


Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

 Accredited to ISO 15189:2012	Mid and South Essex NHS Foundation Trust	
	Issue No: 005 Issue date: 29 June 2023	
	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 As above	Management of blood fridges located in: Main Laboratory Main Reception Burns ITU Haematology Ward C542 Maternity Theatre
Address Braintree Community Hospital Braintree Essex CM7 2AL	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> <u>General Biochemistry</u> Quantification of:	In house documented procedures based on Beckman AU, DXI and other supplier's equipment manuals and standard methods as specified below:
Serum / Plasma / Urine	Potassium	BS-BAUTO-EXT-40 using AU (Ion Selective Electrode)
Serum / Plasma / Urine	Chloride	BS-BAUTO-EXT-39 using AU (Ion Selective Electrode)
Serum / Plasma	Bicarbonate	BS-BAUTO-EXT-21 using AU (Photometry)
Serum / Plasma / Urine	Calcium	BS-BAUTO-EXT-38 using AU (Photometry)
Serum / Plasma / Urine	Urea	BS-BAUTO-EXT-63 using AU (Photometry)
Serum / Plasma / Urine	Creatinine (Jaffe / enzymatic)	BS-BAUTO-EXT-22 (Jaffe) using AU (Photometry) BS-BAUTO-EXT-78 (Enzymatic) using AU (Photometry)
Serum / Plasma	Urate	BS-BAUTO-LP-15 using AU (Photometry)
Serum / Plasma	Glucose	BS-BAUTO-EXT-5 using AU (Photometry)
Serum / Plasma / Urine	Phosphate	BS-BAUTO-EXT-11 using AU (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 AU, DXI and other supplier's equipment manuals and standard methods as specified below:
Serum / Plasma	Bilirubin (total)	BS-BAUTO-EXT-65 using AU (Photometry)
Serum / Plasma	Iron	BS-BAUTO-EXT-10 using AU (Photometry)
Serum / Plasma	Iron binding capacity	BS-BAUTO-LP-4 using AU (Photometry)
Urine	Micro total protein	BS-BAUTO-EXT-32 using AU (Photometry)
Serum / Plasma	Total Protein	BS-BAUTO-EXT-36 using AU (Photometry)
Serum / Plasma	Albumin	BS-BAUTO-EXT-60 using AU (Photometry)
Serum / Plasma / Urine	Magnesium	BS-BAUTO-EXT-31 using AU (Photometry)
Serum / Plasma	AST	BS-BAUTO-EXT-17 using AU (Photometry)
Serum / Plasma	ALT	BS-BAUTO-EXT-41 using AU (Photometry)
Serum / Plasma	LD	BS-BAUTO-EXT-8 using AU (Photometry)
Serum / Plasma	CK	BS-BAUTO-EXT-20 using AU (Photometry)
Serum / Plasma	ALP	BS-BAUTO-EXT-61 using AU (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 AU, DXI and other supplier's equipment manuals and standard methods as specified below:
Serum / Plasma / Urine	Amylase	BS-BAUTO-EXT-9 using AU (Photometry)
Serum / Plasma	GGT	BS-BAUTO-EXT-7 using AU (Photometry)
Serum / Plasma	Cholesterol (total)	BS-BAUTO-EXT-19 using AU (Photometry)
Serum / Plasma	Triglyceride	BS-BAUTO-EXT-13 using AU (Photometry)
Serum / Plasma	HDL	BS-BAUTO-EXT-27 using AU (Photometry)
Plasma	Ammonia	BS-BAUTO-LP-7 using AU (Photometry) BS-BAUTO-EXT-62 using AU (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 AU, DXI and other supplier's equipment manuals and standard methods as specified below:
Serum / Plasma	Quantification of: Carbamazepine	BS-BAUTO-EXT-18 using AU (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 AU, DXI and other supplier's equipment manuals and standard methods as specified below:
Serum / Plasma	Phenytoin	BS-BAUTO-EXT-35 using AU (Photometry)
Serum / Plasma	Phenobarbitone	BS-BAUTO-EXT-34 using AU (Photometry)
Serum / Plasma	Valproate	BS-BAUTO-EXT-37 using AU (Photometry)
Serum / Plasma	Digoxin	BS-BAUTO-EXT-25 using AU (Photometry)
Serum / Plasma	Lithium	BS-BAUTO-LP-2 using AU (Photometry)
	<u>Routine Toxicology</u>	
	Quantification of:	In house documented procedures based on Beckman AU, DXI and other supplier's equipment manuals and standard methods as specified below:
Serum / Plasma	Paracetamol	BS-BAUTO-EXT-59 using AU (Photometry)
Serum / Plasma	Salicylate	BS-BAUTO-EXT-12 using AU (Photometry)
HUMAN BODY FLUIDS (as stated)	<u>Specific Proteins</u>	
	Quantification of:	In house documented procedures based on Beckman AU, DXI and other supplier's equipment manuals and standard methods as specified below:



