


# Schedule of Accreditation

issued by

## United Kingdom Accreditation Service

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

 <p><b>UKAS</b> MEDICAL 7880</p> <p>Accredited to ISO 15189:2012</p>	<h3>Pathology First LLP</h3> <p>Issue No: 011 Issue date: 23 June 2021</p>	
	<p><b>Pathology Department</b> <b>Pathology First</b> <b>Bentalls</b> <b>Basildon</b> <b>SS14 3BY</b></p>	<p><b>Contact: Kim Aston</b> <b>Tel: +44 (0) 7393232402</b> <b>E-Mail: kim.aston@synlab.co.uk</b></p>

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><b>Address</b> Pathology First Hub Laboratory Bentalls Basildon Essex SS14 3BY</p> <p><b>Local contact</b> Emma Parker (Microbiology) Email: emma.parker@synlab.co.uk Jill Elliott(Blood Sciences) Email: jill.elliott@nhs.net  Tel: 01268 968227</p>	<p>Microbiology Blood Sciences Immunology</p>	HUB
<p>Pathology Department Basildon and Thurrock University Hospital Nethermayne Basildon Essex SS16 5NL</p> <p>Emma Parker(Microbiology) Email: emma.parker@synlab.co.uk  Jill Elliott(Blood Sciences) Email: jill.elliott@nhs.net  Tomos Saunders (Cellular Pathology) E-mail: tomos.saunders@synlab.co.ukTel: 01268 524900 (ext. 5074)</p>	<p>Microbiology (BD BACTEC FX automated primary culture only) Blood Sciences Histopathology Immunocytochemistry Frozen Section for intraoperative diagnosis. Interpretive microscopy</p>	BTUH
<p>Pathology Department Southend Hospital 2nd Floor Prittlewell Wing. Southend University Hospital Prittlewell Chase Westcliff on Sea SS0 0RY</p> <p>Emma Parker(Microbiology) Email: emma.parker@synlab.co.uk  Jill Elliott(Blood Sciences) Email: jill.elliott@nhs.net  Tomos Saunders (Cellular Pathology) E-mail: tomos.saunders@synlab.co.uk Tel: 01702 435555 (ext. 8743)</p>	<p>Microbiology (BD BACTEC FX automated primary culture only) Blood Sciences Immunocytochemistry Diagnostic Cytopathology: Processing of clotted material, Interpretive microscopy Histopathology Frozen Section for intraoperative diagnosis. Interpretive microscopy Andrology</p>	SUH



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**Site activities performed away from the locations listed above:**

Location details		Activity
<b>Address:</b> Cardio Thoracic Centre (CTC) Basildon Hospital (BTUH) Nethermayne Basildon SS16 5NL	<b>Local Contact</b> Teresa Green Tel: +44(0)1268 524900 (ext:5076) Email: Teresa.green@synlab.co.uk	Satellite Blood Issue Fridge for storage of blood and thawed FFP only
Maternity Unit Basildon Hospital Nethermayne Basildon SS16 5NL	Teresa Green Tel: +44(0)1268 524900 (ext:5076) Email: Teresa.green@synlab.co.uk	Satellite Blood Issue Fridge for storage of blood and thawed FFP only
Main Theatres Basildon Hospital Nethermayne Basildon SS16 5NL	Teresa Green Tel: +44(0)1268 524900 (ext:5076) Email: Teresa.green@synlab.co.uk	Satellite Blood Issue Fridge for storage of blood and thawed FFP only
Haematology Day Unit Brentwood Community Hospital Crescent Drive Brentwood CM15 8DP	Teresa Green Tel:+44(0)1268 524900 (ext:5076) Email: Teresa.green@synlab.co.uk	Satellite Blood Issue Fridge for storage of blood and thawed FFP only
Main Theatres Spire Wellesley Southend on Sea Essex	Teresa Green Tel:+44(0)1268 524900 (ext:5076) Email: Teresa.green@synlab.co.uk	Satellite Blood Issue Fridge for storage of blood and thawed FFP only
Basildon Hospital Nethermaine Basildon Essex SS16 5NL	<b>Pathology First Phlebotomy Clinic - Local Contact</b> Nikki Smith Tel: +44 (0) 1268 968235 E-Mail: Nikki.smith@synlab.co.uk	Phlebotomy – venous collection of blood
<b>Address:</b> Southend Hopsital Prittlewell Chase Southend Essex SS0 0RY	<b>Pathology First Phlebotomy Clinic - Local Contact</b> Nikki Smith Tel: +44 (0) 1268 968235 E-Mail: Nikki.smith@synlab.co.uk	Phlebotomy – venous collection of blood



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Location details		Activity
Aveley Medical Centre 22 High Street Aveley RM15 4AD	<b>Pathology First Phlebotomy Clinic - Local Contact</b> Nikki Smith Tel: +44 (0) 1268 968235 E-Mail: Nikki.smith@synlab.co.uk	Phlebotomy – venous collection of blood
Brockfield House Kemble Way Wickford SS11 7FE	<b>Pathology First Phlebotomy Clinic - Local Contact</b> Nikki Smith Tel: +44 (0) 1268 968235 E-Mail: Nikki.smith@synlab.co.uk	Phlebotomy – venous collection of blood
Canvey OPD (Syvervelt) Long Road Canvey Island SS8 0JA	<b>Pathology First Phlebotomy Clinic - Local Contact</b> Nikki Smith Tel: +44 (0) 1268 968235 E-Mail: Nikki.smith@synlab.co.uk	Phlebotomy – venous collection of blood
Canvey PCC (Paddocks) Long Road Canvey Island SS8 0JA	<b>Pathology First Phlebotomy Clinic - Local Contact</b> Nikki Smith Tel: +44 (0) 1268 968235 E-Mail: Nikki.smith@synlab.co.uk	Phlebotomy – venous collection of blood
Clifton Lodge Care Home Balmoral Road Westcliff-on-Sea SS0 7DB	<b>Pathology First Phlebotomy Clinic - Local Contact</b> Nikki Smith Tel: +44 (0) 1268 968235 E-Mail: Nikki.smith@synlab.co.uk	Phlebotomy – venous collection of blood
Darenth Lane / South Ockendon Health Centre Darenth Lane South Okendon RM15 5LP	<b>Pathology First Phlebotomy Clinic - Local Contact</b> Nikki Smith Tel: +44 (0) 1268 968235 E-Mail: Nikki.smith@synlab.co.uk	Phlebotomy – venous collection of blood
East Tilbury (Rigg-Milner Medical Centre) 2 Bata Avenue East Tilbury RM18 8SD	<b>Pathology First Phlebotomy Clinic - Local Contact</b> Nikki Smith Tel: +44 (0) 1268 968235 E-Mail: Nikki.smith@synlab.co.uk	Phlebotomy – venous collection of blood
Eastwood Group Practice (Dr S H H Zaidi & Patner) 335 Eastwood Road North Leith on Sea SS9 4LT	<b>Pathology First Phlebotomy Clinic - Local Contact</b> Nikki Smith Tel: +44 (0) 1268 968235 E-Mail: Nikki.smith@synlab.co.uk	Phlebotomy – venous collection of blood



