Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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



Locations covered by the organisation and their relevant activities

Laboratory locations:

| Location details | | Activity | Location code |
|---|---------------------------------|--|---------------|
| Haematology & Blood Transfusion Basingstoke & North Hampshire Hospital Level B, Aldermaston Road Basingstoke RG24 9NA | Local contact Karen Harrison | Blood Transfusion Blood Transfusion Issue Fridge Coagulation Haematology | BNHH |
| Biochemistry Basingstoke & North Hampshire Hospital Level B, Aldermaston Road Basingstoke RG24 9NA | Local contact Karen Harrison | Biochemistry Immunology | BNHH |
| Cellular Pathology Basingstoke and North Hampshire Hospital Aldermaston Road Basingstoke RG24 9NA | Local contact Jeff Morrison | Diagnostic cytology (receipt and reporting only) Frozen section Histopathology reporting OSNA Pathologist and BMS cut up | BNHH |
| Microbiology Basingstoke & North Hampshire Hospital Level A, Aldermaston Road Basingstoke RG24 9NA | Local contact Helen Denman | Microbiology Molecular Mycology Serology | BNHH |
| Haematology & Blood Transfusion Royal Hampshire County Hospital Romsey Road Winchester SO22 5DG | Local contact Karen Harrison | Blood Transfusion Blood Transfusion Issue Fridge Coagulation Haematology | RHCH |
| Biochemistry Royal Hampshire County Hospital Romsey Road Winchester SO22 5DG | Local contact Karen Harrison | Biochemistry | RHCH |
| Cellular Pathology Royal Hampshire County Hospital Romsey Road Winchester SO22 5DG | Local contact Jeff Morrison | Diagnostic cytology Frozen sections Immunocytochemistry OSNA Routine Histology | RHCH |

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|--|---|---|---------------|
| Testing performed by the Organisation at the locations specified | | | |
| Location details | Activity Location code | | Location code |
| BMI Healthcare Basing Road Old Basing Basingstoke RG24 7AL | Local contact Karen Harrison | Blood Bank No testing occurs on this site, blood storage only | BMIHC |
| BMI Healthcare Sarum Road Hospital Winchester | Local contact Karen Harrison | Blood Issue Fridge No testing occurs on this site, blood storage only | BMISRH |

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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 | Biochemistry examination activities for the purpose of clinical diagnosis | Documented in-house procedures and manufacturer's instructions | |
| 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 |
| 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 Electrophoresis – detection of normal and abnormal electrophoretic pattern | Documented in-house procedures and manufacturer's instructions Sebia Capillarys Electrophoresis LP-BIO-MINICAP | 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 | BNHH |
| 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 |

DETAIL OF ACCREDITATION

| issued by United Kingdom Accreditation Service 2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, U | < |
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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) | Biochemistry examination activities for the purpose of clinical diagnosis (cont'd) | Documented in-house procedures and manufacturer's instructions | |
| | Quantification of: | Documented in-house procedures and manufacturer's instructions for Phadia Immunocap 250 LP-BIO-1250IMMUNOCAP Elisa method | BNHH |
| Serum, Plasma | Extractable Antinuclear Antigen Screen | Phadia Immunocap 250 LP-BIO-1250IMMUNOCAP Elisa method | BNHH |
| Serum, Plasma | IgG to Aspergillus | Phadia Immunocap 250 LP-BIO-1250IMMUNOCAP Elisa method | BNHH |
| | Quantification of: | Documented in-house procedures and manufacturer's instructions for Roche E801 – Electrochemiluminescence Immunoassay LP-BIO-ROCHE8000 | BNHH |
| Serum, Plasma | 25 Hydroxy Vitamin D | | |
| Serum, Plasma | Alpha-fetoprotein | | |
| Serum, Plasma | Anti-CCP | | |
| Serum, Plasma | Anti-thyroid peroxidase antibodies | | |
| Serum, Plasma | B12 | | |
| Serum, Plasma | CA125 | | |
| Serum, Plasma | CA15-3 | | |
| Serum, Plasma | CA 19-9 | | |
| Serum, Plasma | CEA | | |
| Serum, Plasma Serum, Plasma | Cortisol Digoxin | | |
| Serum, Plasma | Ferritin | | |
| Serum, Plasma | Folate | | |
| Serum, Plasma | FSH | | |
| Serum, Plasma | HCG (Non-Downs) | | |
| Serum, Plasma | LH | | |
| Serum, Plasma | Macroprolactin | | |
| Serum, Plasma | Nt Pro BNP | | |
| Serum, Plasma | Oestrodial | | |
| Serum, Plasma | Procalcitonin | | |
| Serum, Plasma | Progesterone | | |

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| HUMAN BODY FLUIDS (cont'd) | Biochemistry examination activities for the purpose of clinical diagnosis (cont'd) | Documented in-house procedures and manufacturer's instructions | |
| Serum, Plasma Serum, Plasma | Quantification of: Prolactin PSA (Total) | Documented in-house procedures and manufacturer's instructions for Roche E801 – Electrochemiluminescence Immunoassay LP-BIO-ROCHE8000 | BNHH |
| | Quantification of: | Documented in-house procedures and manufacturer's instructions for Roche E801 – Electrochemiluminescence Immunoassay LP-BIO-ROCHE8000 | BNHH |
| ETDA Plasma Only Serum, Plasma Serum, Plasma Serum, Plasma Serum, Plasma Serum, Plasma Serum, Plasma | PTH SHBG T3 (Free) T4 (Free) Testosterone Troponin T TSH (Routine) | | |
| Serum/Plasma unless otherwise stated | Quantification of: | Documented in-house procedures and manufacturer's instructions with specific reference Roche E801 LP-BIO-ROCHEE801 Electrochemiluminescence immunoassay | RHCH |
| | CA19.9 Cortisol Digoxin Ferritin HCG (Non-Downs) Procalcitonin Progesterone Troponin T | | |
| Urine and Blood | Osmolality | VTech Manufacturers Analyser: Osmometer LP-CHE-OSMO | 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) | Biochemistry examination activities for the purpose of clinical diagnosis (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 | BNHH |
| Serum, Plasma and Urine Serum, Plasma | Albumin Alcohol (ethanol) | Immunoturbidimetric assay Spectrophotometric | |
| Serum, Plasma | Alkaline Phosphatase | Spectrophotometric | |
| Serum, Plasma | Alpha 1 antitrypsin | Immunoturbidimetric assay | |
| Serum, Plasma | ALT | Spectrophotometric | |
| Plasma EDTA | Ammonia | Spectrophotometric | |
| Serum, Plasma | Amylase | Spectrophotometric | |
| Serum, Plasma | AST | Spectrophotometric | |
| Serum, Plasma | B2M Bisarbanata | Immunoturbidimetric assay | |
| Serum, Plasma Serum, Plasma | Bicarbonate Bile Acids | Spectrophotometric | |
| Serum, Plasma | Bilirubin (Conjugated) | Spectrophotometric Spectrophotometric | |
| Serum, Plasma | Bilirubin (Total) | Spectrophotometric | |
| Serum, Plasma and Urine | Calcium | Spectrophotometric | |
| Serum, Plasma | Cholesterol | Spectrophotometric | |
| Serum, Plasma and Urine | Chloride | Indirect ISE | |
| Serum non-gel, Plasma | Complement C3 | Immunoturbidimetric assay | |
| Serum non-gel, Plasma | Complement C4 | Immunoturbidimetric assay | |
| Serum, Plasma and Urine | Creatinine | Enzymatic | |
| Serum, Plasma | C-Reactive Protein | Particle-enhanced | |
| | | immunoturbidimetric assay | |
| CSF Fluoride Oxalate Only | CSF Glucose | Spectrophotometric | |
| CSF | CSF Protein | Spectrophotometric | |
| Serum, Plasma | Gamma Glutamyl Transferase | Spectrophotometric | |
| Serum, Plasma | Gentamicin | EMIT | |
| Fluoride Oxalate Plasma Only and Urine | Glucose | Spectrophotometric | |
| Serum, Plasma | HDL | Spectrophotometric | |
| Serum, Plasma | IgA | Immunoturbidimetric assay | |
| Serum, Plasma | IgG | Immunoturbidimetric assay | |
| Serum, Plasma | IgM | Immunoturbidimetric assay | |
| Serum, Plasma | Iron | Spectrophotometric | |
| Fluoride Oxalate Plasma Only | Lactate | Spectrophotometric | |
| Serum, Plasma | LDH | Spectrophotometric | |
| Serum, Plasma | Lithium | Spectrophotometric | |
| Serum, Plasma and Urine | Magnesium | Spectrophotometric | |

