### **Schedule of Accreditation**

issued by

## **United Kingdom Accreditation Service**

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



9623

Accredited to ISO 15189:2022

### **Sheffield Teaching Hospitals NHS Foundation Trust**

Issue No: 015 Issue date: 07 February 2025

Rotherham Hospital Contact: Natalie Holmes
Moorgate Road Tel: +44 (0) 1709 424008

Rotherham E-Mail: sth.sybpqrg@nhs.net

Website: http://www.therotherhamft.nhs.uk/

Testing performed by the Organisation at the locations specified below

### Locations covered by the organisation and their relevant activities

### **Laboratory locations:**

Location details	Site Activity
The Rotherham NHS Foundation Trust Moorgate Road Rotherham S60 2UD	Biochemistry Haematology and Blood Transfusion Blood Fridges (Blood Transfusion Laboratory)  • Blood Stock Fridge APL2  • Blood Issue Fridge APL3 Immunology Microbiology Cellular Pathology Andrology

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

S60 2UD

Location details	Activity
Mortuary / Body Store The Rotherham NHS Foundation Trust Moorgate Road Rotherham S60 2UD	Mortuary Services (body receipt, storage, and release)

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#### **DETAIL OF ACCREDITATION**

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
HUMAN BODY FLUIDS	Biochemistry examination activities for the purposes of clinical diagnosis:	Documented in house methods and manufacturers' instructions for:
	Automated Routine Biochemistry	
	Quantitative determination of:	Siemens Atellica CH SOP LP-BIO- AL-130 by:
Serum/Plasma	Alpha 1 Antitrypsin	Immunoturbidimetric
Serum/Plasma	Albumin	BCG
Serum/Plasma	Alkaline Phosphatase	Enzymatic
Serum/Plasma	ALT	Enzymatic
Lithium heparin plasma	Ammonia	Enzymatic
Serum/Plasma	AST	Enzymatic
Serum/Plasma	Beta-2-Microglobulin	Latex agglutination
Serum/Plasma	Bicarbonate	Enzymatic
Serum/Plasma/Urine	Calcium	Arsenazo III
Serum/Plasma	Carbamazepine	PETINIA
Serum/Plasma	Cholesterol	Chol esterase
Serum/Plasma	Creatine Kinase	Enzymatic
Serum/Plasma/Urine	Chloride	Indirect ISE
Serum	Complement C3	Immunoturbidimetric
Serum	Complement C4	Immunoturbidimetric
Serum/Plasma	Direct (Conjugated) Bilirubin	Endpoint oxidation
Serum/Plasma	HDL- Cholesterol	Trinder reaction
Serum/Plasma/Urine	Creatinine	Enzymatic
Serum/Plasma	Gentamicin	PETINIA

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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
HUMAN BODY FLUIDS (cont'd)	Biochemistry examination activities for the purposes of clinical diagnosis (cont'd):	Documented in house methods and manufacturers' instructions for:
	Quantitative determination of: (cont'd)	Siemens Atellica CH SOP LP-BIO-AL-130 by:
Serum/Plasma	Gamma GT	Enzymatic
Serum/Flox Plasma/CSF	Glucose	Enzymatic
Serum	Haptoglobin	PEG enhanced
Serum/Plasma	IgA	PEG enhanced
Serum/Plasma	IgG	PEG enhanced
Serum/Plasma	IgM	PEG enhanced
Serum/Plasma/Urine	Inorganic phosphorus	Molybdate
Serum/Plasma	Iron	Ferrozine
Serum/Plasma	Paracetamol	Enzymatic
Serum/Plasma/Urine	Potassium	Indirect ISE
Serum/Plasma	LDH	Enzymatic
Flox Plasma/CSF	Lactate	Enzymatic
Serum/Plasma	Lipase	Enzymatic
Serum/Plasma	Lithium	Colorimetric endpoint
Serum/Plasma/Urine	Magnesium	Xylidyl blue
Serum/Plasma/Urine	Sodium	Indirect ISE
Serum/Plasma	Phenytoin	PETINIA
Serum/Plasma	Salicylate	Enzymatic
Serum/Plasma	Total Bilirubin	Vanadate oxidation
Serum/Plasma	Theophylline	PETINIA
Serum/ Plasma	Total protein	Biuret

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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
HUMAN BODY FLUIDS (cont'd)	Biochemistry examination activities for the purposes of clinical diagnosis (cont'd):	Documented in house methods and manufacturers' instructions for:
	Quantitative determination of: (cont'd)	Siemens Atellica CH SOP LP-BIO- AL-130 by:
Serum/Plasma	Transferrin	PEG- enhanced immunoturbidimetric
Serum/Plasma	Triglycerides	Enzymatic
Serum/Plasma	Caeruloplasmin	Turbidimetric
Serum/Plasma	Bile acids	Enzymatic
Serum/Plasma/Urine	Uric acid	Enzymatic
Serum/Plasma/Urine	Urea	Enzymatic
Urine/CSF	Protein	Pyrogallol red
Serum/Plasma	Valproic acid (Valproate)	PETINIA
Serum/ Plasma	C-reactive protein	Latex agglutination
	Calculated Tests	Results from Siemens Atellica CH SOP LP-BIO-AL-130 and calculations by WinPath Enterprise
Serum/Plasma	Osmolar gap	
Serum/Plasma	Globulin	
Serum/Plasma	Adjusted calcium	
Serum/Plasma	Cholesterol: HDL ratio	
Serum/Plasma	LDL	
Serum/Plasma	Non-HDL	
Serum/Plasma	Iron binding capacity	
Serum/Plasma	Transferrin saturation	
24h Urine	Sodium	

