


Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

 8082 Accredited to ISO 15189:2012	Hampshire Hospitals NHS Foundation Trust Issue No: 017 Issue date: 19 December 2023	
	Pathology Basingstoke & North Hampshire Hospital Aldermaston Road Basingstoke RG24 9NA	Contact: Mark Sidwell Tel: +44 (0) 1256 313 284 Fax: +44 (0) 1256 313 905 E-Mail: mark.sidwell@hhft.nhs.uk Website: www.hampshirehospitals.nhs.uk
Testing performed by the Organisation at the locations specified below		

Locations covered by the organisation and their relevant activities

Laboratory locations: Location details	Activity	Location code
<p>Haematology & Blood Transfusion Basingstoke & North Hampshire Hospital Level B Aldermaston Road Basingstoke RG24 9NA</p>	<p>Local contact As above</p> <p>Haematology Coagulation Blood Transfusion Blood Transfusion Issue Fridge</p>	BNHH
<p>Biochemistry Basingstoke & North Hampshire Hospital Level B Aldermaston Road Basingstoke RG24 9NA</p>	<p>Local contact As above</p> <p>Biochemistry Immunology</p>	BNHH
<p>Cellular Pathology Department Basingstoke and North Hampshire Hospital Aldermaston Road Basingstoke RG24 9NA</p>	<p>Local contact Jeff Morrison</p> <p>Diagnostic cytology (receipt and reporting only) Pathologist and BMS cut up Frozen section OSNA Histopathology reporting</p>	BNHH
<p>Haematology & Blood Transfusion Royal Hampshire County Hospital Romsey Road Winchester SO22 5DG</p>	<p>Local contact As above</p> <p>Haematology Coagulation Blood Transfusion Blood Transfusion Issue Fridge</p>	RHCH
<p>Biochemistry Royal Hampshire County Hospital Romsey Road Winchester SO22 5DG</p>	<p>Local contact As above</p> <p>Biochemistry</p>	RHCH
<p>Cellular Pathology Department Royal Hampshire County Hospital Romsey Road Winchester SO22 5DG</p>	<p>Local contact Jeff Morrison</p> <p>Diagnostic cytology Routine Histology Immunocytochemistry Frozen sections OSNA</p>	RHCH



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Laboratory locations: Location details		Activity	Location code
BMI Healthcare Basing Road Old Basing Basingstoke RG24 7AL	Local contact As above	Blood Bank No testing occurs on this site, blood storage only	BMIHC
BMI Healthcare Sarum Road Hospital Winchester	Local contact As above	Blood Issue Fridge No testing occurs on this site, blood storage only	BMISRH



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DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location code
HUMAN BODY FLUIDS	<u>General Haematology</u>	Documented in-house procedures with manufacturer's instructions.	
EDTA Whole Blood (unless otherwise stated)	Full blood count: Haemoglobin White blood cell count Platelet count Red blood cell count Haematocrit MCV MCH MCHC RDW Hypochromic RBC % Neutrophil count Lymphocyte count Basophil count Monocyte count Eosinophil count Large unstained cells	LP-HAE-0100 to LP-HAE-0110 using Siemens Advia 2120i analyser: flow cytometry and laser light refraction Beckman Coulter analyser DxH900: Coulter Principle.	BNHH
		LP-HAE-DxH900BODY Body Fluid automated count LP-HAE-DxH900MAIN	RHCH
	Reticulocytes	Siemens Manufacturer's analyser Advia 2120i LP-HAE-0106	BNHH
		Beckman Coulter analyser DxH900: LP-HAE-DxH900MAIN	RHCH



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location code
HUMAN BODY FLUIDS (cont'd)	<u>General Haematology</u> (cont'd)	Documented in-house procedures with manufacturer's instructions.	
EDTA Whole Blood (unless otherwise stated)	Blood film – detecting microscopic cell contents	LP-HAE-0117 using Advia 2120i/Autoslide Siemens Hematek and manual stains (May-Grunwald Giemsa) Examination by light microscopy	BNHH
		LP-HAE-AEROSPRAY using Aerospray Haematology Pro implementation slide stainer and May-Grunwald Giemsa stain	RHCH
		LP-HAE-FLMEXAM Microscopic examination of stained blood films.	
	Erythrocyte sedimentation rate (ESR)	LP-HAE-0141 and LP-HAE-0318 using StaRRsed Autocompact analyser	BNHH
EDTA Plasma or serum	Glandular fever heterophil IgM antibody	LP-HAE-0127 using Biokit latex coated beads	BNHH RHCH
	Sickle cell solubility	LP-HAE-0133 using Microgen solubility test	BNHH RHCH
EDTA Whole Blood	HbA1c	Sebia Capillary's Flex2 Piercing Densitometer LP-HAE-0175 Capillary's HbA1c Analysis	BNHH
EDTA Whole Blood	Haemoglobinopathies	Sebia: Hydrasys 2 Scan Electrophoresis LP-HAE-0178 Capillary's Haemoglobinopathy Analysis	BNHH



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HUMAN BODY FLUIDS (cont'd)	<u>General Haematology</u> (cont'd)	Documented in-house procedures with manufacturer's instructions.	
EDTA Whole Blood (unless otherwise stated)	Lymphocyte subsets T, B, & L including subsets	LP-HAE-0505 using BD Biosciences FACSCanto II flow cytometry	BNHH
EDTA Whole Blood (unless otherwise stated)	HLA-B27	LP-COA-HLAB27 using BD Biosciences FACSCanto II flow cytometry	BNHH
Bone marrow aspirate	Bone Marrow Film – detecting microscopic cell contents and structure	LP-HAE-0134 by Microscopy using manual stains: May-Grunwald; Perls iron	BNHH RHCH
		LP-HAE-AEROSPRAY using Aerospray Haematology Pro implementation slide stainer and May-Grunwald Giemsa stain	RHCH
		LP-HAE-FLMEXAM Microscopic examination of stained blood films.	
EDTA Whole Blood	Malaria pLDH and HRP2 antigens	LP-HAE-0122 rapid test (RDT) using Care Start Rapyd card Test	BNHH RHCH
EDTA Whole Blood	Malaria Blood Film to detect Malaria parasites	LP-HAE-0122, LP-HAE-0117 using Advia 2120i/Autoslide Siemens Hematek and manual stains (May-Grunwald Giemsa) plus Giemsa and rapid fields stain. Examination by light microscopy	BNHH RHCH
EDTA Whole Blood	Malaria Thick Film to detect malaria parasites	LP-HAE-0122 Manual method Fields stain Microscopy	BNHH RHCH



