D Negative B RhD Negative O Rh D Negative	Automated using NEO Iris analyser Automated using Immucor Neo Iris analysers using Capture technology for digital image analysis And Immucor Iris analysers using Capture technology for digital image analysis BTR-BSPS-SOP-126: Automated Blood Group Antibody Screen & Antibody ID using IBG Neo BTR-BSPS-SOP-224: Manual Blood Grouping and Antibody Screening – (only for card)	FPH STP
	Antibody Screen by detection of antibodies to: • Rh – Hr. • Kell • Duffy • Kidd • Lewis. • P • MN • Lutheran • Xg	Automated using NEO Iris analyser BTR-BSPS-SOP-126: Automated Blood Group Antibody Screen & Antibody ID using IBG Neo Automated using Immucor ECHO analysers using Capture technology for digital image analysis (STP and RSCH only) And Immucor NEO analysers using Capture technology for digital image analysis BTR-BSPS-SOP-126: Automated Blood Group Antibody Screen & Antibody ID using IBG Neo Analyser	RSCH FPH STP

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 to assist in clinical investigations (cont'd)	Procedures documented in manufacturer's equipment manuals in conjunction with documented in-house procedures by the following methods:	
Whole blood: EDTA samples	Antibody investigation by detection, identification and quantification of: • Rh – Hr. • Kell • Duffy • Kidd • Lewis. • P • MN • Lutheran • Xg	Automated using NEO Iris analyser BTR-BSPS-SOP-126: Automated Blood Group Antibody Screen & Antibody ID using IBG Neo Analyser Automated using Immucor ECHO analysers using Capture technology for digital image analysis (STP and RSCH only) And Immucor NEO analysers using Capture technology for digital image analysis BTR-BSPS-SOP-126: Automated Blood Group Antibody Screen & Antibody ID using IBG Neo Analyser	RSCH FPH STP
Whole blood: EDTA samples	Direct Antiglobulin Test (DAT)	Diamed Column gel IAT technology BTR-BSPS-SOP-112: Direct Antiglobulin Test (DAT)	FPH RSCH STP
Whole blood: EDTA samples	Antigen phenotyping: C, K, P1, CcEe, M, N, k, Ss, Jk, Fy, Kp, Lu	Manual using Diamed cards BTR-BSPS-SOP-115: Red Cell Phenotyping	FPH RSCH STP
Whole blood: EDTA samples	Foetal Maternal Haemorrhage	Acid Elution method BTR-RBH-SOP-024: Kleihauer film and related tests	FPH RSCH STP

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 to assist in clinical investigations (cont'd)	Procedures documented in manufacturer's equipment manuals in conjunction with documented in-house procedures by the following methods:	
Blood Plasma	Compatibility testing of patient's plasma with donor cells	Cross matching using Diamed column gel IAT technology BTR-BSPS-SOP-104: Serological Crossmatch BTR-BSPS-SOP-106: Electronic issue BTR-RBH-SOP-029: Electronic Issue and Serological Crossmatching of Red Cells BTR-BSPS-SOP-108: Emergency Issue of Blood	FPH RSCH
Blood Plasma	Compatibility testing of patient's plasma with donor cells	Cross matching using Automated Cross Match on NEO Iris analyser Diamed column gel IAT technology BTR-BSPS-SOP-104: Serological Crossmatch BTR-BSPS-SOP-106: Electronic issue BTR-RBH-SOP-029: Electronic Issue and Serological Crossmatching of Red Cells BTR-BSPS-SOP-108: Emergency Issue of Blood	STP