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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
HUMAN BODY FLUIDS (cont'd)	Biochemistry examination activities for the purposes of clinical diagnosis (cont'd):	Documented in house methods and manufacturers' instructions for:
	Calculated Tests (cont'd)	Results from Siemens Atellica CH SOP LP-BIO-AL-130 and calculations by WinPath Enterprise
24h Urine	Potassium	
24h Urine	Chloride	
24h Urine	Creatinine	
24h Urine	Urea	
24h Urine	Calcium	
24h Urine	Phosphate	
24h Urine	Urate	
24h Urine	Magnesium	
24h Urine	Protein	
Urine	Protein: Creatinine Ratio	
Urine	Calcium: Creatinine Ratio	
Urine	Calcium Clearance	
Urine	Calcium Excretion	
Urine/Serum/Plasma	24- hour Creatinine Clearance	
Serum	eGFR	
Serum	CKD Status	
Serum	AKI	

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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
HUMAN BODY FLUIDS (cont'd)	Biochemistry examination activities for the purposes of clinical diagnosis (cont'd):	Documented in house methods and manufacturers' instructions for:
	Quantitative determination of:	Siemens Atellica IM SOP LP-BIO- AL-130 by immunoassay
Serum/Plasma	Cortisol	
Serum	Digoxin	
Serum/Plasma	Erythropoietin	
Serum/Plasma	Ferritin	
Serum	Folate	
Serum/Plasma	FSH	
Serum/Plasma	Free T3	
Serum/Plasma	Free T4	
Serum/Plasma	TPO	
Serum/Plasma	LH	
Serum/Plasma	Progesterone	
Serum/Plasma	Prolactin	
Serum	Macro-Prolactin	
Serum	Total HCG	
Serum/Plasma	Troponin I	
Serum/Plasma	TSH	
Serum/Plasma	Vitamin B12	

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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
HUMAN BODY FLUIDS (cont'd)	Biochemistry examination activities for the purposes of clinical diagnosis (cont'd):	Documented in house methods and manufacturers' instructions for:
	Manual Biochemistry	
Serum /Urine	Osmolality	Advanced Instruments Osmo 1 Osmometer SOP LP-BIO-ODD-043 Depression of freezing point
	Blood Gas Profile:	IL GEM 5000 SOP LP-BIO-ODD- 0421 by:
Whole Blood	рН	Potentiometric Sensor
Whole Blood	pCO <sub>2</sub>	Potentiometric Sensor
Whole Blood	pO <sub>2</sub>	Potentiometric Sensor
Whole Blood	Carbon Monoxide	Amperometric Sensor
Whole Blood	Carboxyhaemoglobin	Optical measurement following chemical lysing and mixing of whole blood samples
Whole Blood	Methaemoglobin	Optical measurement following chemical lysing and mixing of whole blood samples
Whole Blood	Oxyhaemoglobin	Optical measurement following chemical lysing and mixing of whole blood samples
Whole Blood	Whole Blood Sodium	Potentiometric Sensor
Whole Blood	Whole Blood Potassium	Potentiometric Sensor
Whole Blood	Whole Blood Lactate	Amperometric Sensor
Whole Blood	Whole Blood Glucose	Amperometric Sensor
Whole Blood	Whole Blood Ionised Calcium	Potentiometric Sensor

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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
HUMAN BODY FLUIDS (cont'd)	Biochemistry examination activities for the purposes of clinical diagnosis (cont'd):	Documented in house methods and manufacturers' instructions for:
	Specialist Biochemistry	
CSF	Xanthochromia	Scanning spectrophotometry (UVIKON) SOP LP-BIO-ODD-030
Serum	Vitamin A & E	HPLC UV Detection (Chromsystems) SOP LP-BIO-HPL-001
Serum	Vitamin C	HPLC UV Detection (Chromsystems) SOP LP-BIO-HPL-002
Whole Blood	Vitamin B1	HPLC Fluorimetric Detection (Chromsystems) SOP LP-BIO-HPC-011
Whole Blood	Vitamin B6	HPLC Fluorimetric Detection (Chromsystems) SOP LP-BIO-HPC-010
Urine	Catecholamines	HPLC ECD (Chromsystems) SOP LP-BIO-HPC-005
Urine	Metanephrines	HPLC ECD (Chromsystems) SOP LP-BIO-HPC-007
Urine	5-HIAA	HPLC ECD (Chromsystems) SOP LP-BIO-HPC-018
Faeces	Calprotectin	Double- Sandwich ELISA Dynex DS2 SOP LP-BIO-ODD-035

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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
HUMAN BODY FLUIDS (cont'd)	Haematological examination activities for the purposes of clinical diagnosis:	Documented in house methods and manufacturer's instructions for:
	Full Blood Count (FBC) Analysis of the following parameters:	Siemens ADVIA 2120i SOP LP-HAE-LAB-094 by:
Blood	Platelets	Mie Theory of light scatter, Siemens reagent
Blood	Red Blood Cells	Cytochemical method using ADVIA 2120 RBC/PLT reagent
Blood	Haemoglobin Haematocrit MCV MCH MCHC RDW	Cyanide- free haemoglobin method
Blood	White Cell Count Neutrophils Lymphocytes Monocytes Eosinophils Basophils LUCs	Peroxidase (Differential cellular staining and Basophil (lobularity) methods
	Manual differential for:	Blood Film and Manual Diff using:
	Metamyelocytes Myelocytes Promyelocytes	Siemens Hematek Analyser and Wright- Giemsa stained films
	Blasts Nucleated RBC	Manual method using May – Grunwald- Giemsa stained films
		Examined by microscopy
		SOP LP-HAE-LAB-088, LP-HAE- LAB-039