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HUMAN BODY FLUIDS (cont'd)	<u>General Haematology</u> (cont'd)	Documented in-house procedures with manufacturer's instructions.	
Citrated plasma	APTT	LP-HAE-STARRGTLOAD using Stago STA-R-Max2 – Mechanical	BNHH RHCH
Citrated plasma	Fibrinogen	LP-HAE- STARRGTLOAD using Stago STA-R-Max2 – Mechanical	BNHH RHCH
Citrated plasma	Prothrombin time	LP-HAE- STARRGTLOAD using Stago STA-R-Max2 – Mechanical/optical	BNHH RHCH
Citrated plasma	INR	LP-HAE- STARRGTLOAD using Stago STA-R-Max2– Mechanical/optical	BNHH RHCH
	Thrombin time	LP-HAE- STARRGTLOAD using Stago STA-R-Max2 – Mechanical	BNHH RHCH
Citrated plasma	D-Dimer	LP-HAE- Stago STA-R-Max2 immunological	BNHH RHCH
Whole blood (unless otherwise stated)	<u>Special Coagulation</u>	Documented in-house procedures with manufacturer's instructions	
Citrated plasma	VWF multimers	LP-HAE-VWFMULT Electrophoresis Sebia Hydrasys	BNHH
Citrated plasma	Thrombophilia screen: Antithrombin activity Protein C activity Free Protein S antigen APC resistance Plasminogen Alpha-2-antiplasmin	LP-COA-STARTHROM using Stago–R-Max STA-R-Max2- chromogenic/optical,immunological	BNHH



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HUMAN BODY FLUIDS (cont'd)	<u>Special Coagulation</u> (cont'd)	Documented in-house procedures with manufacturer's instructions.	
Citrated plasma	Lupus screen: Dilute APTT for Lupus Anticoagulant Screen and confirm	LP-COA-STARDAPT using Stago STA-R-Max2 clottingl	BNHH
Citrated plasma	FVIII Emicizumab assay	LP-COA-STAF8EMI using Stage STA-R-Max2 clotting	BNHH
Citrated plasma	Von-Willebrands screen: VWF antigen	LP-COA-STARFAC using STA-R-Max2 chromogenic/mechanical	BNHH
Citrated plasma	Factor assays Factor II Factor V Factor VII Factor VIII (chromogenic) Factor VIII (clotting) Factor IX (clotting)	LP-COA-STARFAC using STA-R-Max2 chromogenic/mechanical	BNHH
	Factor IX (chromogenic)	LP-HAE-SCQC Stago STA-R-Max2 chromogenic using Sysmex reagent	BNHH
	Factor X Factor XI Factor XII		
Citrated plasma	Factor IX (Inhibitor)	LP-COA-STARF9INHIB using Stago STA-R-Max2 mechanical	BNHH
Citrated plasma	Factor VIII Inhibitor	LP-COA-STARF8INHIB using Stago STA-R-Max2 mechanical	BNHH
Citrated plasma	Anti Xa	LP-COA-ANTXDOAC using Stago STA-R-Max2Stago-R-Max chromogenic	BNHH



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HUMAN BODY FLUIDS (cont'd)	<u>Special Coagulation</u> (cont'd)	Documented in-house procedures with manufacturer's instructions.	
Citrated plasma	Reptilase	LP-COA-STARREP using Stago STA-R-Max2 mechanical	BNHH
Citrated plasma	Homocysteine	LP- using Stago DT100 chromogenic/optical using IL reagent	BNHH
Citrated plasma	Factor XIII	LP- Stago DT100 chromogenic using Sysmex reagent	BNHH
Citrated plasma	Dabigatran-anti IIa	LP-COA-STARDABIG using Stago STA-R-Max2 chromogenic	BNHH
Citrated plasma	Von Willebrands Ristocetin Co Factor activity	LP-COA-VWFSTARMAX using Stago STA-R-Max2 photometry	BNHH
Citrated plasma	Platelet aggregation	LP-COA-PLTAGGS using Bio Data PAP8 aggregometer – optical	BNHH
Citrated plasma	Anti-cardiolipins	LP-COA-CARDT4- using Triturus T4 ELISA	BNHH
	Anti β 2 GPI	LP-COA-B2GP1T4 using Triturus T4 ELISA	BNHH
	Factor VIII Inhibitory and non inhibitory antibodies (ELISA)	LP-COA-F8INHIBT4 using Triturus T4 ELISA	BNHH
	Heparin Induced Thrombocytopenia	LP-COA-HITST4 using Triturus T4 ELISA	BNHH
	VW collagen binding assay	LP-COA-VWFCB using Triturus T4 ELISA	BNHH
Citrated plasma	VWF Factor VIII binding assay	LP-COA-VWVVIIT4 using Triturus T4 ELISA	BNHH
Whole Blood	PFA	LP-COA-PFA using Sysmex PFA100	BNHH