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Location details		Activity
Hadleigh Clinic 49 London Road Benfleet SS7 2QL	<b>Pathology First Phlebotomy Clinic - Local Contact</b> Nikki Smith Tel: +44 (0) 1268 968235 E-Mail: Nikki.smith@synlab.co.uk	Phlebotomy – venous collection of blood
Hassengate Medical Centre Southend Road Stanford Le Hope SS17 0PH	<b>Pathology First Phlebotomy Clinic - Local Contact</b> Nikki Smith Tel: +44 (0) 1268 968235 E-Mail: Nikki.smith@synlab.co.uk	Phlebotomy – venous collection of blood
Hockley 53 Spa Road Hockley SS5 4AR	<b>Pathology First Phlebotomy Clinic - Local Contact</b> Nikki Smith Tel: +44 (0) 1268 968235 E-Mail: Nikki.smith@synlab.co.uk	Phlebotomy – venous collection of blood
Hullbridge (Riverside) 175 Ferry Road Hullbridge Hockley SS5 6JH	<b>Pathology First Phlebotomy Clinic - Local Contact</b> Nikki Smith Tel: +44 (0) 1268 968235 E-Mail: Nikki.smith@synlab.co.uk	Phlebotomy – venous collection of blood
Kent Elms Clinic 1 Rayleigh Road Leigh on Sea SS9 5UU	<b>Pathology First Phlebotomy Clinic - Local Contact</b> Nikki Smith Tel: +44 (0) 1268 968235 E-Mail: Nikki.smith@synlab.co.uk	Phlebotomy – venous collection of blood
Laindon Health Centre High Road Laindon Ss15 5TR	<b>Pathology First Phlebotomy Clinic - Local Contact</b> Nikki Smith Tel: +44 (0) 1268 968235 E-Mail: Nikki.smith@synlab.co.uk	Phlebotomy – venous collection of blood
Leigh Medical Centre 1446 London Road Southend on Sea SS9 2UT	<b>Pathology First Phlebotomy Clinic - Local Contact</b> Nikki Smith Tel: +44 (0) 1268 968235 E-Mail: Nikki.smith@synlab.co.uk	Phlebotomy – venous collection of blood
Leigh Primary Care Centre (Pall Mall Surgery) 918 London Road Leigh on Sea SS9 3NG	<b>Pathology First Phlebotomy Clinic - Local Contact</b> Nikki Smith Tel: +44 (0) 1268 968235 E-Mail: Nikki.smith@synlab.co.uk	Phlebotomy – venous collection of blood



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Orsett Hospital Rowley Road Orsett Grays RM16 3EU	<b>Pathology First Phlebotomy Clinic - Local Contact</b> Nikki Smith Tel: +44 (0) 1268 968235 E-Mail: Nikki.smith@synlab.co.uk	Phlebotomy – venous collection of blood
Peartree Surgery South Ockendon 4 West Road South Ockendon RM 15 6PR	<b>Pathology First Phlebotomy Clinic - Local Contact</b> Nikki Smith Tel: +44 (0) 1268 968235 E-Mail: Nikki.smith@synlab.co.uk	Phlebotomy – venous collection of blood
Purfleet Care Centre Tank Hill Road Purfleet RM19 1SX	<b>Pathology First Phlebotomy Clinic - Local Contact</b> Nikki Smith Tel: +44 (0) 1268 968235 E-Mail: Nikki.smith@synlab.co.uk	Phlebotomy – venous collection of blood
Rayleigh Clinic Eastwood Road Rayleigh SS6 7JP	<b>Pathology First Phlebotomy Clinic - Local Contact</b> Nikki Smith Tel: +44 (0) 1268 968235 E-Mail: Nikki.smith@synlab.co.uk	Phlebotomy – venous collection of blood
Rawreth Court Rawreth Lane Rayleigh SS6 9RN	<b>Pathology First Phlebotomy Clinic - Local Contact</b> Nikki Smith Tel: +44 (0) 1268 968235 E-Mail: Nikki.smith@synlab.co.uk	Phlebotomy – venous collection of blood
Riverside Medical Centre 175 Ferry Road Hullbridge SS5 6JH	<b>Pathology First Phlebotomy Clinic - Local Contact</b> Nikki Smith Tel: +44 (0) 1268 968235 E-Mail: Nikki.smith@synlab.co.uk	Phlebotomy – venous collection of blood
Rochford Hospital Union Lane Rochford SS4 1RB	<b>Pathology First Phlebotomy Clinic - Local Contact</b> Nikki Smith Tel: +44 (0) 1268 968235 E-Mail: Nikki.smith@synlab.co.uk	Phlebotomy – venous collection of blood
Southend Medical Centre 50 – 52 London Road Southend on Sea SS1 1NX	<b>Pathology First Phlebotomy Clinic - Local Contact</b> Nikki Smith Tel: +44 (0) 1268 968235 E-Mail: Nikki.smith@synlab.co.uk	Phlebotomy – venous collection of blood



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St Andrews Stock Road Billericay CM12 0BH	<b>Pathology First Phlebotomy Clinic - Local Contact</b> Nikki Smith Tel: +44 (0) 1268 968235 E-Mail: Nikki.smith@synlab.co.uk	Phlebotomy – venous collection of blood
St Mary's Church Hall Church End Lane Wickford SS11 7JQ	<b>Pathology First Phlebotomy Clinic - Local Contact</b> Nikki Smith Tel: +44 (0) 1268 968235 E-Mail: Nikki.smith@synlab.co.uk	Phlebotomy – venous collection of blood
Stifford Clays Health Centre Crammavill Street Stifford RM16 2AP	<b>Pathology First Phlebotomy Clinic - Local Contact</b> Nikki Smith Tel: +44 (0) 1268 968235 E-Mail: Nikki.smith@synlab.co.uk	Phlebotomy – venous collection of blood
The Great Wakering Health Centre High Street Great Wakering SS3 0HX	<b>Pathology First Phlebotomy Clinic - Local Contact</b> Nikki Smith Tel: +44 (0) 1268 968235 E-Mail: Nikki.smith@synlab.co.uk	Phlebotomy – venous collection of blood
Thorpedene Surgery Delaware Road Southend on Sea SS3 9NW	<b>Pathology First Phlebotomy Clinic - Local Contact</b> Nikki Smith Tel: +44 (0) 1268 968235 E-Mail: Nikki.smith@synlab.co.uk	Phlebotomy – venous collection of blood
Tilbury Health centre London Road Tilbury RM18 8EB	<b>Pathology First Phlebotomy Clinic - Local Contact</b> Nikki Smith Tel: +44 (0) 1268 968235 E-Mail: Nikki.smith@synlab.co.uk	Phlebotomy – venous collection of blood
Tyrells 39 Seamore Avenue Benfleet SS7 4EX	<b>Pathology First Phlebotomy Clinic - Local Contact</b> Nikki Smith Tel: +44 (0) 1268 968235 E-Mail: Nikki.smith@synlab.co.uk	Phlebotomy – venous collection of blood
Valkyrie PCC 50 Valkyrie Road Westcliffe on Sea SS0 8BU	<b>Pathology First Phlebotomy Clinic - Local Contact</b> Nikki Smith Tel: +44 (0) 1268 968235 E-Mail: Nikki.smith@synlab.co.uk	Phlebotomy – venous collection of blood



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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 AND TISSUES	<u>Microbiology examination activities for the purpose of clinical diagnosis</u>	<u>In house documented methods based on related UK Standards for Microbiology Investigations (SMIs) and incorporating manufacturers' instructions where relevant</u>	
Blood Non-Blood Fluids	Microbial growth	Cultures followed by manual subculture of positive growth, identification and susceptibility testing at the HUB using methods stated in schedule below  PF-MIC-LP-12 Blood cultures using BD BACTEC FX analyser PHE SMI B37 i8.1	FXsited at BTUH SUH Culture, ID & AST at Hub
CSF	Detection/Quantification of cells and differentiation polymorphs and lymphocytes. Isolation and identification of clinically significant micro organisms	PF-MIC-LP-52 CSF processing. Using light microscopy and culture. PHE SMI B27 i6.1	HUB
CAPD	Detection/Quantification of cells and differentiation polymorphs and lymphocytes. Isolation and identification of clinically significant micro organisms	PF-MIC-LP-53 CAPD Using light microscopy and culture PHE SMI B25 i6	HUB
Naso-pharyngeal aspirate	RSV antigen	Binax Now RSV PF-MIC-LP-42	HUB
Faeces, Swabs, Tissues, Urine and other body fluids	Isolation and identification of bacteria of clinical significance	Culture and microscopy with biochemical identification PHE SMI ID 1 i1.6	HUB
Bacterial/yeast in-house isolates	General bacterial identification	Using Bruker MALDI-TOF (Matrix Assisted Laser Desorption Ionisation Time-Of-Flight) PF-MIC-LP-9 PHE SMI: TP40 Issue no: 1 10.10.16	HUB