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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
HUMAN BODY FLUIDS (cont'd)	Haematological examination activities for the purposes of clinical diagnosis (cont'd):	Documented in house methods and manufacturer's instructions for:
Blood	Reticulocytes	Siemens ADVIA 2120 SOP-LP-HAE-LAB-020 Cytochemical method using ADVIA 120 autoRETIC reagent
Blood	ESR	Vitech Starrsed Compact SOP LP-HAE-LB-071 Westergren method
	Coagulation Studies	
Blood (Plasma)	INR	Stago STA-R Max SOP LP-HAEM-COA-048 Chronometric assay using STA®- Neoplastin® R, Manufacturer's ISI and mean normal Prothrombin Time established from the geometric mean of a minimum of 20 normal subjects
Blood (Plasma)	Activated Partial Thromboplastin Time (APTT) (iv heparin monitoring)	Stago STA-R Max SOP LP-HAEM-COA-048 Chronometric assay using STA®- Cephascreen® and the mean normal Activated Partial Thromboplastin Time established from the geometric mean of a minimum of 20 normal subjects
Blood (Plasma)	Prothrombin Time	Stago STA-R Max SOP LP-HAEM-COA-048 Chronometric assay using STA®- Neoplastin® R
Blood (Plasma)	APTT	Stago STA-R Max SOP LP-HAEM-COA-048 Chronometric assay using STA®- Cephascreen®
Blood (Plasma)	Fibrinogen	Stago STA-R Max SOP LP-HAEM-COA-048 Clauss clotting method using STA®- Fibrinogen 5

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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
HUMAN BODY FLUIDS (cont'd)	Haematological examination activities for the purposes of clinical diagnosis (cont'd):	Documented in house methods and manufacturer's instructions for:
Blood (Plasma)	D-Dimer	Stago STA-R Max SOP LP-HAEM-COA-048 Immunoturbidimetric method using STA®-Liatest®
Blood (Plasma)	Mixing Studies	Stago STA-R Max SOP LP-HAEM-COA-010 STA®-Cephascreen® and/or Chronometric assay using STA®- Neoplastin® R
Blood (Plasma)	Actin FS APTT	Stago STA-R Max SOP LP-HAEM-COA-048 Chronometric assay using Sysmex Actin FS
	Lupus Testing:	
Blood (Plasma)	Dilute Russell Viper's Venom Screen	Stago STA-R Max SOP LP-HAEM-COA-053 Chronometric assay using snake venom to activate phospholipid- dependent part of coagulation cascade
Blood (Plasma)	Dilute Russell Viper's Venom Confirm	Stago STA-R Max SOP LP-HAEM-COA-053 Chronometric assay using snake venom to activate phospholipid- dependent part of coagulation cascade and excess phospholipid to neutralise LA
Blood (Plasma)	PTTLA (Lupus sensitive APTT reagent	Stago STA-R Max SOP LP-HAEM-COA-053 Chronometric assay using LA- sensitive STA®-PTTLA reagent
Blood (Plasma)	Actin FS (Lupus insensitive APTT reagent)	Stago STA-R Max SOP LP-HAEM-COA-053 Chronometric assay using LA- insensitive Sysmex Actin FS reagent

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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
HUMAN BODY FLUIDS (cont'd)	Haematological examination activities for the purposes of clinical diagnosis (cont'd):  Manual Testing	Documented in house methods and manufacturer's instructions for:
Blood	Glandular Fever Screen for IM heterophile antibodies	Accusay Mono IM SOP LP-HAE-LAB-065 Bovine erythrocyte extract (immunoassay)
Blood	Plasmodium falciparum HRP2 & P. falciparum, P. vivax, P. ovale, P. malariae Pan LDH	Apacor CareUS Rapid Malaria Test (RDT) SOP LP-HAE-LAB-038 Immuno-chromatographic method
Blood	Thick and thin blood film for detection of malarial parasite stages	SOP LP-HAE-LAB-038 Manual staining at pH 7.2, Giemsa Stain and microscopy
Blood	Sickle Test for detection of HbS	Microgen m96-50 S-test kit SOP LP-HAE-LAB-001 Qualitative method using phosphate buffer and sodium dithionate (reducing agent)
		Documented in-house methods to meet the requirements of the Sickle Cell and Thalassaemia Screening Programme as defined in the July 2018 'NHS Sickle Cell and Thalassaemia Screening Programme: laboratory quality assurance evidence requirements (Provisional Screen)
	Haemoglobinopathy Investigation	(i Tovisional Golden)
	Haemoglobinopathy Investigations to determine HbA2 and HbF levels and the presence of abnormal haemoglobins	TOSOH G11 HPLC technology to determine with reference to:
Blood		SOP LP-HAE-HBO-094 (Routine)
Blood		SOP LP-HAEHBO-003 (Ante-natal Haemoglobinopathy Screening Programme)

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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
HUMAN BODY FLUIDS (cont'd)	Haematological examination activities for the purposes of clinical diagnosis (cont'd):	Documented in house methods and manufacturer's instructions for:
	Lymphocyte Subsets	
Blood	Determination of lymphocyte subsets in GUM and Paediatric patients: Reported for all: CD3 % AND ABSOLUTE CD3+CD4+ % AND ABSOLUTE CD3+CD8+ % AND ABSOLUTE CD4:8 RATIO	BD FACS Canto II SOP LP-HAEM-FC-024 Using flow cytometry and relevant fluorochrome- conjugated monoclonal antibodies to detect specific lymphocyte populations
HUMAN BODY FLUID	Blood Transfusion examinations to assist in clinical investigations	Documented in house methods and manufacturer's instructions for:
Blood	Group and Save (including antibody screen)  Adult/Paediatric patients (>4 months) Neonates (<4 months) Automated Blood Groups  - ABO and RhD systems:  - RhD positive  - A RhD positive  - AB RhD positive  - RhD negative  - A RhD negative  - B RhD negative  AB RhD negative  AB RhD negative	IH-1000 Analyser, using DiaMed Gel Column Technology, Routine Grouping SOP LP-BB-LAB-098 DiaMed Banjo Card Reader SOP LP-BB-LAB-101