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| HUMAN BODY FLUIDS (cont'd) | Biochemistry examination activities for the purpose of clinical diagnosis (cont'd) | Documented in-house procedures and manufacturer's instructions | |
| | Quantification of: (cont'd) | Documented in-house procedures and manufacturer's instructions for Roche P module (c702) LP-BIO-ROCHE8000 | BNHH |
| Serum, Plasma Serum, Plasma Serum, Plasma and Urine Serum, Plasma and Urine Serum, Plasma and Urine Serum, Plasma Serum, Plasma and Urine Serum, Plasma Serum, Plasma Serum, Plasma Serum, Plasma and Urine Serum, Plasma Serum, Plasma and Urine Serum, Plasma Serum, Plasma Serum, Plasma | Paracetamol Phenobarbitone Phenytoin Phosphate Potassium RF Salicylate Sodium Total Protein Transferrin Theophylline Triglyceride Urea Uric acid Valproate Vancomycin Quantification of: | Spectrophotometric EMIT EMIT Spectrophotometric Indirect ISE Immunoturbidimetric assay Spectrophotometric Indirect ISE Spectrophotometric Immunoturbidimetric assay EMIT Spectrophotometric Spectrophotometric Spectrophotometric EMIT EMIT Documented in-house procedures and manufacturer's instructions | RHCH |
| Urine Urine and blood Serum/Plasma Serum/Plasma Serum/Plasma Urine and blood Serum/Plasma Serum/Plasma Serum/Plasma Serum/Plasma Serum/Plasma Blood and urine Serum/Plasma | Albumin Alcohol (Ethanol) Alkaline phosphatase ALT Ammonia Amylase AST Bicarbonate Bile Acids Bilirubin (Total) Calcium Cholesterol Chloride CK (Creatine Kinase) | Roche P module LP-BIO- ROCHE702 Immunoturbidometric Spectrophotometric Spectrophotometric Spectrophotometric Spectrophotometric Spectrophotometric Spectrophotometric Spectrophotometric Spectrophotometric Spectrophotometric Spectrophotometric Spectrophotometric Spectrophotometric Spectrophotometric Spectrophotometric Spectrophotometric Spectrophotometric Spectrophotometric Spectrophotometric | |

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| HUMAN BODY FLUIDS (cont'd) | Biochemistry examination activities for the purpose of clinical diagnosis (cont'd) | Documented in-house procedures and manufacturer's instructions | |
| | Quantification of: (cont'd) | Documented in-house procedures and manufacturer's instructions Roche P module LP-BIO- ROCHE702 | RHCH |
| Blood Urine Serum/Plasma CSF Serum/Plasma Serum/Plasma Serum/Plasma Serum/Plasma Serum/Plasma Serum/Plasma Urine and Blood Serum/Plasma Urine and Blood Blood and urine Serum/Plasma Blood and urine Urine and Blood Serum/Plasma Blood Urine and Blood Serum/Plasma Blood Urine and Blood Serum/Plasma Blood Urine and Blood Serum/Plasma Blood Urine and Blood | C-Reactive Protein Creatinine Creatinine CSF Protein Direct Bilirubin Gamma Glutamyl Transferase Gentamicin Glucose HDL Iron Lactate LDH Lithium Magnesium Paracetamol Phosphate Potassium Salicylate Sodium Teicoplanin Total Protein Triglyceride Transferrin Urea Uric Acid | Immunoturbidometric Enzymeatic Spectrophotometric Spectrophotometric Spectrophotometric Spectrophotometric Spectrophotometric Spectrophotometric Spectrophotometric Spectrophotometric Spectrophotometric Spectrophotometric Indirect ISE Spectrophotometric Spectrophotometric Spectrophotometric Spectrophotometric Spectrophotometric Spectrophotometric Spectrophotometric Spectrophotometric Spectrophotometric Spectrophotometric Spectrophotometric Spectrophotometric Spectrophotometric Spectrophotometric Spectrophotometric Spectrophotometric Spectrophotometric Spectrophotometric | |

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| HUMAN BODY FLUIDS (cont'd) | Biochemistry examination activities for the purpose of clinical diagnosis (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 Werfen Analyser; Bioflash Chemiluminescence LP-BIO-Bioflash | BNHH |
| | Anti-ccp Anti-dsDNA antibodies Anti-Glomerular Basement Membrane antibodies Anti-myeloperoxidase antibodies Anti-proteinase 3 antibodies Coeliac Screen by immunoassay for TTG Connective tissue Disease antibody screen | | |
| | General Blood Transfusion | Documented in-house procedures with manufacturer's instructions. | |
| EDTA plasma | Antibody panels Antigens of the following systems: Duffy –Fy ^a , Fy ^b | LP-TRA-IBGPAN & NHSBT using Immucor Neo/Echo analysers and BioRad Gel cards | BNHH |
| | Kell – K, K, Kpa Kidd – JK ^a , Jk ^b Lewis – Le ^a , Le ^b Lutheran – Lu ^a MNSs M, N, S, s P – P1 Rh – C,D,E,c,e, C ^w | LP-TRA-IBGPAN & NHSBT using Bio-Rad IH-500 analyser and immunohematological gel card technologies | RHCH |
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| General Blood Transfusion (cont'd) | Documented in-house procedures with manufacturer's instructions. | |
| Blood Groups ABO and RhD systems: AB Rh D Negative AB Rh D Positive | LP-TRA-ECHOUSE & NEOUSE using Immucor Neo/Echo analysers, tube grouping, BioRad gel card | BNHH |
| A Rh D Positive A Rh Negative B Rh D Positive B RhD Negative O Rh D Negative O Rh D Positive | LP-TRA-IH500USE using Bio-Rad IH-500 analyser and immunohematological gel card technologies | RHCH |
| DCT | LP-TRA-ECHOUSE, NEO-USE & LP-TRA-DCT using Immucor Neo/Echo analysers and BioRad Gel cards | BNHH |
| | LP-TRA-DCT using Bio-Rad IH-500 analyser and immunohematological gel card technologies | RHCH |
| Electronic Cross Match | LP-TRA-EISSUE using Immucor Neo/Echo analysers | BNHH RHCH |
| Full Cross Match | In-House method LP-TRA-IATXM using BioRad Gel cards | BNHH RHCH |
| Kleihauer | LP-TRA-KL using Guest Medical Kit Kleihauer stain and light microscopy | BNHH RHCH |
| Rhesus and K phenotyping Kell - K Rh – C, D, E, c, e | LP-TRA-PHENO using Immucor Neo/Echo analysers and BioRad Gel cards | BNHH RHCH |
| | measured/Range of General Blood Transfusion (cont'd) Blood Groups ABO and RhD systems: AB Rh D Negative AB Rh D Positive A Rh D Positive B Rh D Positive B Rh D Positive O Rh D Positive D Rh D Negative O Rh D Negative O Rh D Positive DCT Electronic Cross Match Full Cross Match Kleihauer Rhesus and K phenotyping Kell - K | measured/Range of measurementEquipment/Techniques usedGeneral Blood Transfusion (cont'd)Documented in-house procedures with manufacturer's instructions.Blood Groups ABO and RhD systems: AB Rh D Negative A Rh D Positive A Rh D Positive B RhD Negative O Rh D Negative O Rh D PositiveLP-TRA-ECHOUSE & NEOUSE using Immucor Neo/Echo analysers, tube grouping, BioRad gel cardDCTLP-TRA-IH500USE using Bio-Rad IH-500 analyser and immunohematological gel card technologiesDCTLP-TRA-ECHOUSE, NEO-USE & LP-TRA-DCT using Immucor Neo/Echo analysers and BioRad Gel cardsElectronic Cross MatchLP-TRA-EISSUE using Immucor Neo/Echo analysersFull Cross MatchLP-TRA-EISSUE using Immucor Neo/Echo analysersFull Cross MatchLP-TRA-LISSUE using Immucor Neo/Echo analysersKleihauerLP-TRA-KL using Guest Medical Kit Kleihauer stain and light microscopyRhesus and K phenotyping Kell - KLP-TRA-PHENO using Immucor Neo/Echo analysers and BioRad |