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HUMAN BODY FLUIDS AND TISSUES (cont'd)	<u>Microbiology examination activities for the purpose of clinical diagnosis (cont'd)</u>	<u>In house documented methods based on related UK Standards for Microbiology Investigations (SMIs) and incorporating manufacturers' instructions where relevant</u>	HUB
Bacterial isolates (in-house)	Antibiotic sensitivity testing	Disc diffusion using EUCAST guidelines PF-MIC-LP-57	HUB
Bacterial isolates (in-house)	Antibiotic sensitivity testing	Semi-automated MIC microdilution technique using BD Phoenix PF-MIC-LP-8	HUB
Urine	Detection and enumeration of WBC, RBC, epithelial cells, yeast cells, bacteria, casts	Automated microscopy flow cytometry using IQ Sprint 200 PF-MIC-LP-17 PHE SMI B41 i8.7	HUB
Blood, Sputum, Pus, Tissue, Urine, Bronchial washings, Swabs	Isolation and presumptive identification of Acid-alcohol fast bacilli (inc. Mycobacterium spp.)	Liquid culture using BD MGIT with microscopical examination of auramine and/or Zn stained smears PF-MIC-LP-1 PF-MIC-LP-5 PHE SMI B40i7.2	HUB
Blood, Sputum, Pus, Tissue, Urine, Bronchial washings	Detection of Acid Fast Bacilli	Microscopy of auramine stained smears PF-MIC-LP-5 PHE SMI B40i7.2	HUB
Urine	<i>Legionella pneumophila</i> serogroup 1 antigen	Using Binax Now kit PF-MIC-LP-80 PHE SMI ID18 i3	HUB
Urine	<i>Streptococcus pneumoniae</i> antigen	Detection of antigen using Binax Now kit PF-MIC-LP-96	HUB





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HUMAN BODY FLUIDS AND TISSUES (cont'd)	<u>Microbiology examination activities for the purpose of clinical diagnosis (cont'd)</u>	<u>In house documented methods based on related UK Standards for Microbiology Investigations (SMIs) and incorporating manufacturers' instructions where relevant</u>	
Urine	<i>Schistosoma haematobium</i> ova	Detection of ova using light microscopy – SOP PF-MIC-LP-104 PHE SMI B31 i5.1	HUB
Faeces	Detection of <i>C.difficile toxin</i> (Combined GDH/toxin A+B)	Using Quikchek Complete card assay – SOP PF-MIC-LP-105 PHE SMI B10 i1.7	HUB
Faeces	Rotavirus and Adenovirus antigens	Antigen detection using Biokit Biorapid Rota-Adeno assay – SOP PF-MIC-LP-108 PHE SMI B30 i8.1	HUB
Faeces	Detection of ova, cysts and parasites	Using Evergreen parasite concentrators and microscopic examination for parasites – SOP PF-MIC-LP-76 PHE SMI B31 i5.1	HUB
Clear Adhesive Tape	Detection of <i>Enterobius vermicularis</i> ova	Detection of ova using light microscopy – SOP PF-MIC-LP-106 PHE SMI B31 i5.1	HUB
Faeces	Detection of <i>Cryptosporidium</i> oocysts	Detection of oocysts using Phenol auramine stain with fluorescent microscopy – SOP PF-MIC-LP-76 PHE SMI B31 i5.1	HUB
Skin, hair, nails, diverse specimens	Isolation of clinically significant fungi and yeasts	Manual inoculation and interpretation PF-MIC-LP-71 PHE SMI B39 i3.1	HUB
HUMAN BODY FLUIDS AND TISSUES (cont'd)	<u>Molecular activities for the purpose of clinical diagnosis</u>	In house documented methods based on manufacturers' instructions where relevant	
Nasopharyngeal, throat, combined nose / throat and mid0turbinate swabs in viral transport media (VTM)	Detection of SARS CoV-2 virus RNA (COVID-19) specific gene sequences; ORF1ab gene	Real time PCR using Hologic Panther Fusion and Aptima assay PF-MIC-LP-19	HUB



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HUMAN BODY FLUIDS AND TISSUES (cont'd)	<u>Molecular activities for the purpose of clinical diagnosis</u>	In house documented methods based on related UK Standards for Microbiology Investigations (SMIs) and incorporating manufacturers' instructions where relevant	HUB
Urine, genital swabs,	Detection of RNA profiles for Chlamydia trachomatis (CT) and or Neisseria gonorrhoea (NG)	Aptima CT/GC using Hologic Panther NAAT (TMA) PF-MIC-LP-19	HUB
Urine	<u>Miscellaneous examination activities for the purpose of clinical diagnosis</u>  Pregnancy testing ( $\beta$ HCG) detection	Documented procedures based on manufactures instructions  Surestep kit PF-MIC-LP-62	HUB
Serum	<u>Serology examination activities for the purpose of clinical diagnosis</u>  Detection of:  Hepatitis C antibody  HIV 1 and 2 antibody/p24 antigen screen  Hepatitis B core Total antibody Cytomegalovirus IgG & IgM antibody  Toxoplasma IgG & IgM antibody	In house documented methods based on related UK Standards for Microbiology Investigations (SMIs) and incorporating manufacturers' instructions where relevant  Documented-in-house methods to meet the requirements of the IDPS screening programme as defined in the July 2018 IDPS screening: laboratory QA evidence requirements  Automated chemi-luminescence using Beckman Coulter DXi PF-BIO-LP-2  PF-MIC-LP-85 (PHE SMI V5 i7)  PF-MIC-LP-89 (PHE SMI V11 i4.1)  PF-MIC-LP-84 (PHE SMI V4 i6) PF-MIC-LP-88 (PHE SMI V28 i4)  PF-MIC-LP-87 (PHE SMI V30 i5)	HUB



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HUMAN BODY FLUIDS AND TISSUES (cont'd)	<u>Serology examination activities for the purpose of clinical diagnosis (cont'd)</u>	In house documented methods based on related UK Standards for Microbiology Investigations (SMIs) and incorporating manufacturers' instructions where relevant	
Serum	Detection of:  Rubella IgM antibody Hepatitis A IgM antibody Hepatitis A Total antibody Hepatitis B surface antigen	Automated chemi-luminescence using Beckman Coulter DXi PF-BIO-LP-2 PF-MIC-LP-83 (PHE SMI V30 i5) PF-MIC-LP-86 (PHE SMI V27 i4) PF-MIC-LP-86 (PHE SMI V27 i4) PF-MIC-LP-84 (PHE SMI V4 i6)	HUB
Serum	Quantification of:  Hepatitis B surface antibody Rubella IgG antibody	Automated chemi-luminescence using Beckman Coulter DXi PF-BIO-LP-2 PF-MIC-LP-84 (PHE SMI V4 i5.3) PF-MIC-LP-83 (PHE SMI V30 i5)	HUB
Serum	Detection of:  Varicella Zoster Virus IgG (VZV) Hepatitis A IgM antibody Hepatitis B surface antigen Hepatitis B core IgM antibody Hepatitis B e-antigen Hepatitis B e-antibody HIV 1 and 2 antibody/p24 antigen screen Mumps IgG antibody <b>Measles IgG antibody</b>	PF-MIC-LP-29 by ELISA-based technique using Biomerieux VIDAS PF-MIC-LP-115 PF-MIC-LP-86(PHE SMI V27 i4) PF-MIC-LP-84(PHE SMI V4 i6) PF-MIC-LP-89 (PHE SMI V11 i4.1)  PF-MIC-LP-126 PF-MIC-LP-127	HUB
Serum	Detection of Streptococcal antibody AntiStreptolysin O (ASO) / anti-DNAse	Using Biokit Rhemajet ASO kit /Biomerieux ASD kit PF-MIC-LP-110 ASD- PF-MIC-LP-111	HUB



