

Schedule of Accreditation



Organisation Name	University Hospital Waterford
Trading As	
INAB Reg No	170MT
Contact Name	Carmel Cullen
Address	Pathology Department, Dunmore Road, Waterford, X91 ER8E
Contact Phone No	051 -848905
Email	CarmelC.Cullen@hse.ie
Website	
Accreditation Standard	EN ISO 15189
Standard Version	2012
Date of award of accreditation	13/12/2005
Scope Classification	Microbiology and virology
Scope Classification	Blood Transfusion Science
Scope Classification	Haematology
Scope Classification	Histopathology and cytopathology
Scope Classification	Chemical pathology
Services available to the public ¹	

¹ Refer to document on interpreting INAB Scopes of Accreditation

Sites from which accredited services are delivered		
(the detail of the accredited services delivered at each site are on the Scope of Accreditation)		
	Name	Address
1	Head Office	Pathology Department, Dunmore Road, Waterford, X91 ER8E

Scope of Accreditation

Head Office

Blood Transfusion Science

Category: A

Medical pathology field - Test	Test/assay	Specimen Type	Equipment/Technique	Method (CE/Non-CE/In house developed/based on standard method)	Range of measurement	Std. ref & SOP
1020 Transfusion science - .01 Blood grouping including ABO, Rh(D) and other antigens by manual methods	Blood grouping including ABO and Rh(D)	Red cells/plasma	Test tubes, Automated & Manual BioRad gel system	CE	NA	PPC-PATH-BT-003
1020 Transfusion science - .03 Blood group antibody screen	Antibody screening	Plasma	Test tubes, Automated and Manual BioRad gel system	CE	NA	PPC-PATH-BT-004 & WRH-BT-LP-020
1020 Transfusion science - .04 Identification of blood group antibodies	Antibody identification		Automated and Manual BioRad gel system	CE	NA	PPC-PATH-BT-010
1020 Transfusion science - .05 Cross match compatible donor units	Compatibility Testing	Donor Cells and Patient Plasma	Manual BioRad gel system			WRH-BT-LP-050 PPC-PATH-BT-017 Procedure for Electronic Crossmatching in UHW

1020 Transfusion science - .06 Red cell phenotyping	Red cell phenotyping					
		Red Cells	Test tubes, Automated and Manual Biorad gel system	CE	NA	PPC-PATH-BT-007 & PPC-PATH-BT-008
1020 Transfusion science - .08 Antibody titration	Antibody Titration	Plasma	Column Agglutination Technology- Manual Biorad Gel System			PPC-PATH-BT-017 Procedure for Antenatal Antibody Titration
			Column Agglutination Technology- Manual Biorad Gel System	CE	NA	PPC-PATH-BT-017 Procedure for Antenatal Antibody Titration
1020 Transfusion science - .99 Miscellaneous tests	DCT-Direct Coombs testing	Red cells	Automated and Manual Biorad gel system	CE	NA	PPC-PATH-BT-009

The hospital blood bank has been assessed and is competent to comply with Articles 14 and 15 of the EU Directive 2002/98/EC (S.I. 360/2005 and S.I. 547/2006). It also provides services to another site, further details available in the SLA between the accredited medical testing laboratory and the relevant site.

Category: A

Medical pathology field - Test	Test/assay	Specimen Type	Technique	Equipment/Range of Measurement	Method (CE/Non-CE/In house developed/based on standard method)	Std. Ref & SOP
1061 Clinical Chemistry - .01 Analytes in general use in cardiac, liver function, lipid, renal and other profiles and metabolic studies	Alanine Amino Transferase (ALT) **1234	Serum/Plasma	Colorimetric	Roche Cobas 8000	CE marked	WRH-BIO-LP-G003 Management of Cobas 8000
	Alkaline Phosphate (ALP) **1234		Colorimetric	Roche Cobas 8000	CE marked	WRH-BIO-LP-G003 Management of Cobas 8000
	Amylase **1234		Colorimetric	Roche Cobas 8000	CE marked	WRH-BIO-LP-G003 Management of Cobas 8000
	Aspartate Amino Transferase (AST) **1234		Colorimetric	Roche Cobas 8000	CE marked	WRH-BIO-LP-G003 Management of Cobas 8000
	Bicarbonate **1234		Enzymatic	Roche Cobas 8000	CE marked	WRH-BIO-LP-G003 Management of Cobas 8000
	Bilirubin- Direct **1234		Diazo	Roche Cobas 8000	CE marked	WRH-BIO-LP-G003 Management of Cobas 8000
	Bilirubin- Total **1234		Colorimetric	Roche Cobas 8000	CE marked	WRH-BIO-LP-G003 Management of Cobas 8000
	Calcium		2 Point End	Roche Cobas 8000	CE marked	WRH-BIO-LP-G003 Management of Cobas 8000