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|-------------------------------|--|---|------------------|
| HUMAN BODY FLUIDS (cont'd) | General Haematology | Documented in-house procedures with manufacturer's instructions. | |
| Citrated plasma | АРТТ | LP-HAE-STARRGTLOAD using Stago STA-R-Max2 – Mechanical | BNHH RHCH |
| EDTA Whole Blood | 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. | |
| 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. | |
| Citrated plasma | D-Dimer | LP-HAE- Stago STA-R-Max2 immunological | BNHH RHCH |
| EDTA Whole Blood | Erythrocyte sedimentation rate (ESR) | LP-HAE-0141 and LP-HAE-0318 using StaRRsed Autocompact analyser | BNHH |
| Citrated plasma | Fibrinogen | LP-HAE- STARRGTLOAD using Stago STA-R-Max2 – Mechanical | BNHH RHCH |
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| HUMAN BODY FLUIDS (cont'd) | General Haematology (cont'd) | Documented in-house procedures with manufacturer's instructions. | |
| EDTA Whole Blood | Full blood count: Basophil count Eosinophil count Haematocrit Haemoglobin Hypochromic RBC % 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 |
| | Large unstanted cens Lymphocyte count MCH MCHC MCV Monocyte count Neutrophil count Platelet count RDW Red blood cell count White blood cell count | LP-HAE-DxH900BODY Body Fluid automated count LP-HAE-DxH900MAIN | RHCH |
| EDTA Plasma or serum | Glandular fever heterophil IgM antibody | LP-HAE-0127 using Biokit latex coated beads | BNHH RHCH |
| EDTA Whole Blood | Haemoglobinopathies | Sebia: Hydrasys 2 Scan Electrophoresis LP-HAE-0178 Capillarys Haemoglobinopathy Analysis | BNHH |
| EDTA Whole Blood | HBA1c | Sebia Capillary's Flex2 Piercing Densitometer LP-HAE-0175 Capillarys HbA1c Analysis | BNHH |
| EDTA Whole Blood | HLA-B27 | LP-COA-HLAB27 using BD Biosciences FACSCanto II flow cytometry | BNHH |
| Citrated plasma | INR | LP-HAE- STARRGTLOAD using Stago STA-R-Max2– Mechanical/optical | BNHH RHCH |

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|---|--|---|
| <u>General Haematology (</u> cont'd) | Documented in-house procedures with manufacturer's instructions. | |
| Lymphocyte subsets T, B, & L including subsets | LP-HAE-0505 using BD Biosciences FACSCanto II flow cytometry | BNHH |
| Reticulocytes | Siemens Manufacturer's analyser Advia 2120i LP-HAE-0106 | BNHH |
| | Beckman Coulter analyser DxH900 LP-HAE-DxH900MAIN | RHCH |
| 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 |
| Malaria pLDH and HRP2 antigens | LP-HAE-0122 rapid test (RDT) using Care Start Rapyd card Test | BNHH RHCH |
| Malaria Thick Film to detect malaria parasites | LP-HAE-0122 Manual method Fields stain Microscopy | BNHH RHCH |
| Prothrombin time | LP-HAE- STARRGTLOAD using Stago STA-R-Max2 – Mechanical/optical | BNHH RHCH |
| Sickle cell solubility | LP-HAE-0133 using Microgen solubility test | BNHH RHCH |
| Thrombin time | LP-HAE- STARRGTLOAD using Stago STA-R-Max2 – Mechanical | BNHH RHCH |
| | | |
| | | |
| | measured/Range of General Haematology (cont'd) Lymphocyte subsets T, B, & L including subsets Reticulocytes Malaria Blood Film to detect Malaria parasites Malaria pLDH and HRP2 antigens Malaria Thick Film to detect malaria parasites Prothrombin time Sickle cell solubility | measured/Range of measurementEquipment/Techniques usedGeneral Haematology (cont'd)Documented in-house procedures with manufacturer's instructions.Lymphocyte subsets T, B, & L including subsetsLP-HAE-0505 using BD Biosciences FACSCanto II flow cytometryReticulocytesSiemens Manufacturer's analyser Advia 2120i LP-HAE-0106Malaria Blood Film to detect Malaria parasitesLP-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 microscopyMalaria Thick Film to detect malaria parasitesLP-HAE-0122 rapid test (RDT) using Care Start Rapyd card TestMalaria Thick Film to detect malaria parasitesLP-HAE-0122 Manual method Fields stain MicroscopyProthrombin timeLP-HAE-0122 Manual method Fields stain MicroscopySickle cell solubilityLP-HAE-O133 using Microgen solubility testThrombin timeLP-HAE-O133 using Microgen solubility test |

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| HUMAN BODY FLUIDS (cont'd) | Immunology examination activities for the purpose of clinical diagnosis | Documented in-house procedures with manufacturer's instructions. | |
| Serum | Detection of ANCA IgG on neutrophil slides Anti-endomysial antibodies – IgG and IgA Anti-nuclear antibodies on | Manual Indirect immunoflourescence using Flouresence microscopy (Nikon Eclipse 50i) LP-BIO-IMMFL | BNHH |
| | Hep2 cell slides Gastric parietal cell IgG antibody Liver autoantibodies IgG on rodent tissue Skin autoantibodies IgG | | |
| Serum | Quantitative Allergy testing Almond Apple Aspergillus | ImmunoCap using Phadia 250 SOP LP-BIO-I250SIGE f20 f49 m3 f06 | RHCH |
| | Avocado Banana Barley Bee Beef Birch Blue Mussel | f96 f92 f6 i1 f27 t3 f37 | |
| | Brazil nuts Cacao Cagebirds mix Cashew Ana o3 Cashew nuts Cat epithelium | f18 f93 ex72 f443 f202 e1 | |
| | Cereal mix Cheese - Cheddar Cheese - Mould type Cherry Chicken Chickpea | fx20 f81 f82 f242 f83 f309 | |
| | Coconut Codfish | f36 f3 | |