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 to assist in clinical investigations (cont'd)	Procedures documented in manufacturer's equipment manuals in conjunction with documented in-house procedures by the following methods:	
Whole blood: EDTA samples	Full Blood Count (FBC) analysis of the following parameters: White Blood Count(WBC) Haemoglobin(Hb) Platelet count(Plt) Red Cell Count(RBC) Haematocrit(Hct) Mean Cell Haemoglobin(MCH) Mean Cell Haemoglobin concentration (MCHC) Mean Cell Volume (MCV) Hypochromia % Neutrophil count Lymphocyte count Monocyte count Eosinophil count Basophil count Large unstained Cells (LUC) (Siemens only) Red cell Distribution Width (RDW) Reticulocyte count Citrated platelet count	Abbott Alinity Hq automated analyser HAE-BSPS-SOP-400	FPH RSCH STP
Whole blood: EDTA samples	Microscopical identification of normal and abnormal blood cell morphologies including microscopical WBC differential count	Automated staining using Hematek staining machine and blood film analysis HAE-BSPS-SOP-022: Use and maintenance of the Hematek staining machine	RSCH STP
Whole blood: EDTA samples	Microscopical identification of normal and abnormal blood cell morphologies including microscopical WBC differential count	Automated staining using Abbott Alinity HS and blood film analysis HAE-BSPS-SOP-402: Abbott Alinity HS Automated Slide Maker	FPH RSCH STP

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN BODY FLUIDS (cont'd)	<u>Haematological examinations for the purpose of clinical diagnosis</u>	Procedures documented in manufacturer's equipment manuals in conjunction with documented in-house procedures by the following methods:	
Whole blood: EDTA samples	Microscopical identification of normal and abnormal blood cell morphologies including microscopical WBC differential count	Automated Abbott Cellavision, HAE-BSPS-SOP-500: Cellavision	FPH
Whole blood: EDTA samples	Erythrocyte Sedimentation Rate (ESR)	Automated Starrsed analysers, modified Westergren method HAE-BSPS-SOP-003: Automated ESR using the StaRRsed Sarstedt microvette CB200 kit (manual) HAE-BSPS-SOP-010: Manual ESR Method	FPH RSCH STP
Whole blood: EDTA samples	Glandular fever - Detection of Infectious mononucleosis antibodies	ACCUSAY MONO Launch Diagnostics – using direct solid-phase immunoassay HAE-BSPS-SOP-018: Glandular Fever Screen	FPH RSCH STP
Whole blood: EDTA samples	Sickle cell solubility	S-Test Kit Microgen Bioproducts Solubility test / Sickle Test Kit Clin-Tech Ltd HAE-SPS-SOP-4 Documented -in-house methods to meet the requirements of the SCT screening programme as defined in the NHS Sickle Cell and Thalassaemia Screening Programme: laboratory quality assurance evidence requirements*	FPH RSCH STP
	Haemoglobinopathy analysis by detection of haemoglobin variants: Hb S and Hb C	*Automated TOSOH G11 analyser, HAE-BSPS-SOP-2: HAE-BSPS-SOP-3: HPLC reporting for Low Prevalence Trusts	FPH

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN BODY FLUIDS (cont'd)	Haematological examinations for the purpose of clinical diagnosis (cont'd)	Procedures documented in manufacturer's equipment manuals in conjunction with documented in-house procedures by the following methods:	
Bone marrow	Bone Marrow film characteristics for microscopical identification of normal and abnormal blood cell morphologies	Manual Perls' stain HAE-BSPS-SOP-001: Bone Marrow processing and reporting	FPH RSCH STP
	Bone Marrow film characteristics for microscopical identification of normal and abnormal blood cell morphologies	BM staining using Abbott Alinity HS, HAE, BSPS-SOP-001: Bone Marrow processing and reporting & HAE-BSPS-SOP-402: Abbott Alinity HS Automated Slide Maker	FPH
Urine	Haemosiderin	Manual Perl's stain HAE-BSPS-SOP-023: Perls stain (Bone marrow iron stain and urinary haemosiderin)	FPH
Whole blood: EDTA samples	Confirmation and Identification of Malaria parasites by detection of: P. falciparum (HRP1) & P. falciparum, P. vivax, P. malariae, P. ovale (pan-antigen)	Carestart US. Malaria Ag test Kit HAE-BSPS-SOP-007: Malarial Parasites	FPH RSCH STP

