


Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

 UKAS MEDICAL 8621 Accredited to ISO 15189:2012	Mid and South Essex NHS Foundation Trust	
	Issue No: 003 Issue date: 23 April 2020	
	Blood Sciences Department Broomfield Hospital Court Road Chelmsford CM1 7ET United Kingdom	Contact: Sarah Haigh Tel: +44 (0) 1245 515121 E-Mail: sarah.haigh9@nhs.net Website: www.meht.nhs.uk
Testing performed at the above address only		

Site activities performed away from the locations listed above:

Location details		Activity
Address Broomfield Hospital Court Road Chelmsford CM1 7ET	Contact Dean Braunig Tel: +44 (0) 1245 514714 E-Mail: Dean.Braunig@meht.nhs.uk	Management of blood fridges located in: Main Laboratory Main Reception Burns ITU Haematology Ward C351 Maternity Theatre
Address Braintree Community Hospital Braintree Essex CM7 2AL	Contact As above	Management of blood fridges
Address St Peter's Hospital Spital Road Maldon Essex CM9 6EG	Contact As above	Management of blood fridges
Address Baddow Hospital West Hanningfield Road Chelmsford Essex CM2 8HN	Contact As above	Management of blood fridges



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DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
HUMAN BODY FLUIDS (as stated)	<u>Biochemical examination activities for the purposes of clinical diagnosis.</u>	In house documented procedures based on Beckman DXC, DXI and other supplier's equipment manuals and standard methods as specified below:
	<u>General Biochemistry</u>	
	Quantification of:	
Serum / Plasma / Urine	Sodium	BS-BAUTO-EXT-33 using DXC (Ion Selective Electrode)
Serum / Plasma / Urine	Potassium	BS-BAUTO-EXT-40 using DXC (Ion Selective Electrode)
Serum / Plasma / Urine	Chloride	BS-BAUTO-EXT-39 using DXC (Ion Selective Electrode)
Serum / Plasma	Bicarbonate	BS-BAUTO-EXT-21 using DXC (Photometry)
Serum / Plasma / Urine	Calcium	BS-BAUTO-EXT-38 using DXC (Photometry)
Serum / Plasma / Urine	Urea	BS-BAUTO-EXT-63 using DXC (Photometry)
Serum / Plasma / Urine	Creatinine (Jaffe / enzymatic)	BS-BAUTO-EXT-22 (Jaffe) using DXC (Photometry) BS-BAUTO-EXT-78 (Enzymatic) using DXC (Photometry)
Serum / Plasma	Urate	BS-BAUTO-LP-15 using DXC (Photometry)
Serum / Plasma	Glucose	BS-BAUTO-EXT-5 using DXC (Photometry)
Serum / Plasma / Urine	Phosphate	BS-BAUTO-EXT-11 using DXC (Photometry)



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HUMAN BODY FLUIDS (as stated) (cont'd)	<u>Biochemical examination activities for the purposes of clinical diagnosis (cont'd)</u>	In house documented procedures based on Beckman DXC, DXI and other supplier's equipment manuals and standard methods as specified below:
Serum / Plasma	Bilirubin (total)	BS-BAUTO-EXT-65 using DXC (Photometry)
Serum / Plasma	Iron	BS-BAUTO-EXT-10 using DXC (Photometry)
Serum / Plasma	Iron binding capacity	BS-BAUTO-LP-4 using DXC (Photometry)
Urine	Micro total protein	BS-BAUTO-EXT-32 using DXC (Photometry)
Serum / Plasma	Total Protein	BS-BAUTO-EXT-36 using DXC (Photometry)
Serum / Plasma	Albumin	BS-BAUTO-EXT-60 using DXC (Photometry)
Serum / Plasma / Urine	Magnesium	BS-BAUTO-EXT-31 using DXC (Photometry)
Serum / Plasma	AST	BS-BAUTO-EXT-17 using DXC (Photometry)
Serum / Plasma	ALT	BS-BAUTO-EXT-41 using DXC (Photometry)
Serum / Plasma	LD	BS-BAUTO-EXT-8 using DXC (Photometry)
Serum / Plasma	CK	BS-BAUTO-EXT-20 using DXC (Photometry)
Serum / Plasma	ALP	BS-BAUTO-EXT-61 using DXC (Photometry)