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| HUMAN BODY FLUIDS (cont'd) | Immunology examination activities for the purpose of clinical diagnosis (cont'd) | Documented in-house procedures with manufacturer's instructions. | |
| Serum | Quantitative Allergy testing (cont'd) | ImmunoCap using Phadia 250 SOP LP-BIO-I250SIGE | RHCH |
| | Crab Dog dander Egg Gal d1 Egg Gal d2 Egg white Egg (Whole) Egg yolk Fish mix Food mix Gluten Grape Grass pollen mix Guinea Pig Hamster Hazelnut Hazelnut Cor a1 Hazelnut Cor a3 Hazelnut Cor a8 Hazelnut Cor a9 Hazelnut Cor a14 Horse dander House Dust Mite Kiwi Latex Maize Milk Milk Bos d4 Milk Bos d5 Milk Bos d5 Milk Bos d8 Mould mix Mugwort Nuts mix (fx1) Nuts mix (fx2) Oat Omega 5 Gliadin Oranges Paprika Pea Peanut Peanut Ara h1 | f23 e5 f233 f232 f1 f245 f75 fx74 fx5 f79 f259 gx3 e6 e84 f17 f428 f425 f440 f439 e3 d1 f84 k82 f8 f2 f76 f77 f78 mx1 w6 fx1 fx22 f7 f78 mx1 w6 fx1 fx22 f7 f78 mx1 w6 fx1 fx22 f7 f78 mx1 w6 fx1 fx22 f7 f78 mx1 w6 fx1 fx22 f7 f78 mx1 fx22 f7 f78 fx3 fx3 fx3 fx3 fx3 fx3 fx3 fx3 fx3 fx3 | |

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

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| Materials/Products tested | Type of test/Properties measured/Range of measurement | Standard specifications/ Equipment/Techniques used | Location Code |
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| HUMAN BODY FLUIDS (cont'd) | Immunology examination activities for the purpose of clinical diagnosis (cont'd) | Documented in-house procedures with manufacturer's instructions. | |
| Serum | Quantitative detection of Intrinsic Factor Antibodies | ELIA on Phadia 250 SOP LP-BIO-IFAB | BNHH |
| Serum | Total IgE | Fluoroenzymeimmunoassay on Phadia 250 SOP LP-BIO-I250OPERATION | BNHH |
| | Special Coagulation | Documented in-house procedures with manufacturer's instructions | BNHH |
| Citrated plasma | Anti-cardiolipins | LP-COA-CARDT4- using Triturus T4 ELISA | |
| Citrated plasma | Anti β2 GPI | LP-COA-B2GP1T4 using Triturus T4 ELISA | |
| Citrated plasma | Antithrombin antigen | LP-COA-LIAATAG using STA-R- Max 2 immunological assay | |
| Citrated plasma | Anti Xa | LP-COA-ANTXDOAC using Stago STA-R-Max2Stago-R-Max chromogenic | |
| Citrated plasma | Dabigatran-anti Ila | LP-COA-STARDABIG using Stago STA-R-Max2 chromogenic | |
| Citrated plasma | Factor assays: Factor II Factor V Factor VII Factor VIII (chromogenic) Factor VIII (clotting) | LP-COA-STARFAC using STA-R- Max2 chromogenic/mechanical | |
| Citrated plasma | Factor VIII Inhibitor | LP-COA-STARF8INHIB using Stago STA-R-Max2 mechanical | |
| Whole Blood | Factor VIII Inhibitory and non inhibitory antibodies (ELISA) | LP-COA-F8INHIBT4 using Triturus T4 ELISA | |
| Whole Blood | Factor V Leiden Prothrombin gene mutation | LP-COA-FVLPTMU using Cepheid GeneXpert PCR | |

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| HUMAN BODY FLUIDS (cont'd) | Special Coagulation (cont'd) | Documented in-house procedures with manufacturer's instructions | BNHH |
| Whole Blood | Factor IX (clotting) | LP-COA-STARFAC using STA-R- Max2 chromogenic/mechanical | |
| Whole Blood | Factor IX (chromogenic) | LP-HAE-SCQC Stago STA-R-Max2 chromogenic using Sysmex reagent | |
| Whole Blood | Factor IX (Inhibitor) | LP-COA-STARF9INHIB using Stago STA-R-Max2 mechanical | |
| Whole Blood | Factor X Factor XI Factor XII | LP-HAE-SCQC Stago STA-R-Max2 chromogenic using Sysmex reagent | |
| Whole Blood | Factor XIII | LP- Stago DT100 chromogenic using Sysmex reagent | |
| Citrated plasma | Fibrinogen antigen | LP-COA-FIBAG using Radial Immuno Diffusion plate | |
| Citrated plasma | FVIII Emicizumab assay | LP-COA-STAF8EMI using Stage STA-R-Max2 clotting | |
| Citrated plasma | Homocysteine | LP- using Stago DT100 chromogenic/optical using IL reagent | |
| Citrated plasma | Heparin Induced Thrombocytopenia | LP-COA-HITST4 using Triturus T4 ELISA | |
| Citrated plasma | Lupus screen: Dilute APTT for Lupus AnticoagulantScreen and confirm | LP-COA-STARDAPT using Stago STA-R-Max2 clotting | |
| Whole Blood | PFA | LP-COA-PFA using Sysmex PFA100 | |
| Citrated plasma | Platelet aggregation | LP-COA-PLTAGGS using Bio Data PAP8 aggregometer – optical | |

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| HUMAN BODY FLUIDS (cont'd) | Special Coagulation (cont'd) | Documented in-house procedures with manufacturer's instructions | BNHH |
| Citrated plasma | Protein C antigen | LP-COA-PCAG using Radial Immuno Diffusion plate | |
| Citrated plasma | Reptilase | LP-COA-STARREP using Stago STA-R-Max2 mechanical | |
| Citrated plasma | Thrombin generation | LP-COA-TGA Stago CAT analyser- fluorescence | |
| Citrated whole blood | Thromboelastography | LP-COA-ROTEM-, Rotem, Thromboelastography | |
| Citrated plasma | Thrombophilia screen: Alpha-2-antiplasmin Antithrombin activity APC resistance Free Protein S antigen Plasminogen Protein C activity | LP-COA-STARTHROM using Stago–R-Max STA-R-Max2- chromogenic/optical, immunological | |
| Citrated plasma | Von Willebrand's collagen binding assay | LP-COA-VWFCB using Triturus T4 ELISA | |
| Citrated plasma | Von Willebrand's Factor VIII binding assay | LP-COA-VWFVIIIT4 using Triturus T4 ELISA | |
| Citrated plasma | Von Willebrand's VWF multimers | LP-HAE-VWFMULT Electrophoresis Sebia Hydrasys | |
| Citrated plasma | Von Willebrand's Ristocetin Co Factor activity | LP-COA-VWFSTARMAX using Stago STA-R-Max2 photometry | |
| Citrated plasma | Von-Willebrand's screen: VWF antigen | LP-COA-STARFAC using STA-R- Max2 chromogenic/mechanical | |
| Citrated whole blood | Whole Blood Aggregation | LP-COA-WBA using Chronolog- Whole blood aggregation with luminescence with nucleotide release | |