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HUMAN BODY FLUIDS (cont'd)	<u>Special Coagulation</u> (cont'd)	Documented in-house procedures with manufacturer's instructions.	
Whole Blood	Factor V Leiden	LP-COA-FVLPTMU using Cepheid GeneXpert PCR	BNHH
	Prothrombin gene mutation		
Citrated whole blood	Whole Blood Aggregation	LP-COA-WBA using Chronolog-Whole blood aggregation with luminescence with nucleotide release	BNHH
Citrated plasma	Thrombin generation	LP-COA-TGA Stago CAT analyser-fluorescence	BNHH
Citrated whole blood	Thromboelastography	LP-COA-ROTEM-, Rotem, Thromboelastography	BNHH
Citrated plasma	Fibrinogen antigen	LP-COA-FIBAG using Radial Immuno Diffusion plate	BNHH
Citrated plasma	Antithrombin antigen	(LP-COA-LIAATAG using STA-R-Max 2 immunological assay	BNHH
Citrated plasma	Protein C antigen	LP-COA-PCAG using Radial Immuno Diffusion plate	BNHH
	<u>General Blood Transfusion</u>	Documented in-house procedures with manufacturer's instructions.	
EDTA plasma	Electronic Cross Match	LP-TRA-EISSUE using Immucor Neo/Echo analysers	BNHH RHCH
EDTA plasma	Full Cross Match	In-House method LP-TRA-IATXM using BioRad Gel cards	BNHH RHCH



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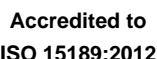
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HUMAN BODY FLUIDS (cont'd)	<u>General Blood Transfusion (cont'd)</u>	Documented in-house procedures with manufacturer's instructions.	
EDTA whole blood	Blood Groups ABO and RhD systems: A Rh D Positive AB Rh D Positive B Rh D Positive O Rh D Positive A Rh Negative AB Rh D Negative B Rh D Negative O Rh D Negative	LP-TRA-ECHOUSE & NEOUSE using Immucor Neo/Echo analysers, tube grouping, BioRad gel card LP-TRA-IH500USE using Bio-Rad IH-500 analyser and immunohematological gel card technologies	BNHH RHCH
EDTA whole blood	Kleihauer	LP-TRA-KL using Guest Medical Kit Kleihauer stain and light microscopy	BNHH RHCH
EDTA plasma	Antibody panels Antigens of the following systems: Rh – C,D,E,c,e, C ^w Kell – K, K, Kpa Duffy –Fy ^a , Fy ^b MNSs M, N, S, s Kidd – JK ^a , Jk ^b Lutheran – Lu ^a Lewis – Le ^a , Le ^b P – P1	LP-TRA-IBGPAN & NHSBT using Immucor Neo/Echo analysers and BioRad Gel cards LP-TRA-IBGPAN & NHSBT using Bio-Rad IH-500 analyser and immunohematological gel card technologies	BNHH RHCH
EDTA whole blood	DCT	LP-TRA-ECHOUSE, NEO-USE & LP-TRA-DCT using Immucor Neo/Echo analysers and BioRad Gel cards LP-TRA-DCT using Bio-Rad IH-500 analyser and immunohematological gel card technologies	BNHH RHCH
EDTA whole blood	Rhesus and K phenotyping Rh – C, D, E, c, e Kell - K	LP-TRA-PHENO using Immucor Neo/Echo analysers and BioRad Gel cards	BNHH RHCH



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HUMAN BODY FLUIDS (cont'd)	<u>Biochemistry examination activities for the purpose of clinical diagnosis</u> (cont'd)	Documented in-house procedures and manufacturer's instructions	
	Quantification of:	Documented in-house procedures and manufacturer's instructions for Roche P module (c702) LP-BIO-ROCHE8000	
Serum, Plasma	Alpha 1 antitrypsin	Immunoturbidimetric assay	BNHH
Serum non-gel, Plasma	Complement C3	Immunoturbidimetric assay	BNHH
Serum non-gel, Plasma	Complement C4	Immunoturbidimetric assay	BNHH
Serum, Plasma	C-Reactive Protein	Particle-enhanced immunoturbidimetric assay	BNHH
Serum, Plasma	IgA	Immunoturbidimetric assay	BNHH
Serum, Plasma	IgG	Immunoturbidimetric assay	BNHH
Serum, Plasma	IgM	Immunoturbidimetric assay	BNHH
Serum, Plasma	RF	Immunoturbidimetric assay	BNHH
Serum, Plasma	Transferrin	Immunoturbidimetric assay	BNHH
Serum, Plasma	Alcohol (ethanol)	Spectrophotometric	BNHH
Serum, Plasma and Urine	Albumin	Immunoturbidimetric assay	BNHH
Serum, Plasma	Alkaline Phosphatase	Spectrophotometric	BNHH
Serum, Plasma	ALT	Spectrophotometric	BNHH
Plasma EDTA	Ammonia	Spectrophotometric	BNHH
Serum, Plasma	Amylase	Spectrophotometric	BNHH
Serum, Plasma	AST	Spectrophotometric	BNHH
Serum, Plasma	Bicarbonate	Spectrophotometric	BNHH
Serum, Plasma	Bile Acids	Spectrophotometric	BNHH
Serum, Plasma	Bilirubin (Total)	Spectrophotometric	BNHH
Serum, Plasma	Bilirubin (Conjugated)	Spectrophotometric	BNHH
Serum, Plasma and Urine	Calcium	Spectrophotometric	BNHH
Serum, Plasma	Cholesterol	Spectrophotometric	BNHH
Serum, Plasma and Urine	Creatinine	Enzymatic	BNHH
Serum, Plasma	Gamma Glutamyl Transferase	Spectrophotometric	BNHH
Fluoride Oxalate Plasma	Glucose	Spectrophotometric	BNHH
Only and Urine			
Serum, Plasma	HDL	Spectrophotometric	BNHH
Serum, Plasma	Iron	Spectrophotometric	BNHH
Fluoride Oxalate Plasma	Lactate	Spectrophotometric	BNHH
Only			
Serum, Plasma	LDH	Spectrophotometric	BNHH
Serum, Plasma	Lithium	Spectrophotometric	BNHH
Serum, Plasma and Urine	Magnesium	Spectrophotometric	BNHH
Serum, Plasma	Paracetamol	Spectrophotometric	BNHH
Serum, Plasma and Urine	Phosphate	Spectrophotometric	BNHH
Serum, Plasma	Salicylate	Spectrophotometric	BNHH
Serum, Plasma and Urine	Total Protein	Spectrophotometric	BNHH