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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
HUMAN BODY FLUID (cont'd)	Blood Transfusion examinations to assist in clinical investigations (cont'd)	Documented in house methods and manufacturer's instructions for:
Blood	Group and Save  Adult/Paediatric patients (>4 months) Neonates (<4 months) - ABO and RhD systems: - RhD positive - A RhD positive - B RhD positive - AB RhD positive - RhD negative - A RhD negative - B RhD negative AB RhD negative AB RhD negative	Manual Grouping, using DiaMed Gel Column Technology SOP LP-BB-LAB-100 DiaMed Banjo Card Reader SOP LP-BB-LAB-101
Blood	Group and Save  Adult/Paediatric patients (>4 months)  Neonates (<4 months)  - ABO and RhD systems:  - RhD positive  - A RhD positive  - AB RhD positive  - RhD negative  - A RhD negative  - B RhD negative  AB RhD negative  AB RhD negative	Urgent Requests SOP LP-BB-LAB-060 Tube agglutination and DiaMed Gel Column Technology, Emergency Grouping and Issue of Group Compatible Blood SOP LP-BB-LAB-015  DiaMed Banjo Card Reader SOP LP-BB-LAB-101

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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
HUMAN BODY FLUID (cont'd)	Blood Transfusion examinations to assist in clinical investigations (cont'd)	Documented in house methods and manufacturer's instructions for:
Blood	Crossmatch	IH-1000 Analyser using DiaMed Gel Column Technology. Compatibility Testing (Crossmatching) SOP LP-BB-LAB-010 Routine Grouping SOP LP-BB-LAB- 098
		DiaMed Banjo Card Reader SOP LP-BB-LAB-101 Neonatal cross-match procedure Mother and Baby Crossmatching SOP LP-BB-LAB-031
Blood	Crossmatch	Manual Crossmatching using DiaMed Gel Column Technology Compatibility Testing SOP LP-BB- LAB-010
		DiaMed Banjo Card Reader SOP LP-BB-LAB-101
		Neonatal cross-match procedure SOP LP-BB-LAB-031
Blood	Red cell Phenotyping (RhK and other antigens) Blood Groups (phenotyping) (C, c, E, e, K, k, Fya, Fyb, Jka, Jkb, S, s, M, N, P1, Lea, Leb, Lu(a),	IH-1000 Analyser using DiaMed Gel Column Technology and Lorne antisera. Red Cell phenotyping procedure using antigen profile cards
	Kp(a))	SOP LP-BB-LAB-108 SOP LP-BB-LAB-098 Routine Grouping
		Manual Testing using DiaMed Gel Column Technology Identification of Atypical Antibodies SOP LP-BB-LAB-023 using enzyme IAT
		DiaMed Banjo Card Reader SOP LP-BB-LAB-101

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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
HUMAN BODY FLUID (cont'd)	Blood Transfusion examinations to assist in clinical investigations (cont'd)	Documented in house methods and manufacturer's instructions for:
Blood	Antibody Identification (C, c, D, E, e, K, k, Fya, Fyb, Jka, Jkb, S, s, M, N, P1, Lea, Leb, Lu(a), Kp(a))	IH-1000 Analyser using DiaMed Gel Column Technology. Identification of Atypical Antibodies SOP LP-BB-LAB-023 using enzyme IAT SOP LP-BB-LAB-098 Routine Grouping
		Manual Testing Identification of Atypical Antibodies SOP LP-BB-LAB-023 using enzyme IAT Manual Testing SOP LP-BB-LAB- 100 DiaMed Banjo Card Reader SOP LP-BB-LAB-101
Blood	Fetomaternal haemorrhage Estimation (Kleihauer)	BD FACS Canto II SOP LP-BB-LAB-038 Flow cytometry. Prevention of Haemolytic Disease of the Newborn due to Anti-D including FMH Testing
Blood	Monospecific DAT (C3d, C3c, IgG, IgA, IgM)	IH-1000 Analyser using DiaMed Gel Column Technology Monospecific Direct Anti-Human Globulin Test SOP LP-BB-LAB-030 Routine Grouping SOP LP-BB-LAB- 098
		Manual Testing Using DiaMed Gel Column Technology, Monospecific Direct Anti-Human Globulin Test SOP LP-BB-LAB-030 Manual Testing SOP LP-BB-LAB- 100 DiaMed Banjo Card Reader SOP LP-BB-LAB-101

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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
HUMAN BODY FLUID (cont'd)	Blood Transfusion examinations to assist in clinical investigations (cont'd)	Documented in house methods and manufacturer's instructions for:
	Immunological examinations to assist in clinical investigations:	Documented in house methods and manufacturers' instructions for:
Blood	Identification of:	Biosystems IPro Slide Processor/ Immunofluorescence Workstation and microscope Liver/Kidney/Stomach Tissue Block SOP LP-IML-075
	Antinuclear Antibody	
	Anti- Neutrophil Cytoplasmic Antibody	
	Crithidia Antibody	
	Endomysial Antibody	
Blood	Identification of:	Siemens Immulite Immunoassay Analyser with chemiluminescence detection SOP LP-IML-083
	Total IgE	SOP LP-IML-027