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| HUMAN TISSUES AND FLUIDS | Diagnostic Cytopathology | | |
| Fixed and fresh cellular material and body fluid samples, prepared slides, fine needle aspirates and brushings: | Examination of tissues to identify or exclude morphological and cytological abnormalities for the purposes of diagnosis | Diagnostic cytology In-house documented procedures in conjunction with manufacturer's instructions using: | |
| Unfixed Preparations: aspirates, body fluids, brushings, CSFs, sputum, urine, washings Wet fixed preparations: brushings, EUSFNA Air Dried Preparations: Body fluids, CSFs FNA Wet Fixed Preparations: Breast, brushings, EUSFNA, lymph nodes, thyroid FNA Air Dried Preparations: Breast, lymph nodes, EUSFNA, thyroid | | Sample preparation (Mistral 3000E Centrifuge & Shandon Cytopsin 4) LP-CYT-BCFPREP LP-CYT-URIPREP LP-CYT-CSFPREP LP-CYT-BRUPREP LP-CYT-BRUPREP LP-CYT-SPLAV LP-CYT-SPUTUM | RHCH |
| Fixed and fresh cellular material and body fluid samples, prepared slides, fine needle aspirates and brushings: | Examination of tissues to identify or exclude morphological and cytological abnormalities for the purposes of diagnosis | Diagnostic cytology In-house documented procedures in conjunction with manufacturer's instructions using: | |
| | Morphological assessment and interpretation/diagnosis | Microscopy (qualitative analysis) 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 |
| HUMAN TISSUES AND FLUIDS (cont'd) | <u>Diagnostic Cytopathology</u> (cont'd) | | |
| Fixed and fresh cellular material and body fluid samples, prepared slides, fine needle aspirates and brushings: | Examination of tissues to identify or exclude morphological and cytological abnormalities for the purposes of diagnosis | Diagnostic cytology In-house documented procedures in conjunction with manufacturer's instructions using: | |
| Unfixed Preparations: aspirates, body fluids, brushings, CSFs, sputum, urine, washings Wet fixed preparations: brushings, EUSFNA Air Dried Preparations: Body fluids, CSFs FNA Wet Fixed Preparations: Breast, brushings, EUSFNA, lymph nodes, thyroid FNA Air Dried Preparations: Breast, lymph nodes, EUSFNA, thyroid | 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-CENTRIF LP-CYT-CYTOCEN LP-CYT-SAFECAB LP-CYT-CVRSLPR LP-HIS-PRISMA | RHCH |
| | Histopathological examination of tissues for the purpose of diagnosis | 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 | All tissue components: Cytoplasm Fibrin Muscle fibres Nuclei Red blood cells | Automated Routine Haematoxylin & Eosin staining using: Sakura H&E staining machine Sakura Prisma and Coverfilm LP-HIS-PRISMA | RHCH |
| Frozen section | All tissue components: Cytoplasm Fibrin Muscle fibres Nuclei Red blood cells | Manual H&E staining using: LP-HIS-FROZ | BNHH |

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| HUMAN TISSUES AND FLUIDS (cont'd) | Histopathological examination of tissues for the purpose of diagnosis (cont'd) | 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: Cytoplasm Fibrin Muscle fibres Nuclei Red blood cells | Manual H&E staining using: LP-HIS-PRISMA | RHCH |
| Fixed, fresh and frozen | Examination of tissues in order | Decalcification using: LP-HIS-DECALC | RHCH BNHH |
| tissue samples: excisional and incisional biopsies and surgical resections | to identify or exclude morphological and cytological abnormalities for the purpose of clinical diagnoses. | EP-HIS-DECALC Embedding using: Sakura Tissue Embedding Centres LP-HIS-EMBEDHHFT | RHCH |
| | | Frozen sections using: Cryostar NX50 (Thermo Fisher) LP-HIS-FROZENHHFT WI-HIS-NX50 | BNHH |
| | | Frozen sections using: Cryostat Thermo Shandon Cryostat LP-HIS-FROZENHHFT WI-HIS-FROZEN | RHCH |
| | | Macroanalysis, Specimen dissection using: LP-HIS-BMSCUTUP LP-HIS-CONCUT | RHCH BNHH |
| Fixed, fresh and frozen tissue samples: excisional and incisional biopsies and surgical resections | Examination of tissues in order to identify or exclude morphological and cytological abnormalities for the purpose of clinical diagnoses. | Microtomy and slide production using: Leica rotary microtomes LP-HIS-MICROTOMY WI-HIS-MICROTOMY | RHCH |
| | | Tissue processing using: LP-HIS-VIP | RHCH |

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| Histopathological examination of tissues for the purpose of diagnosis (cont'd) | Macroscopic and Microscopic examination using in house procedures in conjunction with manufacturer's instructions for the following methods (where relevant): | |
| Special staining for identification of: Acid mucins and neutral mucins | Automated Special staining using: Sakura Prisma AB/PASD PAS/D LP-HIS-PRISMA | RHCH |
| Special staining for identification of: | Special staining using manual techniques | RHCH |
| Acid mucins | Alcian blue WI-HIS-AB | RHCH |
| Acid mucins and neutral mucins | Alcian Blue Periodic Acid Schiff (AB PAS) +/- Diastase WI-HIS-ABPAS | RHCH |
| Amyloid | Congo Red WI-HIS-ALKCR | RHCH |
| Connective tissue | Masson Trichrome WI-HIS- MASSTRI | RHCH |
| Copper associated protein / HepBsAg | Shikata's Orcein WI-HIS-SHITAKA | RHCH |
| Demonstration of iron | Perls WI-HIS-PERLS | RHCH |
| Differentiate between gram positive and negative bacteria | Gram WI-HIS-GRAM | RHCH |
| Differentiation of collagen from other connective tissues | Van Gieson Stain WI-HIS-hvg | RHCH |
| Elastin and connective tissue | EVG - Miller's Elastic Van Gieson WI-HIS-EVG | RHCH |
| Fibrin | Martius Scarlet Blue (MSB) WI- HIS-MSB | RHCH |
| Fungi | Grocott's Hexamine Silver WI-HIS- GROCOTT | RHCH |
| | measured/Range of measurementHistopathological examination of tissues for the purpose of diagnosis (cont'd)Special staining for identification of:Acid mucins and neutral mucinsSpecial staining for identification of:Acid mucins and neutral mucinsAcid mucinsAcid mucins and neutral mucinsAcid mucins and neutral mucinsDemonstration of ironDifferentiate between gram positive and negative bacteriaDifferentiation of collagen from other connective tissuesElastin and connective tissueFibrin | measured/Range of measurementEquipment/Techniques usedHistopathological examination of tissues for the purpose of diagnosis (cont'd)Macroscopic and Microscopic examination using in house procedures in conjunction with manufacturer's instructions for the following methods (where relevant):Special staining for identification of:Automated Special staining using: Sakura Prisma AB/PASD PAS/D LP-HIS-PRISMASpecial staining for identification of:Special staining using manual techniquesAcid mucinsAlcian blue WI-HIS-ABAcid mucinsAlcian blue WI-HIS-ABAcid mucins and neutral mucinsAlcian blue Periodic Acid Schiff (AB PAS) +/- Diastase WI-HIS-ABPASAmyloidCongo Red WI-HIS-ALKCRConnective tissueMasson Trichrome WI-HIS- MASSTRICopper associated protein / HepBsAgShikata's Orcein WI-HIS-SHITAKADifferentiate between gram positive and negative bacteriaGram WI-HIS-GRAMDifferentiation of collagen from other connective tissuesVan Gieson Stain WI-HIS-hvgElastin and connective tissueEVG - Miller's Elastic Van Gieson WI-HIS-EVGFibrinMartius Scarlet Blue (MSB) WI- HIS-MSBFungiGrocott's Hexamine Silver WI-HIS- |