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HUMAN BODY FLUIDS (cont'd)	<u>Biochemistry examination activities for the purpose of clinical diagnosis</u> (cont'd)	Documented in-house procedures and manufacturer's instructions	BNHH
	Quantification of: (cont'd)	Documented in-house procedures and manufacturer's instructions for Roche P module (c702) LP-BIO-ROCHE8000	
Serum, Plasma	Triglyceride	Spectrophotometric	BNHH
Serum, Plasma and Urine	Urea	Spectrophotometric	BNHH
Serum, Plasma and Urine	Uric acid	Spectrophotometric	BNHH
CSF Fluoride Oxalate Only	CSF Glucose	Spectrophotometric	BNHH
CSF	CSF Protein	Spectrophotometric	BNHH
Serum, Plasma	Gentamicin	EMIT	BNHH
Serum, Plasma	Phenobarbitone	EMIT	BNHH
Serum, Plasma	Phenytoin	EMIT	BNHH
Serum, Plasma	Theophylline	EMIT	BNHH
Serum, Plasma	Valproate	EMIT	BNHH
Serum, Plasma	Vancomycin	EMIT	BNHH
Serum, Plasma and Urine	Chloride	Indirect ISE	BNHH
Serum, Plasma and Urine	Potassium	Indirect ISE	BNHH
Serum, Plasma and Urine	Sodium	Indirect ISE	BNHH
Serum, Plasma	B2M	Immunoturbidimetric assay	BNHH
Serum, Plasma	IgG to Aspergillus	Phadia Immucap 250 LP-BIO-1250IMMUNOCAP Elisa method	BNHH
Serum, Plasma	Extractable Antinuclear Antigen Screen	Phadia Immucap 250 LP-BIO-1250IMMUNOCAP Elisa method	BNHH



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HUMAN BODY FLUIDS (cont'd)	<u>Biochemistry examination activities for the purpose of clinical diagnosis</u> (cont'd)	Documented in-house procedures and manufacturer's instructions	
Sweat only	Sweat Tests	Documented in-house procedures and manufacturer's instructions Westcor Iontophoresis and Conductivity LP-BIO-MSSWEAT	BNHH
CSF only	Xanthochromia	Documented in-house procedures and manufacturer's instructions Shimadzu Spectrophotometric LP-BIO-XANTH	BNHH
Serum, Lithium Heparin Plasma	Alkaline Phosphatase isoenzymes	Documented in-house procedures and manufacturer's instructions Sebia Hydrasys Electrophoresis LP-BIO-APIS	BNHH
Serum, Lithium Heparin Plasma	Light Chains	Documented in-house procedures and manufacturer's instructions Binding Site Spa Plus Immunoturbidimetric LP-BIO-SPAPLUS	BNHH



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HUMAN BODY FLUIDS (cont'd)	<u>Biochemistry examination activities for the purpose of clinical diagnosis</u> (cont'd)	Documented in-house procedures and manufacturer's instructions	BNHH
Serum, Lithium Heparin Plasma, Urine	Osmolality	Documented in-house procedures and manufacturer's instructions Advanced Instruments Osmometer LP-BIO-MSOSMO	BNHH
Serum, Lithium Heparin Plasma, Urine	Protein Immunofixation/Immunotyping – quantitation of paraprotein type	Documented in-house procedures and manufacturer's instructions Sebia Capillarys and Sebia Hydrasys Electrophoresis LP-BIO-MINICAP, LP-BIO-MSSEBIA, LP-BIO-IMMUNOTYPE	BNHH
Serum, Lithium Heparin Plasma, Urine	Protein Electrophoresis – detection of normal and abnormal electrophoretic pattern	Documented in-house procedures and manufacturer's instructions Sebia Capillarys Electrophoresis LP-BIO-MINICAP	BNHH
Serum/Plasma unless otherwise stated	Quantification of:	Documented in-house procedures and manufacturer's instructions Werfen Analyser; Bioflash LP-BIO-Bioflash	BNHH
	Coeliac Screen by immunoassay for TTG	LP-BIO-Bioflash Chemiluminescence	BNHH
	Anti-Glomerular Basement Membrane antibodies	LP-BIO-Bioflash Chemiluminescence	BNHH
	Connective tissue Disease antibody screen	LP-BIO-Bioflash Chemiluminescence	BNHH
	Anti-dsDNA antibodies	LP-BIO-Bioflash Chemiluminescence	BNHH
	Anti-myeloperoxidase antibodies	LP-BIO-Bioflash Chemiluminescence	BNHH
	Anti-proteinase 3 antibodies	LP-BIO-Bioflash Chemiluminescence	BNHH
	Anti-ccp	LP-BIO-Bioflash Chemiluminescence	BNHH



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HUMAN BODY FLUIDS (cont'd)	<u>Biochemistry examination activities for the purpose of clinical diagnosis</u> (cont'd)	Documented in-house procedures and manufacturer's instructions	
Serum/Plasma unless otherwise stated	Quantification of:	Documented in-house procedures and manufacturer's instructions Roche P module LP-BIO-ROCHE702	RHCH
Urine and blood	Albumin	Spectrophotometric	RHCH
	Alcohol (Ethanol)	Spectrophotometric	RHCH
	Alkaline phosphatase	Spectrophotometric	RHCH
	ALT	Spectrophotometric	RHCH
	Ammonia	Spectrophotometric	RHCH
Urine and blood	Amylase	Spectrophotometric	RHCH
	AST	Spectrophotometric	RHCH
	Bicarbonate	Spectrophotometric	RHCH
	Bile Acids	Spectrophotometric	RHCH
	Bilirubin (Total)	Spectrophotometric	RHCH
	Calcium	Spectrophotometric	RHCH
	Cholesterol	Spectrophotometric	RHCH
	CK (Creatine Kinase)	Spectrophotometric	RHCH
	Creatinine	Spectrophotometric	RHCH
	Direct Bilirubin	Spectrophotometric	RHCH
	Gamma Glutamyl Transferase	Spectrophotometric	RHCH
	Gentamicin	Spectrophotometric	RHCH
	Glucose	Spectrophotometric	RHCH
	HDL	Spectrophotometric	RHCH