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HUMAN BODY FLUID (cont'd)	Immunological examinations to assist in clinical investigations: (cont'd)	Documented in house methods and manufacturer's instructions for:
	Allergen- specific IgE	Siemens Immulite Immunoassay Analyser with chemiluminescence detection SOP LP-IML-083
	Cat E1 House dust mite D1	COL EL IIVIE GOO
	Dog E5 Timothy grass G6	
	Aspergillus M3 Nut mix FP1 (F13, F17, F18, F20, F36)	
	Peanut F13 Hazelnut F17	
	Brazil nut F18 Almond F20 Walnut F256	
	Food Mix FP5 (F1, F2, F3, F13, F14) Egg white F1	
	Milk F2 Cod fish F3 Wheat F4	
	Soybean F14 Egg Yolk F75 Figh mix FP2 (F2 F27 F24 F40	
	Fish mix FP2 (F3, F37, F24, F40, F41) Latex K82	
	Birch T3 Weed Panel WX3 (W6, W9, W10, W12, W20)	
	Tree Panel TP8 (T1, T3, T4, T7, T11)	
	F36 = coconut F37 = Blue mussel F24 = Shrimp/prawn	
	F40 = Tuna F41 = Salmon	
	T1 = Box-elder T2 = Grey alder T4 = Hazel	
	T7 = Oak T11 = London Plane/Maple leaf	
	sycamore W9= Plantain	

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Materials/Products tested	Type of test/Properties	Standard specifications/
Waterials/Froducts tested	measured/Range of measurement	Equipment/Techniques used
HUMAN BODY FLUID (cont'd)	Immunological examinations to assist in clinical investigations: (cont'd)	Documented in house methods and manufacturer's instructions for:
	Allergen- specific IgE (cont'd)	Siemens Immulite Immunoassay Analyser with chemiluminescence detection SOP LP-IML-083
	W10 = Goosefoot W12 = Golden Rod W20 = Nettle W6 = Mugwort	COT ET IME GOO
	IgG Aspergillus Precipitins	SOP LP-IML-051
Blood	Identification and quantitation of main protein fractions (albumin, alpha 1, alpha-2, , β-1, β-2, gamma fractions)	Sebia Capillarys 3 SOP LP-IML-081 Capillary Protein Electrophoresis and serum immunotyping
Serum	Immunotyping for protein characterisation	
Urine	Bence Jones Protein Screen	Sebia Hydrasys 2 Gel Electrophoresis SOP LP-IML- 101
	Bence Jones Protein Immunofixation	
Blood	Identification of:	Alegria Organtec Immunoassay Analyser SOP LP-IML-050 ELISA
	Mitochondrial M2 Antibodies	LLIOA
	ENA Antibody Screen	
	DsDNA Antibodies	
	Anti-Gliadin Antibodies	

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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
HUMAN BODY FLUID (cont'd)	Immunological examinations to assist in clinical investigations: (cont'd)	Documented in house methods and manufacturer's instructions for:
Blood (cont'd)	Identification of: (cont'd)	Alegria Organtec Immunoassay Analyser SOP LP-IML-050 ELISA
	Centromere B Antibodies	
	Glomerular Basement Membrane Antibodies	
	Intrinsic Factor Antibodies	
	PR3/MPO Antibody	
	IgG Tissue Transglutaminase Antibodies	
Blood	Identification of:	Dynex DS2 Automated ELISA Processing Workstation SOP LP-IML-076
	IgA tTG	
Blood	Cryoglobulin Screen	SOP LP-IML-026 Visual check for precipitation at 4oC
Blood	ENA Typing: Anti RNP/Sm Ab Anti Sm Ab Anti-Ro Ab Anti La Ab Anti Scl70 Ab Anti Jo-1 Ab	Euroimmun Immunoblot Kit SOP LP-IML-016

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HUMAN TISSUES AND FLUIDS	Microbiological examinations to assist in clinical investigations	In house documented methods based on related UK Standards for Microbiology Investigations (PHE SMIs):
	Bacteriology Section	,
Blood	Isolation of microorganisms of clinical significance	BacTAlert 3D SOP LP-MIC-BAC-014 Blood Culture
Blood Culture	Sensitivity testing	Rapid Antimicrobial Susceptibility Testing (RAST) SOP LP-MIC-BAC-014
CSF	Isolation of microorganisms of clinical significance and microscopical examination	SOP LP-MIC-BAC-016 Manual culture, cell count and Gram stain
Swabs/ Pus from various anatomical sites	Isolation of microorganisms of clinical significance and microscopical examination	SOP LP-MIC-BAC-015 SOP LP-MIC-BAC-020 Manual culture and Gram staining and microscopy
Ascitic and Joint Fluids	Isolation of microorganisms of clinical significance and microscopical examination	SOP LP-MIC-BAC-023 Manual culture and microscopy including Gram staining
Eye swabs, aspirates and corneal scrapes	Isolation of bacterial and fungal microorganisms of clinical significance and microscopical examination	SOP LP-MIC-BAC-041 Manual culture and Gram stained microscopy
Sputum and bronchial lavage	Isolation of bacterial and fungal microorganisms of clinical significance and microscopical examination	SOP LP-MIC-BAC-002 Manual culture
Sputum, BAL and tissue	Isolation and presumptive Identification of <i>Mycobacterium</i> spp.	AAFB/Auramine staining and microscopy LP-MIC-BAC-005 Culture using Bact/Alert LP-MIC-BAC-038
Liquid mycobacterial culture medium.	Qualitative detection of Mycobacterium tuberculosis complex antigen MPT64	TBCheck MPT64 assay using rapid immunochromatography LP-MIC-BAC-038
Skin and nail scrapes	Microscopy (KOH preps) and culture for dermatophyte fungi	Manual methods LP-MIC-BAC-004