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| HUMAN BODY TISSUE AND FLUIDS (cont'd) | Histopathological examination of tissues for the purpose of diagnosis (cont'd) | Macroscopic and Microscopic examination using in house procedures in conjunction with manufacturer's instructions for the following methods (where relevant): | |
| | Helicobacter Pylori | Giemsa WI-HIS-GIEMSA | RHCH |
| | Mast cells | Toluidine Blue WI-HIS-TOLBLUE | RHCH |
| | Melanin | Masson – Fontana WI-HIS-MFONT | RHCH |
| | Reticulin | Reticulin - silver impregnation technique WI-HIS-RETIC | RHCH |
| | Tissue carbohydrates e.g. glycogen, mucins and fungal cell walls. | PAS +/- diastase WI-HIS-PAS | RHCH |
| EDTA whole blood | Rhesus and K phenotyping Kell - K Rh – C, D, E, c, e | LP-TRA-PHENO using Immucor Neo/Echo analysers and BioRad Gel cards | BNHH RHCH |
| | Immunohistochemistry (using antibodies) to detect the following for the purposes of clinical diagnosis | Automated Immunohistochemical staining - Documented in house methods | RHCH |
| FFPE tissue samples and cell blocks | Acid fast Bacilli | Ziehl Neelsen (ZN) WI-HIS-ZN | |
| | Anaplastic lymphoma Kinase | ALK-1 | |
| | Assessment of HER2 receptor status in invasive breast carcinomas | Her2 (4B5) | |
| | Assessment of receptor expression invasive breast carcinomas | Oestrogen Receptor (ER) PR | |
| | Atypical mycobacteria | Wade Fite WI-HIS-WFITE | |
| | B-cells and monocytes | CD23 | |
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| HUMAN BODY TISSUE AND FLUIDS (cont'd) | Immunohistochemistry (using antibodies) to detect the following for the purposes of clinical diagnosis (cont'd) | Automated Immunohistochemical staining - Documented in house methods | RHCH |
| | B cells in mantle zone and interfollicular T cells | BCL-2 | |
| | B-cell neoplasms | CD79A | |
| | B-cells (precursors and mature) | CD20 | |
| | B & T-cell malignancies | CD5 | |
| | Cell cycle regulation. Identification of mantle cell Iymphomas | Cyclin D1 | |
| | Cells in active phases of the cell cycle. Classification of a variety of tumours | KI-67 | |
| | Cells of mesenchymal origin and tumours of mesenchymal origin | Vimentin | |
| | Cells of neuroendocrine origin | CHROMOGRANIN A | |
| | Cells of neuronal and neuroendocrine origin. | NSE | |
| | Classification of tumours in central and peripheral nervous system, malignant melanocytic tumours, malignant melanoma metastasis | S100 | |
| | Diagnosis of high grade cervical intraepithelial neoplasia, oropharyngeal squamous cell carcinomas | P16 | |
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| HUMAN BODY TISSUE AND FLUIDS (cont'd) | Immunohistochemistry (using antibodies) to detect the following for the purposes of clinical diagnosis (cont'd) | Automated Immunohistochemical staining - Documented in house methods | RHCH |
| | Early lymphoid cells and various non-lymphoid cells. Aids identification of Burkitt lymphoma and renal cell carcinomas | CD10 | |
| | Endothelial cells | CD31 | |
| | Endothelial cells, vascular and lymphocytic tumours | CD34 | |
| | Epithelial basal cells, mesothelioma | CK5/6 | |
| | Epithelial basal cells. Used for investigation of prostate, breast and lung neoplasms | P63 | |
| | Epithelial cells – broad reactivity (simple squamous to stratified squamous). Identification of epithelial cell neoplasms | MNF116 | |
| | Epithelial cells. Identification and classification of ductal breast carcinomas | E-CADHERIN | |
| | Epithelial marker | BerEP4 | |
| | Epithelioid malignancies of the ovary, cervical papillary serous carcinoma, adenocarcinoma of the endometrium, clear cell bladder adenocarcinoma, epithelioid mesothelioma | CA125 | |
| | Germ cell neoplasms | PLAP | |
| | GISTs, acute myeloid leukaemia | CD117 | |

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Standard specifications/

Equipment/Techniques used

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Type of test/Properties

measured/Range of

Identification of Wilms' tumours, malignant mesothelioma

IgG4-positive plasma cells.

Diagnosis of IgG4 related sclerosing diseases

Intestinal epithelial cells

Leucocytes, lymphoid

Low molecular weight

cytokeratin 7 and 8

neoplasms

| | measurement | | ooue |
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| HUMAN BODY TISSUE AND FLUIDS (cont'd) | Immunohistochemistry (using antibodies) to detect the following for the purposes of clinical diagnosis (cont'd) | Automated Immunohistochemical staining - Documented in house methods | RHCH |
| | GI tract adenocarcinomas | CEA | |
| | Glandular epithelium of prostate. Neoplasms of prostatic origin. | PSAP | |
| | Hepatocellular carcinomas, yolk sac tumours, mixed germ cell tumours | Alpha fetoprotein | |
| | High Molecular Weight Cytokeratin (Cytokeratin's 1,5, 10 and 14 | 34BE12 | |
| | Identification and classification of GIST | DOG-1 | |
| | 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 | |

WT-1

lgG4

CDX2

CD45 (LCA)

CAM5.2

Materials/Products tested

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| HUMAN BODY TISSUE AND FLUIDS (cont'd) | Immunohistochemistry (using antibodies) to detect the following for the purposes of clinical diagnosis (cont'd) | Automated Immunohistochemical staining - Documented in house methods | RHCH |
| | Lung and thyroid tissue. Aids in classification of lung and thyroid tumours | TTF-1 | |
| | Lymphomas, small cell lung cancer | CD56 | |
| | Megakaryocytic differentiation | CD61 | |
| | Melanocytes. Identification and classification of melanomas | MELAN A | |
| | Melanosomes. Identification and classification of malignant melanocytic lesions. | HMB45 | |
| | Mesothelial cell lining | Calretinin | |
| | Monocytes, macrophages | CD68 | |
| | Myocardial, skeletal and smooth muscle cells and myoepithelial cells | Smooth Muscle Actin | |
| | Neuroendocrine cells. Classification of neuroendocrine neoplasm | Synaptophysin | |
| | Normal and neoplastic epithelial cells – adenocarcinomas of colon, stomach, pancreas etc. | СК20 | |
| | Normal and neoplastic epithelial cells – adenocarcinomas of breast, lung, endometrium, thyroid | СК7 | |
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| HUMAN BODY TISSUE AND FLUIDS (cont'd) | Immunohistochemistry (using antibodies) to detect the following for the purposes of clinical diagnosis (cont'd) | Automated Immunohistochemical staining - Documented in house methods | RHCH |
| | Normal epithelial cells. Identification and classification of neoplasms. Lung adenocarcinoma vs mesothelioma | MOC-31 | |
| | Normal human hepatocytes, hepatocellular carcinomas | Hepatocyte Specific Antigen | |
| | Platelets, Megakaryocytes, histiocytic cells, dermal dendritic cells. Identification dermatofibroma and some vascular neoplasms | Factor XIIIa | |
| | Prostate secretory and ductal epithelial cells. Neoplasms of prostatic origin | PSA | |
| | Reed Sternberg cells, activated B&T-lymphocytes | CD30 | |
| | Reed- Sternberg cells – Hodgkin's lymphoma | CD15 | |
| | Secretory epithelial cells, Hodgkin's lymphoma, anaplastic large cell lymphoma | ЕМА | |
| | Sex-cord stromal tumours | Inhibin | |
| | Simple and non-keratinizing epithelia, tumours of epithelial origin | СК19 | |
| | Smooth and striated muscle cells | Desmin | |
| | | | |