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Serum/Plasma unless otherwise stated (cont'd)	Quantification of: (cont'd)	Documented in-house procedures and manufacturer's instructions Roche P module LP-BIO-ROCHE702	RHCH
	Iron	Spectrophotometric	RHCH
	Lactate	Spectrophotometric	RHCH
	LDH	Spectrophotometric	RHCH
	Lithium	Spectrophotometric	RHCH
Urine and Blood	Magnesium	Spectrophotometric	RHCH
	Paracetamol	Spectrophotometric	RHCH
Urine and Blood	Phosphate	Spectrophotometric	RHCH
Urine and Blood	Teicoplanin	Spectrophotometric	RHCH
	Salicylate	Spectrophotometric	RHCH
Urine and Blood	Total Protein	Spectrophotometric	RHCH
	Triglyceride	Spectrophotometric	RHCH
Urine and Blood	Urea	Spectrophotometric	RHCH
Blood and Urine	Uric Acid	Spectrophotometric	RHCH
CSF	CSF Protein	Spectrophotometric	RHCH
Urine	Albumin	Immunoturbidometric	RHCH
Blood	C-Reactive Protein	Immunoturbidometric	RHCH
Blood	Transferrin	Immunoturbidometric	RHCH
Blood and urine	Chloride	Indirect ISE	RHCH
Blood and urine	Potassium	Indirect ISE	RHCH



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location code
HUMAN BODY FLUIDS (cont'd)	<u>Biochemistry examination activities for the purpose of clinical diagnosis</u> (cont'd)	Documented in-house procedures and manufacturer's instructions	
Serum/Plasma unless otherwise stated (cont'd)	Quantification of: (cont'd)	Documented in-house procedures and manufacturer's instructions Roche P module LP-BIO-ROCHE702	RHCH
Blodd and urine	Sodium	Indirect ISE	RHCH
Urine	Creatinine	Enzymeatic	RHCH
Serum/Plasma unless otherwise stated	Quantification of:	Documented in-house procedures and manufacturer's instructions with specific reference Roche E801 LP-BIO-ROCHEE801	
	HCG (Non-Downs)	Electrochemiluminescence immunoassay	RHCH
	Progesterone	ElectroCChemiluminescence immunoassay	RHCH
	Ferritin	Electrochemiluminescence immunoassay	RHCH
	Troponin T	Electrochemiluminescence immunoassay	RHCH
	Cortisol	Electrochemiluminescence immunoassay	RHCH
	Procalcitonin	Electrochemiluminescence immunoassay	RHCH
	Digoxin	Electrochemiluminescence immunoassay	RHCH
	CA19.9	Electrochemiluminescence immunoassay	RHCH



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HUMAN BODY FLUIDS (cont'd)	<u>Biochemistry examination activities for the purpose of clinical diagnosis (cont'd)</u>	Winchester (RHCH) – satellite site location	RHCH
Serum/Plasma unless otherwise stated	Quantification of:	Documented in-house procedures and manufacturer's instructions with specific reference Siemens Manufacturers Analyser: Centaur XP LP-CHE-CENTOP	
Urine and Blood	Osmolality	VTech Manufacturers Analyser: Osmometer LP-CHE-OSMO	RHCH
Serum	<u>Immunology examination activities for the purpose of clinical diagnosis</u>		
	Quantitative Allergy testing	ImmunoCap using Phadia 250 SOP LP-BIO-I250SIGE	
	Almond	f20	
	Apple	f49	
	Aspergillus	m3	
	Avocado	f96	
	Banana	f92	
	Barley	f6	
	Bee	i1	
	Beef	f27	
	Birch	t3	
	Blue Mussel	f37	
	Brazil nuts	f18	
	Cacao	f93	
	Cagebirds mix	ex72	
	Cashew nuts	f202	
	Cashew Ana o3	f443	
	Cat epithelium	e1	
	Cereal mix	fx20	
	Cheese - Cheddar	f81	
	Cheese - Mould type	f82	
	Cherry	f242	
	Chicken	f83	
	Chick Pea	f309	
	Coconut	f36	
	Codfish	f3	



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HUMAN BODY FLUIDS (cont'd)	<u>Immunology examination activities for the purpose of clinical diagnosis</u> (cont'd)		
Serum (cont'd)	Quantitative Allergy testing (cont'd)	ImmunoCap using Phadia 250 SOP LP-BIO-I250SIGE	
	Crab	f23	
	Dog dander	e5	
	Egg (Whole)	f245	
	Egg white	f1	
	Egg yolk	f75	
	Egg Gal d1	f233	
	Egg Gal d2	f232	
	Fish mix	fx74	
	Food mix	fx5	
	Gluten	f79	
	Grass pollen mix	gx3	
	Grape	f259	
	Guinea Pig	e6	
	Hamster	e84	
	Hazelnut	f17	
	Hazelnut Cor a1	f428	
	Hazelnut Cor a8	f425	
	Hazelnut Cor a9	f440	
	Hazelnut Cor a14	f439	
	Horse dander	e3	
	House Dust Mite	d1	
	Kiwi	f84	
	Latex	k82	
	Maize	f8	
	Milk	f2	
	Milk Bos d4	f76	
	Milk Bos d5	f77	
	Milk Bos d8	f78	
	Mould mix	mx1	
	Mugwort	w6	
	Nuts mix (fx1)	fx1	
	Nuts mix (fx22)	fx22	
	Oat	f7	
	Omega 5 Gliadin	f416	
	Oranges	f33	
	Paprika	f218	
	Pea	f12	
	Peanut	f13	
	Peanut Ara h1	f422	