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HUMAN BODY FLUIDS AND TISSUES (cont'd)	<u>Serology examination activities for the purpose of clinical diagnosis (cont'd)</u>	In house documented methods based on related UK Standards for Microbiology Investigations (SMIs) and incorporating manufacturers' instructions where relevant	
Serum	Detection of antibodies to <i>Treponema pallidum</i> .	Using Beckman Coulter AU 5800 PF-BIO-LP-3 PF-MIC-LP-90 (PHE SMI V44 i2.1)	HUB
Serum	Mycoplasma pneumoniae IgM	Immunocard Mycoplasma PF-MIC-LP-109	HUB
Faeces	Helicobacter pylori Stool Antigen	Amplified IDEIA Hp StAR PF-MIC-LP-91	HUB
HUMAN BODY FLUIDS	<u>Blood Transfusion examination activities for the purposes of clinical diagnosis</u>	In house documented methods and incorporating manufacturers' instructions where relevant	BTUH
Venous whole blood, EDTA	ABO group (forward and reverse) RhD type	Manual Method, column agglutination, manual tube technique SOP PF-BTR-LP-9	BTUH SUH
Venous whole blood, EDTA	ABO group and RhD type (forward and reverse)	Automated method; Ortho Vision card/column agglutination. (SOP PF-BTR-LP-2)	BTUH SUH
	Red cell antibody screen	Manual Method, column agglutination, SOP PF-BTR-LP-9	BTUH SUH
	Red cell antibody screen	Automated method; Ortho Vision card/column agglutination. (SOP PF-BTR-LP-2)	BTUH SUH



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HUMAN BODY FLUIDS (cont'd)	<u>Blood Transfusion examination activities for the purposes of clinical diagnosis (cont'd)</u>	In house documented methods and incorporating manufacturers' instructions where relevant	
Venous whole blood, EDTA	Direct Antiglobulin Test (DAGT)	Manual Tube Method, SOP PF-BTR-LP-9	SUH
	Direct Antiglobulin Test (DAGT) as below:	Automated method; Ortho Vision card/column agglutination. (SOP PF-BTR-LP-2)	BTUH SUH
	Rhesus blood group antibodies: anti-C, anti-c, anti-D, anti-E, anti-e	Manual Method, column agglutination (SOP PF-BTR-LP-9)	
	Kell system blood group antibodies: anti-K, anti-k, anti-Kpa		
	Kidd blood group antibodies: anti-Jka, anti-Jkb		
	MNS blood group antibodies: anti-M, anti-N, anti-S, anti-s		
	Duffy blood group antibodies: anti-Fya, anti-Fyb		
Venous whole blood, EDTA	Serological cross match - serological compatibility testing between donor red cell antigens and patient plasma antibody.	Manual method; Ortho BioVue card/column agglutination SOP BT-BTR-LP-32	BTUH SUH
Venous whole blood, EDTA	Detection and Estimation of Foetal Maternal Haemorrhage through quantification of foetal Hb in maternal blood	Kleihauer test using acid elution - followed by microscopy ClinTech SOP PF-BTR-LP-10	BTUH SUH



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HUMAN BODY FLUIDS (cont'd)	<u>Haematology examination activities for the purpose of clinical diagnosis</u>	<u>In house documented methods and incorporating manufacturers' instructions where relevant</u>	
Venous whole blood, EDTA	Haemoglobin Red cell count Platelet count Haematocrit White blood cell count (total) Differential white blood cell count (Neutrophil, Lymphocyte, Monocyte, Eosinophil, Basophil)	Beckman Coulter: Unicel DxH800 & DxH900 analysers using AIM technology incorporating : fluorescence flow cytometry, electrical impedance, RBC pulse height detection method, sheath flow direct current (DC) detection method and calculated red cell parameters. (SOP PF-HAE-LP-2)	BTUH SUH HUB
Venous whole blood, EDTA	Reporting of normal and abnormal morphologies	Staining of peripheral blood smear with Romanowsky stains using Aerospray analyser (automated) <sup>1</sup> and manual methods <sup>2</sup> Examination by light microscopy <sup>2</sup> . (SOP PF-HAE-LP-15, PF-HAE-LP-19, PF-HAE-LP-20, PF-HAE-LP-21, PF-HAE-LP-23)	BTUH <sup>1,2</sup> SUH <sup>1,2</sup> HUB <sup>1</sup>
Bone marrow	Reporting of normal and abnormal morphologies	Staining of bone marrow using Romanowsky stain using Aerospray (automated) method (PF-HAE-LP-15, PF-HAE-LP-18)	BTUH SUH
Venous whole blood, EDTA Bone marrow Urine	Detection of iron and ferritin	Perl's Prussian Blue iron stain using a manual technique with examination by light microscopy. (SOP PF-HAE-LP-17)	BTUH SUH
Venous whole blood, EDTA	Erythrocyte sedimentation rate	Sedimentation rate of red cells by automated analyser Alifax Test 1 <sup>1</sup> and Alifax Roller 20 <sup>2</sup> (SOP PF-HAE-LP-11)	BTUH <sup>2</sup> SUH <sup>2</sup> HUB <sup>1</sup>



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HUMAN BODY FLUIDS (cont'd)	<u>Haematology examination activities for the purpose of clinical diagnosis (cont'd)</u>	<u>In house documented methods and incorporating manufacturers' instructions where relevant</u>	
Venous whole blood, EDTA	Detection and speciation of malaria parasites; Plasmodium vivax Plasmodium falciparum Plasmodium ovale Plasmodium malariae Plasmodium knowlesi	Microscopic detection by: Thin Film by Giemsa stain. Thick film by Fields Stain.  All with examination by light microscopy and using SOP (PF-HAE-LP-22)	BTUH SUH HUB
	Histidine Rich protein II Plasmodium Falciparum	Immunodiagnostic testing by CareStart Malaria RAPYDTEST cards (SOP PF-HAE-LP-22)	BTUH SUH HUB
	Non falciparum common antigens: Plasmodium vivax, malaria and ovale		
Venous whole blood, EDTA	Infectious Mononucleosis Screening / Glandular fever – heterophile antibody testing	Infectious mononucleosis screen using the Clearview IM II Kit. (SOP PF-HAE-LP-10)	HUB
Venous whole blood, EDTA	Detection of Haemoglobin S	Manual sickle solubility assay using the Microgen Sickle Test kit. (SOP PF-HAE-LP-6)	BTUH SUH HUB
Venous whole blood, EDTA	G6PD qualitative screen	Fluorescence under UV light using Trinity Biotech screening reagents and manual technique (SOP PF-HAE-LP-3)	HUB
Venous whole blood, EDTA	Determination of Haemoglobin variants.	Documented-in-house methods to meet the requirements of the SCT screening programme as defined in the July 2018 NHS Sickle Cell and Thalassaemia Screening Programme: laboratory quality assurance evidence requirements  Separation of haemoglobin variants by HPLC using Biorad Variant II analyser (SOP PF-HAE-LP-5, PF-HAE-LP-4) Cellulose Acetate electrophoresis (SOP PF-HAE-LP-7).	HUB



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HUMAN BODY FLUIDS (cont'd)	<u>Haematology examination activities for the purpose of clinical diagnosis (cont'd)</u>	<u>In house documented methods and incorporating manufacturers' instructions where relevant</u>	
Venous whole blood, EDTA	Haemoglobin HbA1c	Biorad D-100 analyser using HPLC. (SOP PF-HAE-LP-1)	HUB
Venous whole blood, EDTA	Lymphocyte subset CD3, CD4, CD8, CD19, CD56 and HLA B27):	FACS Canto II Flow cytometer using fluorochrome-labelled antibodies.	HUB
HUMAN BODY FLUIDS	<u>Haematology (Coagulation) examination activities for the purpose of clinical diagnosis</u>	<u>In house documented methods and incorporating manufacturers' instructions where relevant</u>	
Venous whole blood, citrated	Coagulation Clotting Screen, (PT, INR, APTT, APTT-ratio, Derived and Clauss Fibrinogen, D-Dimer, Thrombin Time (TT)	Automated using Werfen ACL TOP 350s by immunoassay and coagulometric assays. (SOP's PF-HAE-LP-8 , PF-HAE-LP-30, PF-HAE-LP-32)	BTUH SUH HUB
Venous whole blood, citrated	Coagulation Factor assays for II, V, VII, VIII, IX, X, Xa, XI and XII	Werfen ACL TOP 750s by coagulometric assays. (SOP's PF-HAE-LP8 + PF-HAE-LP-29)	HUB
Venous whole blood, citrated	Von Willebrands Factor assays for antigen and Ristocetin Cofactor activity	Werfen ACL TOP 750s by immunoassay. (SOP's PF-HAE-LP8 + PF-HAE-LP-33)	HUB
Venous whole blood, citrated	Thrombophilia screen, consisting of: <ul style="list-style-type: none"> <li>• Protein C activity,</li> <li>• Antithrombin activity,</li> <li>Free Protein S assay,</li> </ul> Lupus anticoagulant screen	Werfen ACL TOP 750s by chromogenic, immunoassay and coagulometric assays. (SOP's PF-HAE-LP-8, PF-HAE-LP-28, + PF-HAE-LP-40)	HUB