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HUMAN BODY FLUIDS (as stated) (cont'd)	<u>Biochemical examination activities for the purposes of clinical diagnosis (cont'd)</u>	In house documented procedures based on Beckman DXC, DXI and other supplier's equipment manuals and standard methods as specified below:
Serum / Plasma / Urine	Amylase	BS-BAUTO-EXT-9 using DXC (Photometry)
Serum / Plasma	GGT	BS-BAUTO-EXT-7 using DXC (Photometry)
Serum / Plasma	Cholesterol (total)	BS-BAUTO-EXT-19 using DXC (Photometry)
Serum / Plasma	Triglyceride	BS-BAUTO-EXT-13 using DXC (Photometry)
Serum / Plasma	HDL	BS-BAUTO-EXT-27 using DXC (Photometry)
Urine	Micro albumin	BS-BAUTO-EXT-30 using DXC (Photometry)
Plasma	Ammonia	BS-BAUTO-LP-7 using DXC (Photometry) BS-BAUTO-EXT-62 using DXC (Photometry)
Serum / Urine	Osmolality	BS-BAUTO-LP-1 Using Advanced Osmometer 3320
Whole blood (EDTA)	Haemoglobin A1C	BS-SHAEM-LP1 using HPLC – sphedix column technique on Menarini HB9210
	<u>Therapeutic Drugs</u>	In house documented procedures based on Beckman DXC, DXI and other supplier's equipment manuals and standard methods as specified below:
	Quantification of:	
Serum / Plasma	Carbamazepine	BS-BAUTO-EXT-18 using DXC (Photometry)



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HUMAN BODY FLUIDS (as stated) (cont'd)	<u>Biochemical examination activities for the purposes of clinical diagnosis (cont'd)</u>	In house documented procedures based on Beckman DXC, DXI and other supplier's equipment manuals and standard methods as specified below:
Serum / Plasma	Phenytoin	BS-BAUTO-EXT-35 using DXC (Photometry)
Serum / Plasma	Phenobarbitone	BS-BAUTO-EXT-34 using DXC (Photometry)
Serum / Plasma	Valproate	BS-BAUTO-EXT-37 using DXC (Photometry)
Serum / Plasma	Digoxin	BS-BAUTO-EXT-25 using DXC (Photometry)
Serum / Plasma	Lithium	BS-BAUTO-LP-2 using DXC (Photometry)
	<u>Routine Toxicology</u>	
	Quantification of:	In house documented procedures based on Beckman DXC, DXI and other supplier's equipment manuals and standard methods as specified below:
Plasma	Ethanol	BS-BAUTO-EXT-64 using DXC (Photometry)
Serum / Plasma	Paracetamol	BS-BAUTO-EXT-59 using DXC (Photometry)
Serum / Plasma	Salicylate	BS-BAUTO-EXT-12 using DXC (Photometry)
HUMAN BODY FLUIDS (as stated)	<u>Specific Proteins</u>	
	Quantification of:	In house documented procedures based on Beckman DXC, DXI and other supplier's equipment manuals and standard methods as specified below:
Serum / Plasma	IgG	BS-BAUTO-EXT-29 using DXC (Photometry)