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HUMAN BODY FLUIDS (cont'd)	<u>Immunology examination activities for the purpose of clinical diagnosis</u> (cont'd)		
Serum (cont'd)	Quantitative Allergy testing (cont'd)	ImmunoCap using Phadia 250 SOP LP-BIO-I250SIGE	
	Peanut Ara h2	f423	
	Peanut Ara h3	f424	
	Peanut Ara h6	f447	
	Peanut Ara h8	f352	
	Peanut Ara h9	f427	
	Pear	f94	
	Pecan nuts	f201	
	Penicillin G	c1	
	Penicillin V	c2	
	Pine Nuts / pignoles	f253	
	Pistachio nuts	f203	
	Plum	f255	
	Pork	f26	
	Potato	f35	
	Prawns (Shrimp)	f24	
	Rabbit	e82	
	Rape	w203	
	Rice	f9	
	Rodents mix	ex70	
	Rye	f5	
	Salmon	f41	
	Seafood mix	fx2	
	Sesame seeds	f10	
	Soya	f14	
	Strawberry	f44	
	Tomatoes	f25	
	Tree pollen mix	tx8	
	Tuna	f40	
	Walnuts	f256	
	Walnut Jug r1	f441	
	Walnut Jug r3	f442	
	Wasp venom	i3	
	Weed pollen mix	wx3	
	Wheat	f4	
	Yeast	f45	



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HUMAN BODY FLUIDS (cont'd)	<u>Immunology examination activities for the purpose of clinical diagnosis</u> (cont'd)		
Serum	Quantitative detection of Intrinsic Factor Antibodies	ELIA on Phadia 250 SOP LP-BIO-IFAB	BNHH
Faeces	Quantitative detection Faecal calprotectin	ELIA on Phadia 250 SOP LP-BIO-CPRO	BNHH
Serum	Total IgE	Fluoroenzymeimmunoassay on Phadia 250 SOP LP-BIO-I250OPERATION	BNHH
Serum	Detection of	Manual Indirect immunofluorescence using Fluorescence microscopy (Nikon Eclipse 50i) LP-BIO-IMMFL	BNHH
	Anti-endomysial antibodies – IgG and IgA		BNHH
	Skin autoantibodies IgG		BNHH
	Anti-nuclear antibodies on Hep2 cell slides		BNHH
	Liver autoantibodies IgG on rodent tissue		BNHH
	ANCA IgG on neutrophil slides		BNHH
	Gastric parietal cell IgG antibody		BNHH



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HUMAN TISSUES AND FLUIDS Fixed and fresh cellular material and body fluid samples, prepared slides, fine needle aspirates and brushings: Unfixed Preparations: Body fluids, urine, CSFs, aspirates, washings, brushings, sputum Wet fixed preparations: brushings, EUSFNA Air Dried Preparations: Body fluids, CSFs FNA Wet Fixed Preparations: Breast, Thyroid, Lymph nodes, brushings, EUSFNA FNA Air Dried Preparations: Breast, Thyroid, Lymph nodes, EUSFNA	<u>Diagnostic Cytopathology</u> Examination of tissues to identify or exclude morphological and cytological abnormalities for the purposes of diagnosis	<u>Diagnostic cytology</u> In-house documented procedures in conjunction with manufacturer's instructions using: Sample preparation (Mistral 3000E Centrifuge & Shandon Cytospin 4) LP-CYT-BCFPREP LP-CYT-URIPREP LP-CYT-CSFPREP LP-CYT-BRUPREP LP-CYT-ASPLAV LP-CYT-FNAPREP LP-CYT-SPUTUM	RHCH
	Visualisation of nuclear detail in cells present	LP-CYT-PAPSTAI Papanicolaou stain LP-CYT-H&ESTAIN H&E Stain LP-CYT-HEMAGUR Hema-Gurr Diff Quick stain LP-CYT-CENTRIF LP-CYT-CYTOCEN LP-CYT-SAFECAB LP-CYT-CVRSLPR LP-HIS-PRISMA	RHCH
	Morphological assessment and interpretation/diagnosis	<u>Microscopy (qualitative analysis)</u> In-house procedures using light microscopy: LP-CYT-SCRNONG	RHCH / BNHH



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location code
<p>HUMAN BODY TISSUE AND FLUIDS (cont'd)</p> <p>Fixed, fresh and frozen tissue samples: excisional and incisional biopsies and surgical resections</p>	<p><u>Histopathological examination of tissues for the purpose of diagnosis</u></p> <p>Examination of tissues in order to identify or exclude morphological and cytological abnormalities for the purpose of clinical diagnoses.</p>	<p>Macroscopic and Microscopic examination using in house procedures in conjunction with manufacturer's instructions for the following methods (where relevant):</p> <p><u>Macroanalysis, Specimen dissection</u> using: LP-HIS-BMSCUTUP LP-HIS-CONCUT</p> <p><u>Decalcification</u> using: LP-HIS-DECALC</p> <p><u>Tissue processing</u> using: LP-HIS-VIP</p> <p><u>Embedding</u> using: Sakura Tissue Embedding Centres LP-HIS-EMBEDHHFT</p> <p><u>Frozen sections</u> using: Cryostat Thermo Shandon Cryostat LP-HIS-FROZENHHFT WI-HIS-FROZEN</p> <p><u>Frozen sections</u> using: Cryostar NX50 (Thermo Fisher) LP-HIS-FROZENHHFT WI-HIS-NX50</p> <p><u>Microtomy and slide production</u> using: Leica rotary microtomes LP-HIS-MICROTOMY WI-HIS-MICROTOMY</p>	<p>RHCH BNHH</p> <p>RHCH BNHH</p> <p>RHCH</p> <p>RHCH</p> <p>RHCH</p> <p>BNHH</p> <p>RHCH</p>
<p>FFPE tissue samples and cell blocks</p>	<p>All tissue components: Nuclei Cytoplasm Muscle fibres Red blood cells Fibrin</p>	<p><u>Automated Routine Haematoxylin & Eosin staining</u> using: Sakura H&E staining machine Sakura Prisma and Coverfilm LP-HIS-PRISMA</p>	<p>RHCH</p>