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<p>HUMAN TISSUES AND FLUIDS</p> <p>Body Fluids: Cerebrospinal Fluid (CSF) Urine (General body fluids including serous fluids and respiratory samples)</p>	<p><u>Diagnostic Cytology examination activities for the purposes of clinical diagnosis</u></p> <p>Preparation and examination of cellular material to identify or exclude morphological &amp; cytological abnormalities</p>	<p>In house documented methods incorporating manufacturers' instructions as required</p> <p>Preparation/centrifugation Documented in house methods in conjunction with manufacturer's instructions for: Hologic T2000 Centra-CL3 centrifuge Shandon Cytospin 4 centrifuge PF-CYT-LP-24 PF-CYT-LP-25 PF-CYT-LP-26 PF-CYT-LP-27 PF-CYT-LP-28 PF-CYT-LP-30 PF-CYT-LP-31 PF-CYT-LP-29 PF-CYT-LP-25 PF-CYT-LP-12 PF-CYT-LP-47 PF-CYT-LP-50 PF-CYT-LP-41 PF-CYT-LP-21 PF-CYT-LP-32</p> <p>PF-HIS-LP-48 PF-HIS-LP-50 &amp; 51 PF-HIS-LP-40 PF-HIS-LP-64 PF-HIS-LP-65 PF-HIS-LP-36</p>	<p>BTUH</p> <p>SUH</p>



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HUMAN TISSUES AND FLUIDS (cont'd)	<u>Diagnostic Cytology examination activities for the purposes of clinical diagnosis (cont'd)</u>	In house documented methods incorporating manufacturers' instructions as required	
Synovial Fluids	Detection and identification of birefringent crystals: Urate and Pyrophosphate crystals	Documented in house methods in conjunction with manufacturer's instructions for the operation of polarising microscope (2 planes) PF-CYT-LP-29	HUB SUH
Slides prepared in-house from sample types specified		Papanicolaou staining Documented in house methods in conjunction with manufacturer's instructions for the operation of Prisma Autostainer and Coverslipper PF-CYT-LP-45	HUB
		May Grunwald Giemsa staining Documented in house manual staining process PF-CYT-LP-54	HUB
	Morphological assessment and interpretation/ diagnosis	Microscopy (qualitative analysis) Documented in house methods – SOP's: PF-CYT-LP-17  Using Microscopes as follows: Olympus BX41 Olympus BX45 Olympus BX50 Nikon Eclipse 50I Nikon Eclipse E400	HUB



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HUMAN TISSUES AND FLUIDS (cont'd)	<u>Histopathology examination activities for the purposes of clinical diagnosis</u>	In house documented methods incorporating manufacturers' instructions as required	
Formalin fixed, fresh and frozen tissue	Preparation and examination to identify or exclude morphological & cytological abnormalities	In House documented methods for specimen dissection (consultant) staining and interpretation supported by SOPs and, where relevant, manufacturer's instructions for cutting up, processing, embedding dehydration, clearing and mounting PF-HIS-LP-50, PF-HIS-LP-40 PF-HIS-LP-64	BTUH SUH
		Using Leica ASP300, ThermoFisher Excelsior and Sakura VIP6 tissue processors; Tek V embedding console and Leica RM2235 microtomes PF-HIS-LP-48 PF-HIS-LP-50 & 53 PF-HIS-LP-40 PF-HIS-LP-60	BTUH
		Using ThermoFisher Excelsior and Shandon Pathcentre tissue processors; Leica EG1150H embedding console; Leica RM2235 and Shandon AS325 microtomes	SUH
Frozen Tissue	Intraoperative examination of tissues in order to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis	PF-HIS-LP-62 in conjunction with manufacturer's instructions for Leica Cryostat CM1900UV	BTUH SUH



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HUMAN TISSUES AND FLUIDS (cont'd)	<u>Histopathology examination activities for the purposes of clinical diagnosis (cont'd)</u>	In house documented methods incorporating manufacturers' instructions as required	
Fixed, fresh and frozen tissue		Routine Haematoxylin & Eosin (H&E) staining and coverslipping PF-HIS-LP-66 in conjunction with manufacturer's instructions for Prisma Autostainer and Coverslipper using Haematoxylin and Eosin stains (H and E)	BTUH
		PH-HIS-LP-66 PF-HIS-LP-67 in conjunction with manufacturer's instructions for Leica Autostainer XL and Tissue Tek Film coverslipper.	SUH
Fixed, fresh and frozen tissue	Detection of the following:	Documented methods (reference in parentheses) using stains as indicated	
	Acid Mucins	Alcian Blue PF-HIS-LP-17	BTUH
	Acid and neutral mucins	ABPAS PF-HIS-LP-90	BTUH
	Amyloid	Congo Red PF-HIS-LP-18	BTUH
	Elastic fibres & connective tissue	EVG PF-HIS-LP-12	BTUH
	Haematopoietic cells	Giemsa PF-HIS-LP-25	BTUH
	Gram positive and negative bacteria	PF-HIS-LP-13	BTUH
	Nuclei and connective tissue	HVG PF-HIS-LP-20	BTUH
	Melanin	Masson Fontana PF-HIS-LP-92	BTUH
	Connective Tissue	Masson Trichrome PF-HIS-LP-92	BTUH
	Removal of melanin pigment	Melanin bleach (CELLP-LP-33)	BTUH



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HUMAN TISSUES AND FLUIDS (cont'd)	<u>Histopathology examination activities for the purpose of clinical diagnosis (cont'd)</u>		
Fixed, fresh and frozen tissue (cont'd)	Detection of the following: (cont'd)	Documented methods (reference in parentheses) using stains as indicated	
	H. pylori	Modified Giemsa PF-HIS-LP-25	BTUH
	Fibrin connective tissue	MSB (CELLP-LP-15)	BTUH
	Polysaccharides including glycogen	PAS (PF-HIS-LP-90)	BTUH
	Hemosiderin	Perls Prussian Blue (PF-HIS-LP-14)	BTUH
	Reticulin fibres	Reticulin (PF-HIS-LP-15)	BTUH
	Hepatitis B surface antigen and copper associated protein	Shikata's Orcein (PF-HIS-LP-23)	BTUH
	Mast Cells	Toluidine Blue (PF-HIS-LP-26)	BTUH
	Calcium slats	Von Kossa (CELLP-LP-16)	BTUH
	Mycobacterium spp including tuberculosis	Ziehl Neelsen (CELLP-LP-14)	BTUH
FFPE tissue	Detection of the following:	Documented in-house methods (PF-HIS-LP-37 & 34) used in accordance with Leica's operating instructions for the use of Bond III & Ventana Ultra automated immunostainers.	
	Foetal Liver Cells	AFP	BTUH SUH
	Histocytes	Alpha-1-antitrypsin	BTUH
	Epithelial Cells	BerEp4	BTUH SUH