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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 AU, DXI and other supplier's equipment manuals and standard methods as specified below:
Serum / Plasma	IgA	BS-BAUTO-EXT-28 using AU (Photometry)
Serum / Plasma	IgM	BS-BAUTO-EXT-16 using AU (Photometry)
Serum / Plasma	C3	BS-BAUTO-EXT-67 using AU (Photometry)
Serum / Plasma	C4	BS-BAUTO-EXT-6 using AU (Photometry)
Serum / Urine	Paraprotein detection	BS-PROT-LP-2 and BS-PROT-LP-3 using Sebia Hydrasys electrophoresis
Serum / Urine	Paraprotein / Light Chain typing by Immunofixation, as below: IgG IgM IgA Kappa Lambda	BS-PROT-LP-4 using Sebia Hydrasys electrophoresis
Serum	Paraprotein quantification	Sebia Hydrasys electrophoresis-densitometry BS-PROT-LP-2 BS-PROT-LP-4
Serum	Kappa & Lambda Serum Free Light Chains	BS-PROT-LP-9 using the Binding Site SPA- Plus analyser



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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 AU, DXI and other supplier's equipment manuals and standard methods as specified below:
CSF	Protein	BS-BAUTO-EXT-36 using AU (Photometry)
CSF	<u>Xanthochromia</u>	Spectrophotometry using Northstar Spectrophotometer – SOPs: BS-BAUTO-TM-21 BS-BAUTO-CA-15
	<u>Immunoassays</u>	In house documented procedures based on Beckman AU, DXI and other supplier's equipment manuals and standard methods as specified below:
Serum / Plasma	Quantification of: Cortisol	BS-BAUTO-EXT-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)
Faeces	Faecal Immunochemical Testing (FIT) for quantification of human globin	Using Alpha Labs HMJackarc equipment and SOP BS-PROT-LP-10 for testing of referred symptomatic patients



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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 AU (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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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 AU, DXI and other supplier's equipment manuals and standard methods as specified below:
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:
	Quantification of:	
Urine	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	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
Serum	<u>Anti TPO antibodies</u>	BS-IMM-LP-11 (ELiA method) using Phadia 250



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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
	<u>Immunological examination activities for the purposes of clinical diagnosis.</u>	In house documented procedures based on equipment manuals and standard methods as specified below:
Serum	<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)	BS-IMM-LP-5 (Specific IgE method) using Phadia 250 – Enzyme Immunoassay



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HUMAN BODY FLUIDS (as stated) (cont'd)	<u>Immunological examination activities for the purposes of clinical diagnosis.</u> (cont'd)	In house documented procedures based on equipment manuals and standard methods as specified below:
Serum	<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>BS-IMM-LP-5 (Specific IgE method) using Phadia 250 – Enzyme Immunoassay</p>