Chloride **1234		Ion selective electrode	Roche Cobas 8000	CE marked	WRH-BIO-LP-G003 Management of Cobas 8000
Cholesterol **1234		Enzymatic Colorimetric	Roche Cobas 8000	CE marked	WRH-BIO-LP-G003 Management of Cobas 8000
Corrected Calcium **1234		Calculated	Roche Cobas 8000	CE marked	WRH-BIO-LP-G003 Management of Cobas 8000
Creatinine **1234		Jaffe Rate method	Roche Cobas 8000	CE marked	WRH-BIO-LP-G003 Management of Cobas 8000
Creatinine Kinase (CK) **1234		Enzymatic Colorimetric	Roche Cobas 8000	CE marked	WRH-BIO-LP-G003 Management of Cobas 8000
CRP (C Reactive Protein) **1234		Particle Enhanced Immuno Turbidimetric Assay	Roche Cobas 8000	CE marked	WRH-BIO-LP-G003 Management of Cobas 8000
eGFR **1234		Calculated	Roche Cobas 8000	CE marked	WRH-BIO-LP-G003 Management of Cobas 8000
Enzymatic Creatinine		Enzymatic Creatinine	Roche Cobas 8000	CE marked	WRH-BIO-LP-G003 Management of Cobas 8000
Gamma Glutamyl Transferase (GGT) **1234		Enzymatic Colorimetric	Roche Cobas 8000	CE marked	WRH-BIO-LP-G003 Management of Cobas 8000
Glucose **1234		Colorimetric	Roche Cobas 8000	CE marked	WRH-BIO-LP-G003 Management of Cobas 8000
Glycosylated Haemoglobin (HbA1c)	EDTA whole blood	HPLC	Tosoh G11	CE Marked assay	WRH-HAE-LP-206 (Haematology Dept.)
High Density Lipoprotein (HDL)	Serum/Plasma	Homogenous Enzymatic Colorimetric	Roche Cobas 8000	CE marked	WRH-BIO-LP-G003 Management of Cobas 8000
Lactate Dehydrogenase (LDH) **1234	Serum/Fluid/Plasma	Enzymatic Colorimetric	Roche Cobas 8000	CE marked	WRH-BIO-LP-G003 Management of Cobas 8000