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<p>HUMAN BODY FLUIDS (as stated) (cont'd)</p> <p>Serum / Plasma</p> <p>Serum / Plasma</p> <p>Serum / Plasma</p> <p>Serum / Plasma</p> <p>Serum / Plasma</p> <p>Serum / Urine</p> <p>Serum / Urine</p> <p>Serum</p>	<p><u>Biochemical examination activities for the purposes of clinical diagnosis (cont'd)</u></p> <p>IgA</p> <p>IgM</p> <p>C3</p> <p>C4</p> <p>CRP</p> <p>Paraprotein detection</p> <p>Paraprotein / Light Chain typing by Immunofixation, as below: IgG IgM IgA Kappa Lambda</p> <p>Paraprotein quantification</p>	<p>In house documented procedures based on Beckman DXC, DXI and other supplier's equipment manuals and standard methods as specified below:</p> <p>BS-BAUTO-EXT-28 using DXC (Photometry)</p> <p>BS-BAUTO-EXT-16 using DXC (Photometry)</p> <p>BS-BAUTO-EXT-67 using DXC (Photometry)</p> <p>BS-BAUTO-EXT-6 using DXC (Photometry)</p> <p>BS-BAUTO-EXT-23 using DXC (Photometry)</p> <p>BS-PROT-LP-2 and BS-PROT-LP-3 using Sebia Hydrasys electrophoresis</p> <p>BS-PROT-LP-4 using Sebia Hydrasys electrophoresis</p> <p>Sebia Hydrasys electrophoresis-densitometry BS-PROT-LP-2 BS-PROT-LP-4</p>



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HUMAN BODY FLUIDS (as stated) (cont'd)	<u>Biochemical examination activities for the purposes of clinical diagnosis (cont'd)</u>	In house documented procedures based on Beckman DXC, DXI and other supplier's equipment manuals and standard methods as specified below:
CSF	Protein	BS-BAUTO-EXT-36 using DXC (Photometry)
CSF	Glucose	BS-BAUTO-LP-14 using DXC (Photometry)
	<u>Immunoassays</u>	In house documented procedures based on Beckman DXC, DXI and other supplier's equipment manuals and standard methods as specified below:
	Quantification of:	
Serum / Plasma	Cortisol	BS-BAUTO-EXT-1 using DXI (Immunoassay)
Urine	Urine Cortisol	BS-PROT-LP-1 using DXI (Immunoassay)
Serum / Plasma	Progesterone	BS-BAUTO-EXT-15 using DXI (Immunoassay)
Serum / Plasma	Oestradiol	BS-BAUTO-EXT-56 using DXI (Immunoassay)
Serum / Plasma	Testosterone	BS-BAUTO-EXT-69 using DXI (Immunoassay)
Serum / Plasma	SHBG	BS-BAUTO-EXT-57 using DXI (Immunoassay)
Serum / Plasma	Troponin T (high sensitivity)	BS-BAUTO-LP-12 using Roche e411 (Immunoassay)
Serum / Plasma	NT-proBNP	BS-BAUTO-LP-11 using Roche e411 (Immunoassay)



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Serum / Plasma	B12	BS-BAUTO-EXT-42 using DXI (Immunoassay)
Serum / Plasma	Folate	BS-BAUTO-EXT-53 using DXI (Immunoassay)
Serum / Plasma	Ferritin	BS-BAUTO-EXT-52 using DXI (Immunoassay)
Serum / Plasma	Amikacin	BS-BAUTO-LP-3 using DXC (Photometry)
Serum / Plasma	Gentamicin	BS-BAUTO-EXT-26 using DXI (Immunoassay)
Serum / Plasma	Vancomycin	BS-BAUTO-EXT-66 using DXI (Immunoassay)
Serum / Plasma	AFP	BS-BAUTO-EXT-44 using DXI (Immunoassay)
Serum / Plasma	HCG	BS-BAUTO-EXT-3 using DXI (Immunoassay)
Serum / Plasma	CEA	BS-BAUTO-EXT-46 using DXI (Immunoassay)
Serum / Plasma	Ca125	BS-BAUTO-EXT-49 using DXI (Immunoassay)
Serum / Plasma	Ca153	BS-BAUTO-EXT-45 using DXI (Immunoassay)
Serum / Plasma	Ca199	BS-BAUTO-EXT-47 using DXI (Immunoassay)