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HUMAN BODY TISSUE AND FLUIDS (cont'd)	<u>Histopathological examination of tissues for the purpose of diagnosis (cont'd)</u>	Macroscopic and Microscopic examination using in house procedures in conjunction with manufacturer's instructions for the following methods (where relevant):	
FFPE tissue samples and cell blocks and frozen sections	All tissue components: Nuclei Cytoplasm Muscle fibres Red blood cells Fibrin	<u>Manual H&E staining</u> using: LP-HIS-PRISMA	RHCH
Frozen section	All tissue components: Nuclei Cytoplasm Muscle fibres Red blood cells Fibrin	<u>Manual H&E staining</u> using: LP-HIS-FROZ	BNHH
FFPE tissue samples and cell blocks	Special staining for identification of: Acid mucins and neutral mucins	<u>Automated Special staining</u> using: Sakura Prisma AB/PASD PAS/D LP-HIS-PRISMA	RHCH
FFPE tissue samples and cell blocks	Special staining for identification of: Acid mucins Acid mucins and neutral mucins Amyloid Elastin and connective tissue Helicobacter Pylori Differentiate between gram positive and negative bacteria Fungi	<u>Special staining using manual techniques</u> Alcian blue WI-HIS-AB Alcian Blue Periodic Acid Schiff (AB PAS) +/- Diastase WI-HIS-ABPAS Congo Red WI-HIS-ALKCR EVG - Miller's Elastic Van Gieson WI-HIS-EVG Giemsa WI-HIS-GIEMSA Gram WI-HIS-GRAM Grocott's Hexamine Silver WI-HIS-GROCOTT	RHCH



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HUMAN BODY TISSUE AND FLUIDS (cont'd)	<u>Histopathological examination of tissues for the purpose of diagnosis</u> (cont'd)	Macroscopic and Microscopic examination using in house procedures in conjunction with manufacturer's instructions for the following methods (where relevant):	RHCH
FFPE tissue samples and cell blocks (cont'd)	Special staining for identification of: (cont'd)	<u>Special staining using manual techniques</u>	
	Fibrin	Martius Scarlet Blue (MSB) WI-HIS-MSB	
	Connective tissue	Masson Trichrome WI-HIS-MASSTRI	
	Melanin	Masson – Fontana WI-HIS-MFONT	
	Tissue carbohydrates e.g. glycogen, mucins and fungal cell walls.	PAS +/- diastase WI-HIS-PAS	
	Demonstration of iron	Perls WI-HIS-PERLS	
	Reticulin	Reticulin - silver impregnation technique WI-HIS-RETIC	
	Copper associated protein / HepBsAg	Shikata's Orcein WI-HIS-SHITAKA	
	Mast cells	Toluidine Blue WI-HIS-TOLBLUE	
	Differentiation of collagen from other connective tissues	Van Gieson Stain WI-HIS-hvg	



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HUMAN BODY TISSUE AND FLUIDS (cont'd)	<u>Immunohistochemistry (using antibodies) to detect the following for the purposes of clinical diagnosis</u>	<u>Automated</u> Immunohistochemical staining - Documented in house methods	RHCH
FFPE tissue samples and cell blocks	Atypical mycobacteria	Wade Fite WI-HIS-WFITE	
	Acid fast Bacilli	Ziehl Neelsen (ZN) WI-HIS-ZN	
	High Molecular Weight Cytokeratin (Cytokeratins 1,5, 10 and 14	34BE12	
	Tumours of epithelial origin	AE1/AE3	
	Anaplastic lymphoma Kinase	ALK-1	
	B cells in mantle zone and interfollicular T cells.	BCL-2	
	Epithelial marker	BerEP4	
	Epithelioid malignancies of the ovary, cervical papillary serous carcinoma, adenocarcinoma of the endometrium, clear cell bladder adenocarcinoma, epithelioid mesothelioma	CA125	
	Mesothelial cell lining	Calretinin	
	Low molecular weight cytokeratin 7 and 8	CAM5.2	
	T-cells and T-cell neoplasms	CD3	
	B & T-cell malignancies	CD5	
	T-cell lymphomas	CD8	
	Early lymphoid cells and various non-lymphoid cells. Aids identification of Burkitt lymphoma and renal cell carcinomas	CD10	



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HUMAN BODY TISSUE AND FLUIDS (cont'd)	<u>Immunohistochemistry (using antibodies) to detect the following for the purposes of clinical diagnosis (cont'd)</u>	<u>Automated</u> Immunohistochemical staining - Documented in house methods	RHCH
FFPE tissue samples and cell blocks (cont'd)	Reed- Sternberg cells – Hodgkin's lymphoma	CD15	
	B-cells (precursors and mature)	CD20	
	B-cells and monocytes	CD23	
	Reed Sternberg cells, activated B&T-lymphocytes	CD30	
	Endothelial cells	CD31	
	Endothelial cells, vascular and lymphocytic tumours	CD34	
	Leucocytes, lymphoid neoplasms	CD45 (LCA)	
	Lymphomas, small cell lung cancer	CD56	
	Megakaryocytic differentiation	CD61	
	Monocytes, macrophages	CD68	
	B-cell neoplasms	CD79A	
	GISTs, acute myeloid leukemia	CD117	
	Intestinal epithelial cells	CDX2	
	GI tract adenocarcinomas	CEA	
	Cells of neuroendocrine origin	CHROMOGRANIN A	
	Simple and non-keratinizing epithelia, tumours of epithelial origin	CK19	