	Low Density Lipoprotein (LDL) **1234	Serum/Plasma	Calculated	Roche Cobas 8000	CE marked	WRH-BIO-LP-G003 Management of Cobas 8000
	Magnesium **1234		Colorimetric	Roche Cobas 8000	CE marked	WRH-BIO-LP-G003 Management of Cobas 8000
	Non HDL Cholesterol (NHDLC)**1234		Calculated	Roche Cobas 8000	CE marked	WRH-BIO-LP-G003 Management of Cobas 8000
	NT-Pro-BNP **1234		Electrochemiluminescence Immunoassay	Roche Cobas 8000	CE marked	WRH-BIO-LP-G003 Management of Cobas 8000
	Phosphate-inorganic **1234		Molybdate UV	Roche Cobas 8000	CE marked	WRH-BIO-LP-G003 Management of Cobas 8000
	Potassium **1234		Ion selective electrode	Roche Cobas 8000	CE marked	WRH-BIO-LP-G003 Management of Cobas 8000
	Sodium **1234		Ion selective electrode	Roche Cobas 8000	CE marked	WRH-BIO-LP-G003 Management of Cobas 8000
	Triglycerides **1234		Enzymatic Colorimetric	Roche Cobas 8000	CE marked	WRH-BIO-LP-G003 Management of Cobas 8000
	Troponin **1234		Electrochemiluminescence Immunoassay	Roche Cobas 8000	CE marked	WRH-BIO-LP-G003 Management of Cobas 8000
	Urea **1234		Kinetic	Roche Cobas 8000	CE marked	WRH-BIO-LP-G003 Management of Cobas 8000
	Uric Acid **1234		Enzymatic Colorimetric	Roche Cobas 8000	CE marked	WRH-BIO-LP-G003 Management of Cobas 8000
1061 Clinical Chemistry - .02 Proteins, quantitative analysis	Albumin **1234		Immunoturbidimetric	Roche Cobas 8000	CE marked	WRH-BIO-LP-G003 Management of Cobas 8000
	Protein - Total **1234		Colorimetric	Roche Cobas 8000	CE marked	WRH-BIO-LP-G003 Management of Cobas 8000

1061 Clinical Chemistry - .10 Drugs for therapeutic monitoring	Amikacin **1234		KIMS-Kinetic interaction of microparticles in solution	Roche Cobas 8000	CE marked	WRH-BIO-LP-G003 Management of Cobas 8000
	Carbamazepine		Kinetic Interaction of microparticles in solution	Roche Cobas 8000	CE marked	WRH-BIO-LP-G003 Management of Cobas 8000
	Cyclosporine **1234	Whole Blood	Chemiluminescence microparticles	Architect i 1000 system	CE marked	WRH-LP-301 Management of Automated Immunassay Analysis
	Digoxin **1234	Serum/Plasma	Electrochemiluminescence Immunoassay	Roche Cobas 8000	CE marked	WRH-BIO-LP-G003 Management of Cobas 8000
	Gentamicin **1234		Homogenous Enzyme Immunoassay	Roche Cobas 8000	CE marked	WRH-BIO-LP-G003 Management of Cobas 8000
	Lithium **1234	Serum	Colorimetric	Roche Cobas 8000	CE marked	WRH-BIO-LP-G003 Management of Cobas 8000
	Methotrexate **1234	Serum/Plasma	Homogeneous Enzyme Immunoassay	Roche Cobas 8000	CE Marked	WRH-BIO-LP-G003 Management of Cobas 8000
	Paracetamol **1234		2 Point End	Roche Cobas 8000	CE marked	WRH-BIO-LP-G003 Management of Cobas 8000
	Phenobarbitone **1234		Kinetic Interaction of microparticles in solution	Roche Cobas 8000	CE marked	WRH-BIO-LP-G003 Management of Cobas 8000
	Phenytoin **1234		Particle enhanced turbidimetric Inhibition Immunoassay	Roche Cobas 8000	CE marked	WRH-BIO-LP-G003 Management of Cobas 8000
	Salicylate **1234		Colorimetric	Roche Cobas 8000	CE marked	WRH-BIO-LP-G003 Management of Cobas 8000
Tacrolimus **1234	Whole Blood	Chemiluminescence microparticles	Architect i 1000 system	CE marked	WRH-LP-301 Management of Automated Immunassay Analysis	