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Serum / Plasma	PSA	BS-BAUTO-EXT-54 using DXI (Immunoassay)
Serum / Plasma	TSH	BS-BAUTO-EXT-48 using DXI (Immunoassay)
Serum / Plasma	FT4	BS-BAUTO-EXT-4 using DXI (Immunoassay)
Serum / Plasma	PTH	BS-BAUTO-EXT-55 using DXI (Immunoassay)
Serum / Plasma	FSH	BS-BAUTO-EXT-50 using DXI (Immunoassay)
Serum / Plasma	LH	BS-BAUTO-EXT-51 using DXI (Immunoassay)
Serum / Plasma	Prolactin	BS-BAUTO-EXT-68 using DXI (Immunoassay)
HUMAN BODY FLUIDS (as stated) (cont'd)	Antenatal & Newborn Screening	Documented -in-house methods to meet the requirements of the Down's syndrome, Edwards syndrome and Patau's syndrome screening programmes as defined in the August 2018 NHS Fetal Anomaly Screening Programme: laboratory QA evidence requirements
Serum / Plasma	Free beta hCG	BS-DOWN-PR-11 using Roche e411 (Immunoassay)
Serum / Plasma	PAPP-A	BS-DOWN-PR-11 using Roche e411 (Immunoassay)



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HUMAN BODY FLUIDS (as stated) (cont'd)	<u>Biochemical examination activities for the purposes of clinical diagnosis (cont'd)</u>	In house documented procedures based on supplier's equipment manuals and standard methods as specified below:
	<u>Catecholamines</u>	In house documented procedures based on supplier's equipment manuals and standard methods as specified below:
Urine	Quantification of: Noradrenaline	BS-DOWN-LP-2 using Jasco HPLC
Urine	Adrenaline	BS-DOWN-LP-2 using Jasco HPLC
Urine	Dopamine	BS-DOWN-LP-2 using Jasco HPLC
Urine	5HIAA	BS-DOWN-LP-3 using Jasco HPLC
	<u>Calculated Examinations</u>	In house documented procedures based on equipment manuals and standard methods as specified below:
Serum / Plasma	Adjusted Calcium	BS-CLIN-GU-13 using Clinisys Winpath
Serum / Plasma	Globulin	BS-CLIN-GU-13 using Clinisys Winpath
Serum / Plasma	eGFR	BS-CLIN-GU-13 using Clinisys Winpath
Serum / Plasma	AKI	BS-CLIN-GU-13 using Clinisys Winpath
Serum / Plasma	HDL ratio	BS-CLIN-GU-13 using Clinisys Winpath
Serum / Plasma	TIBC	BS-CLIN-GU-13 using Clinisys Winpath
Serum / Plasma	Iron saturation and Transferrin	BS-CLIN-GU-13 using Clinisys Winpath
Serum / Plasma / Urine	Creatinine Clearance	BS-CLIN-GU-13 using Clinisys Winpath
Serum / Plasma / Urine	Urine Protein-Creatinine Ratio	BS-CLIN-GU-13 using Clinisys Winpath
Serum / Plasma / Urine	Micro albumin /creatinine Ratio	BS-CLIN-GU-13 using Clinisys Winpath
Urine	Acid urine calculations	BS-DOWN-LP-2 & BS-DOWN-LP-3 using Clinisys Winpath