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HUMAN TISSUES AND FLUIDS (cont'd)	<u>Histopathology examination activities for the purposes of clinical diagnosis (cont'd)</u>		
FFPE tissue (cont'd)	Detection of the following: (cont'd)	Immunohistochemistry Leica Bond III & Ventana Ultra immunostainers (cont'd)	
	T-cells, B-cells in the mantle zone	Bcl-2 oncoprotein	BTUH SUH
	Follicular centre B-cells	Bcl-6	BTUH SUH
	Luminal cells of the fallopian tube	Ca125	BTUH SUH
	Sialyl Lewis	Ca19.9	BTUH
	Parafollicular (C-Cells)	Calcitonin	BTUH SUH
	Mesothelial cell lining	Calretinin	BTUH SUH
	Low molecular weight marker	Cam 5.2	BTUH SUH
	Dendritic cells and thymocytes	CD1a	BTUH SUH
	T-cell marker	CD3	BTUH SUH
	T-helper cells	CD4	BTUH SUH
	T-cells, B-cells in the mantle zone	CD5 (407)	BTUH SUH
	T-Cell, NK cells	CD7	BTUH
	Cytotoxic T-cells	CD8	BTUH SUH
	Immature B Lymphocytes	CD15	BTUH SUH



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HUMAN TISSUES AND FLUIDS (cont'd)	<u>Histopathology examination activities for the purposes of clinical diagnosis (cont'd)</u>		
FFPE tissue (cont'd)	Detection of the following: (cont'd)	Immunohistochemistry Leica Bond III & Ventana Ultra immunostainers (cont'd)	
	B-cell marker	CD20 (L26)	BTUH SUH
	Mature B-cells and FDC	CD21	BTUH SUH
	FDC and EBV transformed blasts	CD23	BTUH SUH
	RS Cells	CD30 (Ber-H2)	BTUH SUH
	Endothelial	CD31	BTUH SUH
	Endothelial Marker	CD34	BTUH SUH
	Plasma cells and activated T-Cell	CD38	BTUH SUH
	T-cell and myeloid cells	CD43	BTUH SUH
	Leukocyte common antigen	CD45 (LCA)	BTUH SUH
	Neural cell adhesion molecule	CD56	BTUH SUH
	Macrophages	CD68	BTUH SUH
	B-Cell marker	CD79a	BTUH SUH
	Mic2 gene products	CD99 (MIC2)	BTUH SUH



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HUMAN TISSUES AND FLUIDS (cont'd)	<u>Histopathology examination activities for the purposes of clinical diagnosis (cont'd)</u>		
FFPE tissue (cont'd)	Detection of the following: (cont'd)	Immunohistochemistry Leica Bond III & Ventana Ultra immunostainers (cont'd)	
	Mast cells and GIST	CD117 (c-kit)	BTUH SUH
	Plasma cells	CD138	BTUH SUH
	Carcinoembryonic antigen	CEA (Mono)	BTUH SUH
	Carcinoembryonic antigen	CEA (Poly)	BTUH
	Intestinal epithelial	CDX2	BTUH SUH
	Neuroendocrine	ChromograninA	BTUH SUH
	Mantle cell lymphoma	CyclinD1	BTUH SUH
	Squamous and myoepithelial	Cytokeratin 5/6	BTUH SUH
	Glandular, transitional epithelia	Cytokeratin 7	BTUH SUH
	Squamous, basal epithelia	Cytokeratin 14 and 17	BTUH SUH
	Epithelial cells	Cytokeratin 19	BTUH SUH
	Gastrointestinal epithelia	Cytokeratin 20	BTUH SUH
	Broad-range cytokeratin	Cytokeratin AE1/AE3	BTUH SUH





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HUMAN TISSUES AND FLUIDS (cont'd)	<u>Histopathology examination activities for the purposes of clinical diagnosis (cont'd)</u>		
FFPE tissue (cont'd)	Detection of the following: (cont'd)	Immunohistochemistry Leica Bond III & Ventana Ultra immunostainers (cont'd)	
	Lymphatic endothelium	D2-40	BTUH SUH
	Intermediate filament	Desmin	BTUH SUH
	GIST	DOG-1	BTUH SUH
	Cell adhesion molecule	E-Cadherin	BTUH SUH
	Epithelial membrane antigen	EMA	BTUH SUH
	Lymphatic endothelium	Factor 8 (VWF)	BTUH SUH
	Fibrohistocytic Tumour	Factor XIIIa	BTUH SUH
	Gross Cystic Disease Fluid Protein	GCDFP-15	BTUH SUH
	Trophoblasts	HCG	BTUH SUH
	CK's 1,5,10 and 14	High Molecular Weight Cytokeratin 34βE12	BTUH SUH
	Melanosomes	HMB45	BTUH SUH
	Leydig, Steroli cells	Inhibin	BTUH SUH
	Immunoglobulin Kappa light chains	Kappa light chains	BTUH SUH



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HUMAN TISSUES AND FLUIDS (cont'd)	<u>Histopathology examination activities for the purposes of clinical diagnosis (cont'd)</u>		
FFPE tissue (cont'd)	Detection of the following: (cont'd)	Immunohistochemistry Leica Bond III & Ventana Ultra immunostainers (cont'd)	
	Proliferation marker	Ki67	BTUH SUH
	Immunoglobulin Lambda light chains	Lambda light chains	BTUH SUH
	Breast ductal Ca	Mamoglobin	BTUH
	Melanocytes	Melan A	BTUH SUH
	Mesothelial cells/Colorectal	Mesothelin	BTUH
	Broad range cytokeratin	MNF116	BTUH SUH
	B-cells	MUM-1	BTUH SUH
	Mesenchymal marker	Muscle specific actin	BTUH
	Monocytes	Myeloperoxidase	BTUH SUH
	Rhabdomyosarcoma	MyoD1 or Myoglobin	BTUH
	Lung adenocarcinoma	Napsin	BTUH SUH
	Neuroendocrine marker	NSE	BTUH
	Seminoma	Oct 3/4	BTUH SUH
	mRNA/ p16 HPV biomarkers	P16 INK4	BTUH SUH
	Tumour suppressor gene	P53	BTUH SUH



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HUMAN TISSUES AND FLUIDS (cont'd)	<u>Histopathology examination activities for the purposes of clinical diagnosis (cont'd)</u>		
FFPE tissue (cont'd)	Detection of the following: (cont'd)	Immunohistochemistry Leica Bond III & Ventana Ultra immunostainers (cont'd)	
	Basal cell marker	P63	BTUH SUH
	Neuroendocrine marker	PGP9.5	BTUH SUH
	Placental Alkaline Phosphatase	PLAP	BTUH SUH
	Prostate specific antigen	PSA	BTUH SUH
	Prostatic Acid Phosphatase	PAP	BTUH
	Neoplastic prostate glands	Racemase (P504S)	BTUH SUH
	Proximal tubules	RCC	BTUH SUH
	Melanoma, neuroendocrine	S100	BTUH SUH
	Mesenchymal marker	SMA	BTUH SUH
	Neuroendocrine marker	Synaptophysin	BTUH SUH
	Early B-Cell, thymocytes marker	Tdt	BTUH SUH
	Lymphatic endothelial	Thrombomodulin (CD141)	BTUH
	Lumen of thyroid follicles	Thyroglobulin	BTUH SUH
	Thyroid Transcription factor-1	TTF-1	BTUH SUH



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HUMAN TISSUES AND FLUIDS (cont'd)	<u>Histopathology examination activities for the purposes of clinical diagnosis (cont'd)</u>		
FFPE tissue (cont'd)	Detection of the following: (cont'd)	Immunohistochemistry Leica Bond III & Ventana Ultra immunostainers (cont'd)	
	Mesenchymal Marker	Vimentin	BTUH SUH
	Plasma cell marker	VS38c (plasma cell)	BTUH
	Wilms tumour gene product	WT-1	BTUH SUH
	Adenocarcinoma	AUA1	SUH
	B cell marker (found in reactive populations)	BOB-1	SUH
	Tumours with smooth muscle origin (e.g Lyomyosarcoma)	Caldesmon	SUH
	B cell marker (wide variety of normal and neoplastic cells)	CD10	SUH
	Normal T cells and related neoplasms(e.g T lymphoblastic Leukaemia)	CD2	SUH
	Hodgkin Lymphoma and neuroendocrine tumours	CD57	SUH
	Identification of astrocytes and related tumours	GFAP	SUH
	Various carcinomas, including fallopian tube carcinomas	GLUT-1	SUH
	Reacts with cases of Erythroleukemia	Glycophorin	SUH
	For identification of Helicobacter Pylori infection in Gastritis	H.Pylori	SUH