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HUMAN TISSUES AND FLUIDS (cont'd)	Microbiological examinations to assist in clinical investigations (cont'd)	In house documented methods based on related UK Standards for Microbiology Investigations (PHE SMIs):
Bacterial Isolates	Identification of microorganisms of clinical significance	VITEK: SOP LP-MIC-BAC-001 and Manual conventional methods inc RESIST 3 kit for CPE organisms LP- MIC-BAC-066, 073, 074, 075,076, 077, 078, 079, 081,084
Bacterial, Mould and Yeast Isolates	Identification of microorganisms of clinical significance	Vitek MS (MALDI-Toff) SOP LP-MIC-BAC-088 Mass spectrometry
Bacterial and Yeast Isolates	Sensitivity Testing	SOP LP-MIC-BAC-068 Disc Diffusion Testing - EUCAST VITEK2 Automated System SOP LP-MIC-BAC-001 Vitek compact analyser LP MIC BAC 048 MIC testing for susceptibility to Colistin Bioconnections MIC Strip Colistin Kit
Faeces	Clostridioides (formerly Clostridium) difficile Toxin Detection	Manual test SOP LP-MIC-BAC-051 Enzyme immunochromatographic test R-Biopharm RIDAQuick toxin a/b test
Faeces	Clostridioides (formerly Clostridium) difficile Antigen Detection	SOP - LP MIC BAC 051 using ProFlow GDH kit
Faeces	Rotavirus and Adenovirus Antigens	Manual test SOP LP-MIC-BAC-049
		Enzyme immunochromatographic test R-Biopharm QuickStripe Rotavirus/Adenovirus (cassette format
Faeces	Norovirus Antigen	Manual test SOP LP-MIC-BAC-055 Enzyme immunochromatographic test R-Biopharm RIDAQUICK Norovirus- cassette format

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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
HUMAN TISSUES AND FLUIDS (cont'd)	Microbiological examinations to assist in clinical investigations (cont'd)	In house documented methods based on related UK Standards for Microbiology Investigations (PHE SMIs):
Faeces, Rectal Swabs	Isolation of gastro-intestinal microorganisms of clinical significance	SOP LP-MIC-BAC-009 Manual culture
Faeces and Urine	Microscopical identification of ova, cysts and parasites	SOP LP-MIC-BAC-052 using Parasep and Manual microscopy
Genital Tract Samples,	Isolation of genital microorganisms of clinical significance	SOP LP-MIC-BAC-017 Manual culture
	Serology Section	
Blood	Detection of:	Vidas FPIA SOP LP-MIC-VIR-043 Enzyme- linked Fluorescent assay – automated using VIDAS Blue
	Hepatitis Bs Antigen Rubella IgG Rubella IgM HIV Serology CMV IgG CMV IgM CMV Avidity Test Measles IgG Mumps IgG Toxoplasma Screen Helicobacter IgG Antibody Varicella zoster IgG Procalcitonin EBV VCA IgM EBNA IgG	
Blood	Detection of:	Dynex DS2 SOP LP-MIC-BAC-057 SOP LP-MIC-VIR-047 Automated EIA
	Parvovirus IgG Parvovirus IgM	

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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
HUMAN TISSUES AND FLUIDS (cont'd)	Microbiological examinations to assist in clinical investigations (cont'd)	Documented in house methods and manufacturer's instructions for:
	Serology Section (cont'd)	
Blood	Quantiferon testing	Interferon gamma release test IGRA using Dynex DS2 SOP LP-MIC-BAC-65 Automated EIA
Faeces	Detection of Helicobacter Antigen	Dynex DS2 SOP LP-MIC-BAC-050 Automated EIA
Blood	Anti-DNase B Detection of Anti Streptodornase B	SOP LP-MIC-VIR-016 Manual Streptodornase B Inhibition
Blood	Determination of Anti- Streptolysin O (ASOT)	SOP LP-MIC-VIR-001 Latex Agglutination
Nasopharyngeal Aspirate	Detection of RSV Antigen	SOP LP-MIC-VIR-018 ProFlow lateral flow kit
Urine	Detection of:  Legionella pneumophilia serogroup 1 Antigen	Sofia Analyser SOP LP-MIC-VIR-006 Automated Fluorometric EIA
	Streptococcus pneumoniae Antigen	

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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
HUMAN TISSUES AND FLUIDS (cont'd)	Microbiological examinations to assist in clinical investigations (cont'd)	Documented in house methods and manufacturer's instructions for:
	Molecular Section	
	Detection of:	BD Max SOP LP-MIC-VIR-049 Nucleic Acid Amplification
Faeces	Clostridioides (formerly Clostridium) difficile toxin gene	BD max C. difficile toxin gene SOP LP-MIC-BAC-080
Nasal Swabs	MRSA	BD Max SOP LP-MIC-VIR-051
Nasal and/or throat swabs in VTM/UTM and NPAs	Detection of: Sars- Cov- 2 Virus RNA (Covid 19) Target E gene and Orf1ab gene and Respiratory Panel (Influenza A, Influenza A subtype H1N1/2009, Influenza A subtype H3, Influenza B, Coronavirus 229E, Coronavirus HKU1, Coronavirus NL63, Coronavirus OC43, Parainfluenza virus 1, Parainfluenza virus 2, Parainfluenza virus 3, Parainfluenza virus 4, Respiratory Syncytial virus A/B, human Metapneumovirus A/B, Adenovirus, Bocavirus, Rhinovirus/Enterovirus, Mycoplasma pneumoniae, Legionella pertussis)	QIAGEN QIAstat-Dx Analyser using QIAstat-Dx Respiratory 2019-nCoV Panel (PCR) Ip mic vir 057