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HUMAN BODY TISSUE AND FLUIDS (cont'd)	<u>Immunohistochemistry (using antibodies) to detect the following for the purposes of clinical diagnosis (cont'd)</u>	<u>Automated</u> Immunohistochemical staining - Documented in house methods	RHCH
FFPE tissue samples and cell blocks (cont'd)	Normal and neoplastic epithelial cells – adenocarcinomas of colon, stomach, pancreas etc.	CK20	
	Epithelial basal cells, mesothelioma	CK5/6	
	Normal and neoplastic epithelial cells – adenocarcinomas of breast, lung, endometrium, thyroid	CK7	
	Cell cycle regulation. Identification of mantle cell lymphomas	Cyclin D1	
	Smooth and striated muscle cells	Desmin	
	Identification and classification of GIST	DOG-1	
	Epithelial cells. Identification and classification of ductal breast carcinomas	E-CADHERIN	
	Secretory epithelial cells, Hodgkin's lymphoma, anaplastic large cell lymphoma	EMA	
	Von Willebrand Factor – endothelial cells and megakaryocytes	Factor VIII	
	Platelets, Megakaryocytes, histiocytic cells, dermal dendritic cells. Identification dermatofibroma and some vascular neoplasms	Factor XIIIa	



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HUMAN BODY TISSUE AND FLUIDS (cont'd)	<u>Immunohistochemistry (using antibodies) to detect the following for the purposes of clinical diagnosis (cont'd)</u>	<u>Automated</u> Immunohistochemical staining - Documented in house methods	RHCH
FFPE tissue samples and cell blocks (cont'd)	Normal human hepatocytes, hepatocellular carcinomas	Hepatocyte Specific Antigen	
	Assessment of HER2 receptor status in invasive breast carcinomas	Her2 (4B5)	
	Melanosomes. Identification and classification of malignant melanocytic lesions.	HMB45	
	IgG4-positive plasma cells. Diagnosis of IgG4 related sclerosing diseases	IgG4	
	Sex-cord stromal tumours	Inhibin	
	Cells in active phases of the cell cycle. Classification of a variety of tumours	KI-67	
	Melanocytes. Identification and classification of melanomas	MELAN A	
	Epithelial cells – broad reactivity (simple squamous to stratified squamous). Identification of epithelial cell neoplasms	MNF116	
	Normal epithelial cells. Identification and classification of neoplasms. Lung adenocarcinoma vs mesothelioma	MOC-31	
	Cells of neuronal and neuroendocrine origin.	NSE	



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HUMAN BODY TISSUE AND FLUIDS (cont'd)	<u>Immunohistochemistry (using antibodies) to detect the following for the purposes of clinical diagnosis (cont'd)</u>	<u>Automated</u> Immunohistochemical staining - Documented in house methods	RHCH
FFPE tissue samples and cell blocks (cont'd)	Assessment of receptor expression invasive breast carcinomas	Oestrogen Receptor (ER)	
	Diagnosis of high grade cervical intraepithelial neoplasia, oropharyngeal squamous cell carcinomas	P16	
	Epithelial basal cells. Used for investigation of prostate, breast and lung neoplasms	P63	
	Some epithelial cells of kidney, thyroid and Müllerian organs. Identification and classification of ovarian serous carcinoma, clear cell renal carcinoma and papillary thyroid carcinoma	PAX-8	
	Germ cell neoplasms	PLAP	
	Assessment of receptor expression in invasive breast carcinomas	PR	
	Prostate secretory and ductal epithelial cells. Neoplasms of prostatic origin	PSA	
	Classification of tumours in central and peripheral nervous system, malignant melanocytic tumours, malignant melanoma metastasis	S100	
	Glandular epithelium of prostate. Neoplasms of prostatic origin.	PSAP	



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HUMAN BODY TISSUE AND FLUIDS (cont'd)	<u>Immunohistochemistry (using antibodies) to detect the following for the purposes of clinical diagnosis (cont'd)</u>	<u>Automated</u> Immunohistochemical staining - Documented in house methods	RHCH
FFPE tissue samples and cell blocks (cont'd)	Myocardial, skeletal and smooth muscle cells and myoepithelial cells	Smooth Muscle Actin	
	Smooth muscle cells and myoepithelial cells. Classification of breast tumours.	Smooth Muscle Myosin	
	Neuroendocrine cells. Classification of neuroendocrine neoplasm	Synaptophysin	
	Lung and thyroid tissue. Aids in classification of lung and thyroid tumours	TTF-1	
	Thymocytes, resting T-cells, mature activated T-cells. Classification of T-cell neoplasms	UCHL-1 (CD45R0)	
	Cells of mesenchymal origin and tumours of mesenchymal origin	Vimentin	
	Identification of Wilms' tumours, malignant mesothelioma	WT-1	
	Hepatocellular carcinomas, yolk sac tumours, mixed germ cell tumours	Alpha fetoprotein	
	Identification of human DNA mismatch repair proteins MLH-1, MSH-2, MSH-6 and PMS-2. Classification of colorectal tumours..	MLH-1 MSH2 MSH-6 PMS-2	



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HUMAN BODY TISSUE AND FLUIDS (cont'd)	<u>Morphological assessment and interpretation/diagnosis</u>	<u>Microscopy (qualitative analysis) using:</u>	BNHH RHCH
Slides prepared in house from samples listed above		Leica/Nikon microscopes Consultant reporting SOP	
Lymph node tissue	Detect the expression level of Cytokeratin 19 mRNA normally not present in lymph node tissue	Manufacturer's instructions and documented in-house procedures with reference to: Homogeniser, vortex, centrifuge, Sysmex RD210 LP-HIS-OSNA Intraoperative analysis of sentinel lymph nodes using OSNA	BNHH RHCH
END			