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HUMAN TISSUES AND FLUIDS (cont'd)	<u>Histopathology examination activities for the purposes of clinical diagnosis (cont'd)</u>		
FFPE tissue (cont'd)	Detection of the following: (cont'd)	Immunohistochemistry Leica Bond III & Ventana Ultra immunostainers (cont'd)	
	Mesothelioma	HBME	SUH
	Hepatocellular Carcinoma	Hep Par-1	SUH
	Choriocarcinoma	HPL	SUH
	Hepatocellular carcinoma	HSA	SUH
	Neoplastic cells of neural origin	Neurofilament	SUH
	B cell marker, lymphoblastic leukaemia	Pax5	SUH
	For identification of myoepithelial cells in the breast and for identification of Smooth muscle neoplasm	Smooth Muscle Myosin	SUH
	T Cell neoplasms	UCHL1	SUH
	Morphological assessment and interpretation/diagnosis	Microscopy (qualitative analysis) In-house procedures using light microscopy CELLP-LP-176	BTUH SUH



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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	<u>Andrology examination activities for the purposes of clinical diagnosis</u>	Documented in-house procedures based on WHO Laboratory Manual 5th Edition (2010)	
Ejaculate	Post vasectomy Detection of sperm Sperm concentration	Manual method using documented in-house procedure SOP – Post-vasectomy Semen Analysis by large volume chambers manual microscopy	SUH
Ejaculate	Fertility testing	Manual method using documented in-house procedure Semen Analysis	SUH
	Volume	Volume/weight	SUH
	pH	Colorimetric strips	SUH
	Sperm morphology	Stained slides (Papanicolaou microscopy)	SUH
	Sperm concentration	Microscopy	SUH
	Sperm motility	Microscopy	SUH



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HUMAN BODY FLUIDS (cont'd)	<u>Biochemistry examination activities for the purpose of clinical diagnosis</u>	Documented in-house procedures in conjunction with manufacturer's instructions for analysis using:  Beckman Coulter AU5800 or AU680 analysers with random access colorimetry or turbidimetry technology.  Therapeutic drug monitoring and drugs of abuse screening  PF-BIO-LP-6 PF-BIO-LP-3	
Serum/Plasma	Amikacin		BTUH
	Carbamazepine		BTUH SUH
	Gentamicin		BTUH SUH
	Paracetamol		BTUH SUH
	Salicylate		BTUH SUH
	Theophylline		BTUH SUH
	Vancomycin		BTUH SUH
	Digoxin		BTUH SUH HUB
	Phenytoin		BTUH SUH HUB
	Lithium		BTUH SUH HUB



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HUMAN BODY FLUIDS (cont'd)	<u>Biochemistry examination activities for the purpose of clinical diagnosis (cont'd)</u>	Documented in-house procedures in conjunction with manufacturer's instructions for analysis using:	
Whole blood	Cyclosporin	Beckman Coulter AU5800 analysers with random access colorimetry or turbidimetry technology.  PF-BIO-LP-6 PF-BIO-LP-3	HUB
Serum / Plasma	Alpha 1 Anti-trypsin Haptoglobin Transferrin	Beckman Coulter AU5800 or AU680 analysers with random access colorimetry or turbidimetry technology.  Biochemical marker analysis:  PF-BIO-LP-6	HUB
Serum / Plasma	Bicarbonate Iron	Beckman Coulter AU5800 or AU680 analysers with random access colorimetry or turbidimetry technology.  Biochemical marker analysis:  PF-BIO-LP-3 PF-BIO-LP-6	HUB BTUH SUH





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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 (cont'd)</u>	Documented in-house procedures in conjunction with manufacturer's instructions for analysis using:  Beckman Coulter AU5800 or AU680 analysers with random access colorimetry or turbidimetry technology.  Biochemical marker analysis:  PF-BIO-LP-3	
Serum / Plasma	Conjugated Bilirubin Ammonia Bile Acids Ethanol		BTUH SUH
Serum/Plasma/Urine	Sodium Potassium Chloride	Beckman Coulter AU5800 or AU680 analysers with ion selective electrode technology.  Electrolyte analysis:  PF-BIO-LP-3 PF-BIO-LP-6	HUB BTUH SUH



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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 (cont'd)</u>	Documented in-house procedures in conjunction with manufacturer's instructions for analysis using:  Beckman Coulter AU5800 analysers with random access colorimetry or turbidimetry technology.  Routine biochemistry tests  PF-BIO-LP-3 PF-BIO-LP-6	
Serum/Plasma	Albumin ALP ALT Amylase AST Total Bilirubin Calcium Cholesterol CK Creatinine(Enzymatic) GGT Glucose HDL cholesterol LDH Magnesium Phosphate Total Protein Triglycerides Urate Urea		HUB BTUH SUH
Serum/Plasma	Vitamin D	Beckman Coulter Dxl 800 routine biochemistry testing:  PF-BIO-LP-2	HUB



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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 (cont'd)</u>	Documented in-house procedures in conjunction with manufacturer's instructions for analysis using:  Beckman AU5800 or AU680 analysers with random access colorimetry, turbidimetry technology.  Routine Biochemistry Testing:  PF-BIO-LP-3 PF-BIO-LP-6	HUB BTUH SUH
Urine	Creatinine Potassium Total protein Sodium Urate Urea  Phosphate Albumin Calcium Chloride	Beckman AU5800 or AU680 analysers with random access colorimetry, turbidimetry technology.  Routine Biochemistry Testing:  PF-BIO-LP-3 PF-BIO-LP-6	HUB



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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 (cont'd)</u>	Documented in-house procedures in conjunction with manufacturer's instructions for analysis using:  Beckman AU5800 or AU680 analysers with random access colorimetry, turbidimetry technology. Routine Biochemistry Testing:  PF-BIO-LP-3	
Cerebral Spinal Fluid	Glucose Total Protein Lactate	Beckman AU5800 or AU680 analysers with random access colorimetry, turbidimetry technology.  Biochemistry Immunological testing:  PF-BIO-LP-3 PF-BIO-LP-6	BTUH SUH
Serum / Plasma	CRP	Beckman AU5800 or AU680 analysers with random access colorimetry, turbidimetry technology.  Biochemistry Immunological testing:	HUB BTUH SUH
Serum / Plasma	C3 C4 IgA IgG IgM Rheumatoid factor II Immunoglobulin E	Beckman AU5800 or AU680 analysers with random access colorimetry, turbidimetry technology.  Biochemistry Immunological testing:  PF-BIO-LP-6	HUB



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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 (cont'd)</u>	Documented in-house procedures in conjunction with manufacturer's instructions for analysis using:	
Serum / Plasma	B12 Cortisol Ferritin Folate FSH FT3 LH Oestradiol Prolactin Macroprolactin PSA PTH SHGB Testosterone Thyroid peroxidase antibodies (TPO)	Beckman Coulter Dxl 800/Access 2 for Electrochemiluminescence immunoassay:  PF-BIO-LP-2	HUB
Serum / Plasma	Cortisol FT4 bHCG Progesterone TSH	Beckman Coulter Dxl 800/Access 2 for Electrochemiluminescence immunoassay:  PF-BIO-LP-1	BTUH SUH HUB



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HUMAN BODY FLUIDS (cont'd)	<u>Biochemistry examination activities for the purpose of clinical diagnosis (cont'd)</u>	Documented in-house procedures in conjunction with manufacturer's instructions for analysis using:	
Serum / Plasma	AFP Ca-125 Ca-199 Ca-153 CEA	Roche Cobas E411 random access colorimetry or turbidimetry or chemiluminescence technology for tumour markers:  PF-BIO-LF-9	HUB
Serum / Plasma	NT-Pro-BNP	Roche Cobas E411 random access colorimetry or turbidimetry or chemiluminescence technology for cardiac markers:  PF-BIO-LF-9	HUB BTUH
Serum / Plasma	Troponin T	Roche Cobas E411 random access colorimetry or turbidimetry or chemiluminescence technology for cardiac markers:  PF-BIO-LF-9	HUB BTUH SUH
Serum	Detection of serum proteins: Bence Jones Protein	Sebia Capillarys 2 Flex Capillary electrophoresis BJP screen  PF-BIO-LP-27 PF-BIO-LP-28 PF-BIO-LP-47	HUB