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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
HUMAN TISSUES AND FLUIDS (cont'd)	Microbiological examinations to assist in clinical investigations (cont'd)	Documented in house methods and manufacturer's instructions for:
	Molecular Section	
		Hologic Panther SARS-CoV-2 TMA Assay testing (RT-PCR):
Nose/throat swabs in VTM/UTM and NPAs	Detection of SARS-CoV- 2 Virus RNA (COVID-19) Target Orf1ab gene	LP-MIC-VIR-058
Genital Tract Specimens and Urine	Chlamydia trachomatis and Neisseria gonorrhoea	LP-MIC-VIR-059
	HSV 1	
	HSV 2	
Genital swabs	Trichomonas vaginalis	
Genital swabs and urine	Mycoplasma genitalium	

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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
HUMAN TISSUES AND FLUIDS (cont'd)	Histological and Cytological examinations to assist in clinical diagnosis	Documented in house methods and manufacturer's instructions for:
Fixed and fresh tissue including biopsies and surgical resection specimens		Specimen Dissection SOP LP-HCU-026 Histology Specimen Cut Up SOP LP-HCU-047 Bowel Cancer Screening Polyps- Cut Up and Reporting SOP LP-HCU-045 Cervical Specimens Cut Up and Reporting SOP LP-HCU-028 Breast Specimens Cut Up and Reporting SOP LP-HCU-048 Specimen Dissection
Fresh tissue		Frozen Sections and H&E staining. SOP LR-HP-6 Frozen Section Procedure SOP LP-HP-055 Histopathology: Embedding, Microtomy, Staining and Coverslipping RC0201 Leica CM1860 Cryostat
Fixed and fresh tissue including biopsies and surgical resection specimens		Tissue Processing SOP LP-HP-056 Histopathology Tissue Processing Leica Peloris II Sakura VIP5 RC0202 Histocore Peloris 3
Formalin- fixed and processed tissue (to paraffin wax) including biopsies and surgical resection specimens		Embedding SOP LP-HP-055 Histopathology: Embedding, Microtomy, Staining and Coverslipping Sakura TEC V Embedder
Formalin- fixed paraffin embedded tissue blocks		Microtomy SOP LP-HP-055 Histopathology: Embedding, Microtomy, Staining and Coverslipping RC0197 & RC0198 Leica Histocore Biocut Microtomes

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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
HUMAN TISSUES AND FLUIDS (cont'd)	Histological and Cytological examinations to assist in clinical diagnosis (cont'd)	Documented in house methods and manufacturer's instructions for:
Formalin- fixed paraffin embedded tissue sections or cytological preparations on microscope slides	For demonstration of general tissue architecture	RC0199 Leica Autostainer XL ST5010 with attached RC0200 Leica CV5030 CoverslipperHaematoxylin and Eosin staining and coverslipping LR-HP-055
Stained formalin- fixed paraffin embedded tissue sections or cytological preparations on microscope slides	Morphological assessment and interpretation/ Diagnosis	Interpretative/ diagnostic Microscopy and Reporting LP-HIS-ADM-039
Formalin- fixed paraffin wax- embedded tissue sections or cytological preparations on	Special Stains  For demonstration of:	SOP LP-HIS-HS-109 Histology Staining Manual Manual Staining
microscope slides	Acid and neutral mucins	Alcian Blue/PAS
	Amyloid	Congo Red
	Elastic fibres	Elastic Van Gieson (EVG)
	Gram positive and negative bacteria	Gram Stain
	Fungi	Methenamine Silver (MST)
	Connective Tissue	Masson Trichrome
	Fibrin	MSB
	Protozoa/ Helicobacter	Giemsa
	Removal of melanin	Melanin Bleach
	Glycogen/Neutral mucin	Period Acid Schiff's (PAS)
	PAS positive substance/ fungi	Diastase (PAS)
	Iron	Perls Prussian Blue
	Reticulin fibres	Reticulin
	Amyloid	Sirius Red

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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
HUMAN TISSUES AND FLUIDS (cont'd)	Histological and Cytological examinations to assist in clinical diagnosis (cont'd)	Documented in house methods and manufacturer's instructions for:
Formalin- fixed paraffin wax-	Special Stains (cont'd)	SOP LP-HIS-HS-109 Histology
embedded tissue sections or cytological preparations on	For demonstration of:	Staining Manual Manual Staining
microscope slides (cont'd)	Hep B, Cu - associated protein	Orcein
	Mycobacterium leprae (leprosy)	Wade- Fite
	Acid alcohol fast bacilli (TB)	Ziehl Neelsen (ZN)
Formalin- fixed paraffin wax- embedded tissue sections or	<u>Immunohistochemistry</u>	Ventana Ultra SOP LP-HIS-HI-011
cytological preparations on	For demonstration of:	Automated immunohistochemistry
microscope slides	Adenocarcinoma (breast/ pancreas/bile duct/salivary gland/transitional cell carcinoma)	34BE12
	Smooth muscle	Actin (SMA)
	Epithelial cells. Pan cytokeratin	AE1/AE3
	Epithelial cells	AMACR
	Lymphocytes. Used in lymphoma	BCL2
	Epithelial cells	BerEP4
	Differentiation of mesothelioma from adenocarcinoma. Demonstration of mesothelial cells	Calretinin
	Cytokeratin 8 and 18	CAM 5.2
	T cells	CD3
	Germinal centres of lymph tissue	CD10
	R-S cells in Hodgkin's lymphoma	CD15
	Activated lymphocytes and plasma cells. R-S cells in Hodgkin's lymphoma	CD30
	Endothelial cells	CD34