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN BODY FLUIDS (cont'd)	Haematological examinations for the purpose of clinical diagnosis (cont'd)	Procedures documented in manufacturer's equipment manuals in conjunction with documented in-house procedures by the following methods:	
Whole blood: EDTA samples	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.	Preparation of thick and thin films, VWR Giemsa R66 stain plus pH7.2 Buffer (thin films) Field' stain from TCS Biosciences Ltd (thick films) HAE-BSPS-SOP-007: Malarial Parasites	FPH RSCH STP
Whole blood: EDTA samples	G6PD	Fluorescence under UV light, Trinity Biotech Kit 203-A HAE-FPH/WPH-SOP-010: Glucose-6-phoSTPate dehydrogenase (G6PD) Assay`	FPH
Plasma	Prothrombin Time (PT) Activated Partial Thromboplastin Time (APTT) Fibrinogen (Clauss)	Automated Werfen ACL Top 550 analyser HAE-BSPS-SOP-300	FPH RSCH STP
Plasma	D-Dimer	HAE-BSPS-SOP-305: D-Dimer Assay on ACL TOP 50 Series Analysers	FPH STP
		Automated Werfen ACL TOP 750 analyser	FPH
Plasma	Factors VIII, IX, Xa	HAE-BSPS-SOP-311: Factor assays the ACL TOP 550	FPH
Plasma	Fibrinogen (Clauss)	HAE-BSPS-SOP-304: Fibrinogen on ACL TOP 50 Series Analysers	FPH
Plasma	Prothrombin Time (PT) International normalised ratio (INR)	HAE-BSPS-SOP-303: Prothrombin Time/INR on ACL TOP 50 Series Analyser	FPH
Plasma	Activated Partial Thromboplastin Time (APTT)	HAE-BSPS-SOP-302: APTT on ACL TOP 50 Series Analysers	FPH

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN BODY FLUIDS (cont'd)	Coagulation examinations for the purpose of clinical diagnosis (cont'd)	Procedures documented in manufacturer's equipment manuals in conjunction with documented in-house procedures by the following methods:	
Plasma	Thrombin Time (TT) Lupus anticoagulation	HAE-BSPS-SOP-310 Lupus anticoagulant Testing on the ACL TOP 550	STP
Plasma	Factors VIII, IX, Xa	ACL TOP 550. HAE-BSPSSOP-311: Factor Assays on the ACL TOP 50 Series	RSCH
		Automated ACL Top 550 analyser HAE-ASTP-SOP-008	STP
Plasma	Thrombophilia, AT3, Protein S and Free Protein C	HAE-BSPS-SOP-313 Thrombophilia Screen on the ACL TOP 550	STP
		Automated ACL Top 550 analyser HAE-ASTP-SOP-008	STP
Plasma	Thrombin Time (TT) Lupus anticoagulant (LA)	HAE-BSPS-SOP-310 Lupus anticoagulant Testing on the ACL TOP 550	STP
Plasma	Factors II, V, VII, VIII, IX, X, XI, XII, XIII, RiCof, Anti-Xa	HAE-BSPS-SOP-311 Factor Assays on the ACL TOP 550	STP
Plasma	Factor VIII Inhibitor.	HAE-ASTP-SOP-61 IL Factor 13 antigen Assay	STP
Plasma	DOACs: Apixaban, Rivaroxaban, Edoxaban and Dabigatron	HAE-BSPS-SOP-314 DOAC screening and quantification on the ACL TOP 550	STP
Plasma	Von Willebrand's screen (VWF:Ag)	HAE-BSPS-SOP-312 Von WIllebrand's Screen on the ACL TOP 550	STP
Plasma	D-Dimer.	HAE-BSPS-SOP-305: D-Dimer Assay on ACL TOP 50 Series Analysers	STP

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN BODY FLUIDS (cont'd)	Coagulation examinations for the purpose of clinical diagnosis (cont'd)	Procedures documented in manufacturer's equipment manuals in conjunction with documented in-house procedures by the following methods:	
Plasma	Collagen binding	Automated Acustar HAE-ASTP-SOP-52: AcuStar Collagen Binding Activity	STP
Whole blood (EDTA) and Buccal Swabs (RapiDri Isohelix)	Detection of: Mutations within codon 7 of the HBB gene - HbS and HbC for military recruits screening purposes	OptiGene Sickle Cell SNP - LAMP kit Genie HT LAMP system HAE-FPH-SOP-015	FPH
END			