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| Materials/Products tested | Type of test/Properties measured/Range of measurement | Standard specifications/ Equipment/Techniques used | Location Code |
| HUMAN BODY TISSUE AND FLUIDS (cont'd) | Immunohistochemistry (using antibodies) to detect the following for the purposes of clinical diagnosis (cont'd) | Automated Immunohistochemical staining - Documented in house methods | RHCH |
| | Smooth muscle cells and myoepithelial cells. Classification of breast tumours. | Smooth Muscle Myosin | |
| | 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 | |
| | T-cells and T-cell neoplasms | CD3 | |
| | T-cell lymphomas | CD8 | |
| | Thymocytes, resting T-cells, mature activated T-cells. Classification of T-cell neoplasms | UCHL-1 (CD45R0) | |
| | Tumours of epithelial origin | AE1/AE3 | |
| | Von Willebrand Factor – endothelial cells and megakaryocytes | Factor VIII | |
| Slides prepared in house from samples listed above | Morphological assessment and interpretation/diagnosis | Microscopy (qualitative analysis) using 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 |

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| HUMAN TISSUES and FLUIDS (unless specified) (cont'd) | Microbiological examinations for the purpose of clinical diagnosis | In-house documented procedures and incorporating relevant manufacturers' instructions | BNHH |
| Bacterial cultures isolated in house from blood cultures and urine | Antimicrobial susceptibility testing (AST) | In house documented procedures using EUCAST methodology and E-test LP-MIC-BASSOP-21 | |
| Urine | Detection and Quantification of white and red blood cells, epithelial cells, cast, bacteria, yeast | Manual analysis using microscopy - inverted microscope LP-MIC-UF1000 | |
| Respiratory samples, body fluids | Detection of Acid Fast Bacilli | Manual microscopy using fluorescent technique, auramine or manual light microscopy using modified Ziehl-Neelson LP-MIC-BASSOP-17 LP-MIC-BASSOP-T39 | |
| NPA | Detection of adenovirus | Lateral flow immuno- chromatographic card/strip LP-MIC-ADENONPA | |
| Swabs, urine and isolates Bone Respiratory tract Urine | Detection of Carbapenamase producing organisms | Standard culture techniques onto selected media LP-MIC-CPESCREEN LP-MIC-CARBRESIST LP-MIC-BASSOP-18 LP-MIC-URINECULT LP-MIC-BASSOP-22 | |
| Faeces | Detection of <i>Clostridium</i> <i>difficile toxins</i> A & B | Using r-biopharm® RIDA® QUICK Clostridium difficile Toxin A/B testing kit, an immunochromatographic rapid | |

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| HUMAN TISSUES and FLUIDS (unless specified) (cont'd) | Microbiological examinations for the purpose of clinical diagnosis (cont'd) | In-house documented procedures and incorporating relevant manufacturers' instructions | BNHH |
| Urine | Detection of Pneumococcal antigen | Quidel Sofia FIA immunofluorescence lateral flow test LP-MIC-LEGPAG | |
| Faeces | Detection of presence/ absence of Cryptosporidium | Manual microscopy using light microscope or manual microscopy using fluorescence auramine stain and Ziehl-Neelson LP-MIC-BASSOP-19 LP-MIC-BASSOP-27 LP-MIC-BASSOP-T39 | |
| Faeces | Detection of presence/ absence of faecal parasites Red blood cells White blood cells | Manual microscopy using light microscope and concentration techniques LP-MIC-BASSOP-19 LP-MIC-BASSOP-27 | |
| Faeces | Detection of Rotavirus and Adenovirus | Lateral flow immuno- chromatographic card LP-MIC-BASSOP-19 | |
| NPA | Detection of RSV antigen | BinaxNOW® antigen, lateral flow immuno-chromatographic card LP-MIC-RSVNPA | |
| Joint fluids | Identification of crystals | Using light microscopy LI-MIC-CRYSTALS | |
| Air sampling settle plates | Isolation of micro-organisms of medical importance | Manual inoculation and culture using in-house procedures: LP-MIC-AIRSAMP LP-MIC-MALDI | |
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| HUMAN TISSUES and FLUIDS (unless specified) (cont'd) | <u>Microbiological examinations</u> for the purpose of clinical diagnosis (cont'd) | In-house documented procedures and incorporating relevant manufacturers' instructions | BNHH |
| Fluids Cellular & fluid material contained on swabs & other materials Tissues | Isolation of micro-organisms of clinical significance | Manual inoculation and culture using in-house procedures: LP-MIC-BASSOP-01 (wound swabs) LP-MIC-BASSOP-02 (throat swabs) LP-MIC-BASSOP-03 (ear swabs) LP-MIC-BASSOP-04 (eye swabs) LP-MIC-BASSOP-05 (CSF) LP-MIC-BASSOP-06 (mouth swabs) LP-MIC-BASSOP-07 (nose swabs) LP-MIC-BASSOP-08 (tissues and biopsies) LP-MIC-BASSOP-11 (sterile fluids) LP-MIC-BASSOP-13 (CAPD fluid) LP-MIC-BASSOP-15 (bile) LP-MIC-BASSOP-16 (gastric aspirates) LP-MIC-BASSOP-20 (intraocular fluid and corneal scrapings) LP-MIC-BASSOP-23 (genital specimens) LP-MIC-BASSOP-25 (sinus aspirates) LP-MIC-BASSOP-80 (abscesses and deep wound infections) LP-MIC-BASSOP-83 (intravascular cannulae) LP-MIC-COUGH (cough swabs) LP-MIC-MRSA LP-MIC-MALDI | |
| Pharmacy samples | Isolation of micro-organisms of clinical significance | Manual inoculation and culture using in-house procedures: LP-MIC-PHARM LP-MIC-MALDI | |

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| HUMAN TISSUES and FLUIDS (unless specified) (cont'd) | Microbiological examinations for the purpose of clinical diagnosis (cont'd) | In-house documented procedures and incorporating relevant manufacturers' instructions |
| Whole blood | Isolation of microorganisms of clinical significance | Automated liquid culture using Biomerieux BactAlert 3D using pH change detection and conventional |

| Whole blood | Isolation of microorganisms of clinical significance | Automated liquid culture using Biomerieux BactAlert 3D using pH change detection and conventional culture and microscopy LP-MIC-BASSOP-24 | |
|-----------------------------------|--|--|--|
| Faeces | Isolation of micro-organisms of clinical significance including detection of: <i>Campylobacter spp.</i> E. coli O157 <i>Salmonella spp.</i> <i>Shigella spp.</i> | LP-MIC-BASSOP-19 | |
| Genital tract | Isolation of micro-organisms of clinical significance including detection of: Bacterial vaginosis (BV) <i>Trichomonas vaginalis</i> (TV) Yeasts | Manual inoculation, culture, fluorescent microscopy using in- house procedures: LP-MIC-BASSOP-23 LP-MIC-BASSOP-T39 Manual microscopy using light microscope LI-MIC-HAYS | |
| Urine | Legionella antigen screen | Quidel Sofia FIA immunofluorescence lateral flow test LP-MIC-LEGPAG | |
| Faeces | Microscopic analysis for presence absence of faecal parasites Detection ova, cysts and worms | Manual Microscopy using standard light microscope and concentration techniques as appropriate LP-BASSOP-19 LP-MIC-BASSOP-27 LP-MIC-BASSOP-T43 | |
| Isolates from MRSA culture plates | MRSA sensitivity testing | E test diffusion Disc diffusion LP-MIC-BASSOP-21 LP-MIC-MRSA | |