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HUMAN BODY FLUIDS (cont'd)	<u>Biochemistry examination activities for the purpose of clinical diagnosis (cont'd)</u>	Documented in-house procedures in conjunction with manufacturer's instructions for analysis using:	
Serum / Plasma / Urine	Paraprotein band (s)	Sebia Hydrasys 2 Scan using serum and urine immunofixation electrophoresis.  PF-BIO-LP-30 PF-BIO-LP-50 PF-BIO-LP-33	HUB
Serum / Plasma / Urine	Identification of Bence Jones Proteins	Sebia Hydrasys 2 Scan using serum and urine immunofixation electrophoresis.  PF-BIO-LP-30 PF-BIO-LP-50 PF-BIO-LP-33	HUB
Serum/Plasma/Urine	Osmolality	Advanced Micro-Osmometer Model 3320  Measurement of depression of freezing point.  PF-BIO-LP-12	BTUH SUH
Faeces	Calprotectin	Dynex DS2 for selective measurement of calprotectin antigen by sandwich ELISA technology.  PF-BIO-LP-44	HUB



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HUMAN BODY FLUIDS (cont'd)	<u>Biochemistry examination activities for the purpose of clinical diagnosis (cont'd)</u>	Documented in-house procedures in conjunction with manufacturer's instructions for analysis using:	
Cerebral Spinal Fluid	Xanthochromia	Spectrophotometric method using UVIKON xsr Spectrophotometry with Bio-c program.  PF-BIO-LP-26	BTUH
Cerebral Spinal Fluid	Xanthochromia	Spectrophotometric method using UVIKON xsr Spectrophotometry: Nicolette evolution 100  PF-BIO-LP-41	SUH
Serum / Plasma	Kappa and /or Lambda Free Light Chains	SPA-Plus analyser using immuno-turbidimetric technology.  PF-BIO-LF-179 PF-BIO-LP-36	HUB
	<u>Immunology examination activities for the purpose of clinical diagnosis</u>	Documented in-house procedures in conjunction with manufacturer's instructions for analysis using:	
Serum / Plasma	Growth Hormone DHAS Androstenedione Erythropoetin B2 Microglobulin	Immulite 2000 :Electro chemiluminescence immunoassay  PF-BSM-LP-8  Sandwich immunoassay Competitive immunoassay Competitive immunoassay Enhanced Sandwich immunoassay Sandwich immunoassay	HUB





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HUMAN BODY FLUIDS (cont'd)	<u>Immunology examination activities for the purpose of clinical diagnosis (cont'd)</u>	Documented in-house procedures in conjunction with manufacturer's instructions for analysis using:	
Serum / Plasma	Almond Alternaria Apple Apricot Ara h2 peanut ARA H8 Specific IgE Aspergillus fumigatus Aspergillus fumigatus specific IgG Aspergillus niger	Phadia 250 analysers with fluorescence enzyme immunoassay technology  PF-IMM-LP-7 PF-IMM-LP-10	HUB
Serum / Plasma	Avocado Banana Barley Basil Beef Black pepper Blackberry Blue Mussel Blueberry Brazil nut Broccoli Buckwheat Budgerigar feathers Budgerigar specific IgG Cabbage Cacao Candida albicans Cardamon Carrot	Phadia 250 analysers with fluorescence enzyme immunoassay technology  PF-IMM-LP-7 PF-IMM-LP-10	HUB



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HUMAN BODY FLUIDS (cont'd)	<u>Immunology examination activities for the purpose of clinical diagnosis (cont'd)</u>	Documented in-house procedures in conjunction with manufacturer's instructions for analysis using:  Phadia 250 analysers with fluorescence enzyme immunoassay technology  PF-IMM-LP-7 PF-IMM-LP-10	HUB
Serum/Plasma (cont'd)	Casein Cashew Cat dander CCP (IgG) Celery Cheddar cheese Cherry Chick pea Chicken Chilli pepper Cladosporium herbarum Clam Clove Coconut Coffee Common ragweed Common wasp COR A8 specific IgE Coriander Cotton, crude fibres Cows milk Crab Cranberry Crayfish CTD Screen (ANA) Cucumber Curry (Santa Maria) Date Dog dander Duck feathers Egg white Egg yolk ENA Screen Fish (cod) Fish mix Food mix		



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HUMAN BODY FLUIDS (cont'd)	<u>Immunology examination activities for the purpose of clinical diagnosis (cont'd)</u>	Documented in-house procedures in conjunction with manufacturer's instructions for analysis using:  Phadia 250 analysers with fluorescence enzyme immunoassay technology  PF-IMM-LP-7 PF-IMM-LP-10	HUB
Serum/Plasma (cont'd)	Fruit mix specific IgE Garlic Ginger Gluten Goat milk Goat epithelium Grain mix Grape Grapefruit Grass mix Green bean Green pepper Guinea pig Haddock Hamster Lemon Lentil Lettuce Lime Lobster Lupine seed M2 Antibodies Macadamia nut Mackerel Maize/corn Mango Melon Micropolyspora faeni specific Mint Mosquito Rat mix Red Kidney bean Rice Rye Sage Salmon		



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HUMAN BODY FLUIDS (cont'd)	<u>Immunology examination activities for the purpose of clinical diagnosis (cont'd)</u>	Documented in-house procedures in conjunction with manufacturer's instructions for analysis using:  Phadia 250 analysers with fluorescence enzyme immunoassay technology  PF-IMM-LP-7 PF-IMM-LP-10	HUB
Serum/Plasma (cont'd)	Scallop Sesame seed Sheep epithelium Shrimp Silver Birch Soybean Squid Strawberry Sunflower seed Sweet Potato Tea Timothy grass Tomato Tree pollen mix UK Tryptase Tuna Walnut Wheat White bean Yeast		



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HUMAN BODY FLUIDS (cont'd)	<u>Immunology examination activities for the purpose of clinical diagnosis (cont'd)</u>	Documented in-house procedures in conjunction with manufacturer's instructions for analysis using:  Phadia 250 analysers with fluorescence enzyme immunoassay technology.	
Serum / Plasma	Anti-MPO Anti-PR3 Anti-TTG IgA Anti-cardiolipins (IgG and IgM) ENA CTD antibodies Ds DNA (EIA) Anti-TTG IgG Anti-GBM	PF-IMM-LP-14 PF-IMM-LP-10 PF-IMM-LP-11 PF-IMM-LP-15 PF-IMM-LP-17 PF-IMM-LP-18 PF-IMM-LP-19 PF-IMM-LP-20 PF-IMM-LP-21 PF-IMM-LP-22	HUB
Serum	Detection of autoantibodies:	NovaLite monkey oesophagus slides using Indirect Immunofluorescence method	
Serum	EMA IgG EMA IgA	PF-IMM-LP-9	HUB
Serum	ANCA abs	NovaLite ANCA slides using Indirect Immunofluorescence method	HUB
Serum	Anti-dsDNA (crithida) antibodies	PF-IMM-LP-2  NovaLite Crithidia luciliae slides using Indirect Immunofluorescence method	HUB
Serum	Anti-nuclear antibodies	PF-IMM-LP-3  Biosystems HEp-2 slides using Indirect Immunofluorescence method	HUB
		PF-IMM-LP-1	



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HUMAN BODY FLUIDS (cont'd)  Serum / Plasma	<u>Immunology examination activities for the purpose of clinical diagnosis (cont'd)</u>  Liver and pernicious anaemia	Documented in-house procedures in conjunction with manufacturer's instructions for analysis using:  Detection of autoantibodies using ImmuGlo mouse liver/kidney/stomach slides using Indirect Immunofluorescence method  PF-IMM-LP-7	HUB
END			