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HUMAN BODY FLUIDS (as stated) (cont'd)	<u>Immunological examination activities for the purposes of clinical diagnosis (cont'd)</u>	In house documented procedures based on equipment manuals and standard methods as specified below:
	<u>Autoimmune Testing</u>	All assays performed according to BS-IMM-LP-6 & BS-IMM-LP-11 using Phadia 250 - Enzyme Immunoassay (EliA method) unless stated otherwise
Serum	Quantification of: ANA Screen	
Serum	ENA Screen	
Serum	dsDNA antibodies	
Serum	Cardiolipin IgG antibodies	
Serum	Cardiolipin IgM antibodies	BS-IMM-LP-10 using Phadia 250 - Enzyme Immunoassay (EliA method)
Serum	TTG IgA antibodies	BS-IMM-LP-9 using Phadia 250 - Enzyme Immunoassay (EliA method)
Serum	TTG IgG antibodies	
Serum	CCP antibodies	
Serum	GBM antibodies	
Serum	MPO antibodies	
Serum	PR3 antibodies	
Serum	TPO antibodies	BS-IMM-LP-12 (Specific IgG method) using Phadia 250
Serum	ENA profile antibodies	BS-IMM-LP-2 using EUROBlot Master – Immunoblot
Serum	Liver specific antibodies	BS-IMM-LP-3 using EUROBlot Master – Immunoblot



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HUMAN BODY FLUIDS (as stated) (cont'd)	<u>Immunological examination activities for the purposes of clinical diagnosis (cont'd)</u>	In house documented procedures based on equipment manuals and standard methods as specified below:
Serum	Neuronal antibodies	BS-IMM-LP-4 using EUROBlot Master – Immunoblot
Serum	<u>Immunological examination activities for the purposes of clinical diagnosis.</u> <u>Allergy testing</u> Detection and quantification of specific IgE to the following allergens: A. Alternaria A. Fumigatus Almond Amoxicillin Animal Mix Animal Mix (Domestic) Anise Api M1 Honey Bee Apple Apricot Ara H2 (Storage Protein Peanut) Ara H8 (Pr10 Peanut) Ara H9 (Ltp Peanut) Aspergillus Niger Avocado Banana Barley Basil Bayleaf Bee (Honey) Beef Bean (Red Kidney Bean) Bean (White Bean) Bean (Green Bean) Bet V1 (Pr10 ,Birch)	In house documented procedures based on equipment manuals and standard methods as specified below: BS-IMM-LP-5 (Specific IgE method) using Phadia 250 – Enzyme Immunoassay



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<p>HUMAN BODY FLUIDS (as stated) (cont'd)</p> <p>Serum</p>	<p><u>Immunological examination activities for the purposes of clinical diagnosis.</u> (cont'd)</p> <p>Detection and quantification of specific IgE to the following allergens (cont'd):</p> <p>Bet V2 (Profilin, Birch) Bird Feather Mix Birch (Common Silver Birch) Blueberry Blue Mussel Box Elder Brazil Nut Broccoli Buckwheat Budgerigar C. Herbarum Cacao Canary Candida Albicans Capsicum (Sweet Red Pepper, Paprika) Cardamon Carrot Cashew Cat Dander Ccd Cefaclor Celery Cheese (Cheddar) Cheese (Mould Type) Cherry Chestnut (Sweet Chestnut) Chicken Chickpea Chilli Pepper Chlorhexidine Cladosporium Herbarum Clove Coconut</p>	<p>In house documented procedures based on equipment manuals and standard methods as specified below:</p> <p>BS-IMM-LP-5 (Specific IgE method) using Phadia 250 – Enzyme Immunoassay</p>



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Serum	Detection and quantification of specific IgE to the following allergens (cont'd): Rat Red Kidney Bean Rye-Grass S. Rostrata Salmon Sardine (Pilchard) Sesame Seed Scallop Sheep's Milk Shrimp Soybean Spelt Wheat Squid Strawberry Sunflower Seed Sweet Chestnut Sweet Vernal Grass Timothy Grass Tomato Tree Mix Tuna Velvet Grass Ves V1 Wasp Ves V5 Wasp Walnut Wasp (Common) Weed Mix Wheat White Bean Yeast (Saccharomyces Serevisiae)	BS-IMM-LP-5 (Specific IgE method) using Phadia 250 – Enzyme Immunoassay
Serum	Total IgE	BS-IMM-LP-5 (Specific IgE method) using Phadia 250 – Enzyme Immunoassay