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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
HUMAN TISSUES AND FLUIDS (cont'd)	Histological and Cytological examinations to assist in clinical diagnosis (cont'd)	Documented in house methods and manufacturer's instructions for:
Formalin- fixed paraffin wax- embedded tissue sections or cytological preparations on microscope slides (cont'd)	Immunohistochemistry (cont'd)  For demonstration of: (cont'd)	Ventana Ultra SOP LP-HIS-HI-011 Automated immunohistochemistry
	Neural cells adhesion protein in tumours e.g. plasma cell tumours, pancreatic tumour, spindle cell tumours, small cell carcinoma	CD56
	Macrophages	CD68
	Plasma cells	CD138
	Intestinal cells, loss of differentiation in colorectal tumours	CDX2
	Normal colonic cells. Found in adenocarcinoma of lung, colon, stomach, oesophagus, pancreas, gall bladder, salivary gland, ovary and endocervix	CEA
	Endocrine cells. Used in neuroendocrine tumours	Chromogranin A
	Epithelial cells e.g., ducts, glands, transitional epithelium of urinary tract	CK7
	Epithelial cells. Used in differentiation of mesothelioma and adenocarcinoma	CK5/6
	Epithelial cells. Found in adenocarcinoma of stomach, colon, pancreas and some reactivity in mucinous ovarian tumours	CK20
	Normal smooth muscle. Soft tissue tumours	Desmin

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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
HUMAN TISSUES AND FLUIDS (cont'd)	Histological and Cytological examinations to assist in clinical diagnosis (cont'd)	Documented in house methods and manufacturer's instructions for:
Formalin- fixed paraffin wax- embedded tissue sections or cytological preparations on microscope slides (cont'd)	Immunohistochemistry (cont'd)  For demonstration of: (cont'd)	Ventana Ultra SOP LP-HIS-HI-011 Automated immunohistochemistry
	Epithelial cell membrane. Used in differentiation of ductal versus lobular carcinoma of the breast	E-Cadherin
	Epithelial cell membrane. Used to demonstrate normal and neoplastic epithelial cells	ЕМА
	Oestrogen receptor. Used in breast cancer and other tumours	ER
	Trophoblasts of placenta. Used in germ cell tumours	HCG
	Melanoma cells	HMB45
	Peptide hormone used in germ cell tumours	Inhibin
	Proliferating cells. Prognostic marker in tumours	Ki67
	B cell lymphocytes	CD20
	Pan leucocytes	CD45
	Melanoma cells	Melan A
	Neuroendocrine and neuronal cells	NSE
	Trophoblasts of placenta. Used in germ cell tumours	PLAP

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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
HUMAN TISSUES AND FLUIDS (cont'd)	Histological and Cytological examinations to assist in clinical diagnosis (cont'd)	Documented in house methods and manufacturer's instructions for:
Formalin- fixed paraffin wax- embedded tissue sections or cell blocks from cytological preparations on microscope slides (cont'd)	Immunohistochemistry (cont'd) For demonstration of: (cont'd)	Ventana Ultra SOP LP-HIS-HI-011 Automated immunohistochemistry
Silues (cont a)	Prostate epithelial cells	PSA
	Protein found in normal cells e.g. melanocytes, histiocytes and expressed in some tumours e.g. melanoma	S100
	Melanocytes and myoepithelial cells	SOX-10
	Myoepithelial cells. Used in breast to differentiate benign and malignant lesions	Myosin
	Neuroendocrine cells	Synaptophysin
	Follicular epithelial cells of thyroid. Differentiates primary adenocarcinoma from metastatic carcinoma. Used in lung tumours	TTF1
	Follicular epithelial cells of thyroid	Thyroglobulin
	Mesenchymal cells	Vimentin
	Mesenchymal cells	WT1

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HUMAN TISSUES AND FLUIDS (cont'd)	Histological and Cytological examinations to assist in clinical diagnosis (cont'd)	Documented in house methods and manufacturer's instructions for:
	Diagnostic Cytology	
Diagnostic Cytology Samples: E.g. Respiratory, Urine, Serous Fluids, Fine Needle Aspirates (FNA), CSF, Synovial Fluids etc.		SOP LP-HIS-NG-011 Cytological preparation of body fluids including wet films
(1147), GGI, Gyriovidi i idido Gio.		Thermo Shandon Cytospin 4 Thermo Electron IEC CL10 SOP LP-HIS-NG-002 Use and disinfection of Centrifuge and Cytocentrifuge
Cytological preparations on microscope slides	Differentiation of cell types	Manual Papanicolaou Stain and Microscopy SOP LP-HIS-NG-011 Cytological preparation of body fluids including wet films
Synovial Fluid	Identification of crystals:  Monosodium urate  Calcium pyrophosphate	Wet Film and Microscopy SOP LP-HIS-NG-011 Cytological preparation of body fluids including wet films
Stained formalin- fixed paraffin embedded tissue sections or cytological preparations on microscope slides	Home Reporting  Morphological assessment, interpretation/diagnosis and reporting at home working locations	Home Working locations- QI-PPA- 006 Risk assessment- Home Working- MR-HIS-HRA-067 Audit Checklist- Home Working- QT- PQ-065

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HUMAN BODY FLUIDS	Andrological examination activities for the purposes of clinical diagnosis	
Semen	Post vasectomy:	
	Detection of sperm	Based on 2016 Laboratory guidelines for post vasectomy semen analysis: Association of Biomedical Andrologists, the British Andrology Society and the British Association of Urological Surgeons) Manual method using large volume chambers/ manual microscopy and documented in-house procedure SOP LP-HIS-AND-004
Semen	Fertility testing:	Based on WHO laboratory manual for the examination and processing of human semen (Sixth edition 2021) and manual method and documented in-house procedure SOP LP-HIS-AND-003
	Volume	Volume/weight
	рН	Colorimetric strips
	Sperm morphology including TZI scoring	Stained slides (Papanicolau) microscopy (Bright field)
	Sperm concentration	Improved Neubauer counting chambers and Microscopy (Phase contrast)
	Sperm motility	Microscopy (Phase contrast)
	Sperm vitality	Stained slide (Eosin/Nigrosin dye exclusion test) microscopy (Bright field)
END		

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