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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>Cod Coffee Common Silver Birch Cor A1 (Pr10, Hazel Nut) Cor A8 (Ltp, Hazel Nut) Cor A9 (Storage Protein Hazel Nut) Cor A14 (Storage Protein Hazel Nut) Coriander Cow Dander Cow's Milk Crab Cucumber Cultivated Rye Curry Mix Dog Dander Domestic Animal Mix Egg White Egg Yolk European Hornet Finch Feathers Fish Mix Food Mix (General) Gal D1 (Ovomucoid, Egg White) Garlic Ginger Gluten Goat's Milk Goldenrod Goosefoot Grain Mix Grape Grapefruit Green Bean</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	<p>Detection and quantification of specific IgE to the following allergens (cont'd):</p> <p>Grass Mix Guinea Pig Epith Gum Arabic Hamster Hazel (Tree) Hazel Nut Horse Dander House Dust Mite KIDNEY BEAN (Red) Kiwi Lamb/Mutton Latex Lemon Lentils Lobster London Plane (Maple Leaf Sycamore) Lupin Seed Mackerel Macademia Nut Maize Mandarin Mango Melon Mint Mould Mix Mouse Mugwort Mussel (Blue Mussel) Mushroom Mustard Nettle Nut Mix Oak Oat Olives (Black)</p>	<p>BS-IMM-LP-5 (Specific IgE method) using Phadia 250 – Enzyme Immunoassay</p>



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Serum	<p>Detection and quantification of specific IgE to the following allergens (cont'd):</p> <p>Omega-5-Gliadin (Tri A19, Wheat) Onion Orange Oregano Oyster P. Chrysogenum Papaya PAPRIKA (Vegetable – Red/Green/Bell Pepper) Parrot Feathers Pea Peach Peanut Pear Pecan Penicillin G Penicillin V Phl P1, P5b Pine Nut Pineapple Pistachio Plantain Plum Poppy Seed Pork Potato Pru P3 Ltp Peach Pumpkin Seed Rabbit (Epithelium) Rabbit (Meat) Ragweed Rape (Pollen) Rape Seed Raspberry Rice</p>	<p>BS-IMM-LP-5 (Specific IgE method) using Phadia 250 – Enzyme Immunoassay</p>



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HUMAN BODY FLUIDS (as stated) (cont'd)	<u>Immunological examination activities for the purposes of clinical diagnosis.</u> (cont'd)	In house documented procedures based on equipment manuals and standard methods as specified below:
Serum	<p>Detection and quantification of specific IgE to the following allergens (cont'd):</p> <p>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)</p>	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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HUMAN BODY FLUIDS (cont'd)	<u>Immunological examination activities for the purposes of clinical diagnosis.</u> <u>Tissue Autoantibodies</u> Antinuclear antibodies Gastric Parietal Cell antibodies Mitochondria antibodies Smooth Muscle antibodies Liver Kidney Microsomal antibodies <u>DsDNA antibodies</u>	All assays performed according to: BS-IMM-PR-29, BS-IMM-LP-7 & BS-IMM-LP-13 using HTZ320 Slide processor- Indirect Immunofluorescence.
Serum		
Serum		
Serum		
Serum		
Serum		
Serum		



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HUMAN BODY FLUIDS (cont'd)	<u>General Haematology examination activities for the purpose of clinical diagnosis</u>	Documented in-house methods and manufacturer's operating instructions as specified to support clinical diagnosis:
Whole Blood (EDTA)	Haematology examination activities for the purposes of clinical diagnosis using Full Blood Count Analysis (FBC) of the Following Parameters: 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	All assays performed according to: BS RHAEM LP 5 using Sysmex XN1000 & XN2000 analysers – Fluorescence, impedance flow cytometry
Whole Blood (EDTA)	Erythrocyte Sedimentation Rate (ESR)	BS RHAEM LP 4 & BS RHAEM LP 10 using Beckman Coulter Alifax – Stopped flow kinetic analysis
Whole Blood (EDTA)	Microscopical identification of normal and abnormal blood cell morphologies including microscopical WBC differential count	BS RHAEM LP6 / LP 9 using Glass slide – wedge stained blood films – Manual and automated using Sysmex SP-10



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Issue No: 005 Issue date: 29 June 2023

Testing performed by the Organisation at the locations specified

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 / Thalassemia)	Documented -in-house methods to meet the requirements of the SCT screening programme as defined in the July 2018 NHS Sickle Cell and Thalassemia Screening Programme: laboratory quality assurance evidence requirements BS SHAEM LP 5 using HPLC on Primus Ultra 2 analyser



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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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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		