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<p>HUMAN BODY FLUIDS (cont'd)</p> <p>Serum</p> <p>Serum</p> <p>Serum</p> <p>Serum</p> <p>Serum</p>	<p><u>Immunological examination activities for the purposes of clinical diagnosis.</u></p> <p><u>Tissue Autoantibodies</u></p> <p>Antinuclear antibodies</p> <p>Gastric Parietal Cell antibodies</p> <p>Mitochondria antibodies</p> <p>Smooth Muscle antibodies</p> <p>Liver Kidney Microsomal antibodies</p>	<p>All assays performed according to: BS-IMM-PR-29, BS-IMM-LP-7 & BS-IMM-LP-13 using HTZ320 Slide processor- Indirect Immunofluorescence.</p>



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
<p>HUMAN BODY FLUIDS (cont'd)</p> <p>Whole Blood (EDTA)</p> <p>Whole Blood (EDTA)</p> <p>Whole Blood (EDTA)</p>	<p><u>General Haematology examination activities for the purpose of clinical diagnosis</u></p> <p>Haematology examination activities for the purposes of clinical diagnosis using Full Blood Count Analysis (FBC) of the Following Parameters:</p> <p>White Blood Cell (WBC) Count Red Blood Cell (RBC) Count Haemoglobin (Hb) Haematocrit (Hct) Mean Cell Volume (MCV) Mean Cell Haemoglobin (MCH) Mean Cell Haemoglobin Concentration (MCHC) Red Cell Distribution Width (RDWCV) Platelets Neutrophils Lymphocytes Monocytes Eosinophils Basophils Reticulocytes Nucleated red blood cell (NRBC) count</p> <p>Erythrocyte Sedimentation Rate (ESR)</p> <p>Microscopical identification of normal and abnormal blood cell morphologies including microscopical WBC differential count</p>	<p>Documented in-house methods and manufacturer's operating instructions as specified to support clinical diagnosis:</p> <p>All assays performed according to: BS RHAEM LP 5 using Sysmex XN1000 & XN2000 analysers – Fluorescence, impedance flow cytometry</p> <p>BS RHAEM LP 4 & BS RHAEM LP 10 using Beckman Coulter Alifax – Stopped flow kinetic analysis</p> <p>BS RHAEM LP6 / LP 9 using Glass slide – wedge stained blood films – Manual and automated using Sysmex SP-10</p>



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
HUMAN BODY FLUIDS (cont'd)	<u>General Haematology examination activities for the purpose of clinical diagnosis (cont'd)</u>	Documented in-house methods and manufacturer's operating instructions as specified to support clinical diagnosis:
Whole Blood (EDTA)	Blood film characteristics and morphology for detection of malarial parasite	BS RHAEM LP 1 using thick film examination, microscopical identification as well as wedge stained blood films – Manual and automated using Sysmex SP-10 and CareStart Rapydtest RDT kit.
Bone Marrow (EDTA)	Bone Marrow film characteristics for microscopical identification of normal and abnormal blood cell morphologies	BS RHAEM LP 6 & BS RHAEM LP 8 using Glass slide – wedge stained film MGG and Perls' Iron – Manual staining
Whole Blood (EDTA)	Glandular fever - Detection of Infectious mononucleosis antibodies	BS RHAEM LP 3 using Accusay Mono - Direct solid phase immunoassay technique
Whole Blood (EDTA)	Quantification of fetal-maternal haemorrhage (Kleihauer Screen)	Kleihauer testing by manual acid elution technique followed by microscopy using GUEST Medical Kit - SOP BS RHAEM LP 3
Whole Blood (EDTA)	Detection and identification of abnormal haemoglobin (Sickle cell)	Sickle cell screening test - BS SHAEM LP 2 using manual ITANO turbidity technique
Whole Blood (EDTA)	Haemoglobinopathy screen (Sickle / Thalassaemia)	BS SHAEM LP 5 using HPLC – sphedix column technique on Menarini HB9210