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| HUMAN TISSUES and FLUIDS (unless specified) (cont'd) | Microbiological examinations for the purpose of clinical diagnosis (cont'd) | In-house documented procedures and incorporating relevant manufacturers' instructions | BNHH |
| CAPD (continuous ambulatory peritoneal dialysis) | Quantification of white and red blood cells | Microscopy and counting chambers LP-MIC-BASSOP-13 | |
| CSF | Quantification of white and red blood cells | Manual analysis using microscopy LP-BASSOP-05 | |
| Urine | Quantification of white and red blood cells, epithelial cells, cast, bacteria, yeast | Urine Automated analysis using Sysmex UF1000 analyser using flow cytometry LP-MIC-UF1000 | |
| Yeast isolates | Sensitivity testing of fungi | E-test diffusion LP-MIC-BASSOP-21 LP-MIC-YEASENS | |
| Bacterial and yeast isolates cultured in-house | Sensitivity testing and organism identification | LP-MIC-BASSOP-21 | |
| | Molecular examinations for the purpose of clinical diagnosis | In-house documented methods following manufacturers' instructions | BNHH |
| Faeces | Detection of medically important organisms including: <i>Campylobacter spp.</i> <i>Clostridium difficile</i> <i>Cryptosporidium parvum</i> <i>Entamoeba histolytica</i> <i>Giardia lamblia</i> <i>Norovirus</i> <i>Salmonella spp.</i> <i>Shigellosis Agent</i> <i>Shiga-toxin</i> | Becton Dickinson BDMax analyser Realtime PCR LP-MIC-BASSOP-19 LP-MIC-BDMAX | |
| Swabs, urines, isolates | Molecular detection of Carbapenamase producing organisms | GeneXpert Realtime PCR LP-MIC-GENEXP | |
| Swabs, urine | Molecular detection of: Chlamydia Gonococci | Roche Cobas 4800 – NAATS PCR LP-MIC-NAATS | |

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| HUMAN TISSUES and FLUIDS (unless specified) (cont'd) | Molecular examinations for the purpose of clinical diagnosis (cont'd) | In-house documented methods following manufacturers' instructions | BNHH |
| Faeces | Molecular detection of Clostridium difficile DNA | GeneXpert Realtime PCR LP-MIC-GENEXP | |
| Plasma EDTA | Quantification of HIV viral load | GeneXpert Realtime PCR LP-MIC-GENEXP | |
| Respiratory samples: Nose viral swabs Throat viral swabs | Molecular detection of Influenza A/B and RSV DNA | GeneXpert Realtime PCR LP-MIC-GENEXP | |
| Swab | Molecular detection of MRSA | GeneXpert Realtime PCR LP-MIC-GENEXP | |
| Faeces | Molecular detection of Norovirus RNA | GeneXpert Realtime PCR LP-MIC-GENEXP | |
| Swab | Presence/absence Panton- Valentine leucocidin (PVL) DNA | Biomolecular Systems MIC Real time PCR LP-MIC-PVLSOP | |
| | Mycology examinations for the purpose of clinical diagnosis | In-house documented methods following manufacturers' instructions | BNHH |
| Hair, skin scrapings and nails | General isolation and characterisation of fungi of clinical significance | Culture and Microscopy, staining using Calcofluor White LP-MIC-BASSOP-39 | |
| Serum | Qualitative detection of: | Manufacturer's instructions for Diasorin Liaison XL immunoassay using chemiluminescence in conjunction within house documented methods: | |
| | Bordetella pertussis IgG antibody CMV IgM Cytomegalovirus (CMV) IgG EBV Capsid IgM EBV nuclear antibody Epstein Barr Virus (EBV) Capsid IgG Hepatitis A IgM antibody | LP-MIC-DIASORINXL | |

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| HUMAN TISSUES and FLUIDS (unless specified) (cont'd) | Mycology examinations for the purpose of clinical diagnosis (cont'd) | In-house documented methods following manufacturers' instructions | BNHH |
| Hair, skin scrapings and nails | General isolation and characterisation of fungi of clinical significance | Culture and Microscopy, staining using Calcofluor White LP-MIC-BASSOP-39 | |
| Serum | Qualitative detection of: | Manufacturer's instructions for Diasorin Liaison XL immunoassay using chemiluminescence in conjunction within house documented methods: LP-MIC-DIASORINXL | |
| | Hepatitis B Core Antibody* Hepatitis B surface antigen Hepatitis C antibody HIV antibody / HIV antigen* Lyme disease IgG antibody Measles IgG antibody | | |
| Serum C | Qualitative detection of: | Manufacturer's instructions for Diasorin Liaison XL immunoassay using chemiluminescence in conjunction with in house | |
| | Parvovirus IgG antibody Parvovirus IgM antibody Rubella IgG Syphilis IgM / IgG antibodies* Toxoplasma Antibody test VZV IgG | documented methods: LP-MIC-DIASORINXL | |
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| HUMAN TISSUES and FLUIDS (cont'd) | Serological examinations for investigation for immunity and markers of infectious disease | Documented in-house methods to meet the requirements of the NHS Infectious Diseases in Pregnancy screening programme as defined in the July 2018 "NHS Infectious Diseases in Pregnancy screening: laboratory QA evidence requirements" | BNHH |
| Urine | Detection of Pneumococcal antigen | BinaxNOW® antigen, lateral flow immuno-chromatographic card LP-MIC-LEGPAG | |
| Serum | Detection of RPR (Rapid Plasma Region)* | Axis Shield RPR Kit – Carbon antigen for the detection of antibodies to VDRL antigen LP-MIC-RPRSER | |
| NPA | Detection of RSV antigen | BinaxNOW® antigen, lateral flow immuno-chromatographic card LP-MIC-RSVNPA | |
| Urine | Legionella antigen screen | BinaxNOW® antigen, lateral flow immuno-chromatographic card LP-MIC-LEGPAG | |
| Serum | Quantitative detection of Anti- Streptolysin 'O' (ASO) | Latex agglutination LP-MIC-ASOSER | |
| Serum (unless otherwise specified) | Qualitative detection of: Hepatitis A Total antibody Hepatitis B core antibody Hepatitis B core IgM antibodies Hepatitis B surface antigen* Hepatitis C Antibody Hepatitis E antibody Hepatitis E antigen HIV Ab/Ag * Mumps IgG antibody Rubella antibody Varicella zoster IgG antibody | Biomerieux Vidas (ELFA) LP-MIC-BASSOP-71 | |

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| HUMAN TISSUES and FLUIDS (cont'd) | Serological examinations for investigation for immunity and markers of infectious disease (cont'd) | Documented in-house methods to meet the requirements of the NHS Infectious Diseases in Pregnancy screening programme as defined in the July 2018 "NHS Infectious Diseases in Pregnancy screening: laboratory QA evidence requirements" | BNHH | |
| | Quantitative detection of: Hepatitis B surface antibody Rubella IgG | Manufacturer's instructions for Diasorin Liaison XL immunoassay using chemiluminescence in conjunction within house documented methods: LP-MIC-DIASORINXL | | |
| | END | | | |