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
HUMAN BODY FLUIDS (cont'd)	<p><u>General Haematology examination activities for the purpose of clinical diagnosis (cont'd)</u></p> <p><u>Coagulation Screen</u></p>	<p>Documented in-house methods and manufacturer's operating instructions as specified to support clinical diagnosis:</p> <p>All assays performed according to: BS COAG LP 3 BS COAG PR 7 BS COAG PR 8 using IL-TOPS – Werfen Analysers – Differential optic absorption technique unless stated otherwise.</p>
Citrated plasma	Prothrombin Time (PT)	
Citrated plasma	Activated Partial Prothrombin Time (APTT)	
Citrated plasma	Mixing studies using 50:50 Normal pooled plasma: patient plasma for the investigation of deranged PT &/or APTT results.	LP-210-008 using IL-TOPS – Werfen Analyser
Citrated plasma	International Normalised Ratio (INR)	
Citrated plasma	Fibrinogen	
Citrated plasma	D-Dimer	
Citrated plasma	Factor Assays: II, V, VII, VIII, IX, X, XI, XII, XIII	BS COAG LP 5 using IL-TOPS – Werfen Analyser
Citrated plasma	Low Molecular Weight Heparin Test	BS COAG LP 5 using IL-TOPS – Werfen Analyser
Citrated plasma	Lupus Anticoagulant	BS COAG LP 6 using IL-TOPS – Werfen Analyser
Citrated plasma	Protein C & Protein S Assays Antithrombin Test	BS COAG LP 7 using IL-TOPS – Werfen Analyser - Differential optic absorption technique and chromogenic assays



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
HUMAN BODY FLUIDS (cont'd)	<u>Blood Transfusion</u> <u>Examinations to assist in</u> <u>Clinical Investigations</u>	In house documented procedures based on equipment manuals and standard methods as specified below:
Whole Blood (EDTA)	Blood Grouping and Antibody Screen	BS BT LP 15, BS BT LP 8 & BS BT LP 3 – Automated, using the BioRad IH-1000 and BioRad Gel Station BS BT LP 13 – Manual Group and Screen
Whole Blood (EDTA)	Identification of antibodies: D /C /E /c /e /Cw /K /k /Kpa /Kpb /Jsa /Jsb / Fya /Fyb /Jka /Jkb /Lea /Leb /P1 /M /N /S /s / Lua /Lub / Xga / auto antibodies	BS BT LP 7 BS BT LP 9 BS BT LP 14 - Manual using BioRad Gelstation and gel card technology with NHSBT panel cells or Prophylax panels for pregnant mums on RAADP
Whole Blood (EDTA)	Phenotyping by antigen detection for antigens: (D /C /E /c /e /K / Fya /Fyb /Jka /Jkb /M /N /S /s/ Lea / Leb A1)	BS BT LP 7 BS BT LP 9 BS BT LP 14 - Manual using BioRad Gelstation and gel card technology with NHSBT detection material
Whole Blood (EDTA)	Cross-matching of patient sample with donor units	BS BT LP 11 – Manual using BioRad gel card technology
Whole Blood (EDTA)	Baby Blood Group with Direct Antiglobulin Test	BS BT LP 4 – Manual using BioRad gel card technology
Whole Blood (EDTA)	Direct Antiglobulin Test	BS BT LP 8 & BS BT LP 15 – Automated, using the BioRad IH-1000 and BioRad Gel Station BS BT LP 16 – Manual using BioRad gel card technology
Whole Blood (EDTA)	Antibody Titration	BS BT LP 1 - Manual using BioRad gel card technology

END