	Theophylline **1234	Serum/Plasma	Particle enhance turbidimetric inhibition Immunoassay	Roche Cobas 8000	CE marked	WRH-BIO-LP-G003 Management of Cobas 8000
	Tobramycin **1234		Homogeneous Enzyme Immunoassay	Roche Cobas 8000	CE marked	WRH-BIO-LP-G003 Management of Cobas 8000
	Valproate **1234		Homogeneous Enzyme Immunoassay	Roche Cobas 8000	CE marked	WRH-BIO-LP-G003 Management of Cobas 8000
	Vancomycin		Kinetic Interaction of microparticles in solution	Roche Cobas 8000	CE marked	WRH-BIO-LP-G003 Management of Cobas 8000
1061 Clinical Chemistry - .20 Hormones	Alpha Fetoprotein (AFP) **1234		Electrochemiluminescence Immunoassay	Roche Cobas 8000	CE marked	WRH-BIO-LP-G003 Management of Cobas 8000
	Alpha Fetoprotein (AFP)**1234		Electrochemiluminescence Immunoassay	Roche Cobas 8000	CE marked	WRH-BIO-LP-G003 Management of Cobas 8000
	Cortisol **1234		Electrochemiluminescence Immunoassay	Roche Cobas 8000	CE marked	WRH-BIO-LP-G003 Management of Cobas 8000
	Follicle Stimulating Hormone (FSH) **1234		Electrochemiluminescence Immunoassay	Roche Cobas 8000	CE marked	WRH-BIO-LP-G003 Management of Cobas 8000
	Follicle Stimulating Hormone (FSH)**1234		Electrochemiluminescence Immunoassay	Roche Cobas 8000	CE Marked	WRH-BIO-LP-G003 Management of Cobas 8000
	FT4**1234		Electrochemiluminescence Immunoassay	Roche Cobas 801	CE marked	WRH-BIO-LP-G003 Management of Cobas 8000
	HCG-Beta **1234		Electrochemiluminescence Immunoassay	Roche Cobas 8000	CE marked	WRH-BIO-LP-G003 Management of Cobas 8000
	LH **1234		Electrochemiluminescence Immunoassay	Roche Cobas 8000	CE marked	WRH-BIO-LP-G003 Management of Cobas 8000
	Macroprolactin **1234		PEG precipitate	Roche Cobas 8000	CE marked	WRH-BIO-LP-G003 Management of Cobas 8000

Oestradiol **1234	Electrochemiluminescence Immunoassay	Roche Cobas 8000	CE marked	WRH-BIO-LP-G003 Management of Cobas 8000
Progesterone **1234	Electrochemiluminescence Immunoassay	Roche Cobas 8000	CE marked	WRH-BIO-LP-G003 Management of Cobas 8000
Prolactin **1234	Electrochemiluminescence Immunoassay	Roche Cobas 8000	CE marked	WRH-BIO-LP-G003 Management of Cobas 8000
PSA**1234	Electrochemiluminescence Immunoassay	Roche Cobas 8000	CE marked	WRH-BIO-LP-G003 Management of Cobas 8000
PTH **1234	Electrochemiluminescence Immunoassay	Roche Cobas 8000	CE marked	WRH-BIO-LP-G003 Management of Cobas 8000
T3 - Free **1234	Electrochemiluminescence Immunoassay	Roche Cobas 8000	CE marked	WRH-BIO-LP-G003 Management of Cobas 8000
T3-Free (FT3)**1234	Electrochemiluminescence Immunoassay	Roche Cobas 8000	CE marked	WRH-BIO-LP-G003 Management of Cobas 8000
T4-Free (FT4) **1234	Electrochemiluminescence Immunoassay	Roche Cobas 8000	CE marked	WRH-BIO-LP-G003 Management of Cobas 8000
T4-Free (FT4)**1234	Electrochemiluminescence Immunoassay	Roche Cobas 8000	CE marked	WRH-BIO-LP-G003 Management of Cobas 8000
Testosterone **1234	Electrochemiluminescence Immunoassay	Roche Cobas 8000	CE marked	WRH-BIO-LP-G003 Management of Cobas 8000
Testosterone**1234	Electrochemiluminescence Immunoassay	Roche Cobas 8000	CE marked	WRH-BIO-LP-G003 Management of Cobas 8000
Thyroid Stimulating Hormone (TSH)**1234	Electrochemiluminescence Immunoassay	Roche Cobas 8000	CE marked	WRH-BIO-LP-G003 Management of Cobas 8000

1061 Clinical Chemistry - .30 Sweat electrolytes	Sweat Test **1234	Sweat	Chloride metre	Wescor Sweat Check 3120 Sweat Conductivity	CE marked	WRH-BIO-LP-M007- Sweat Testing
1061 Clinical Chemistry - .40 Iron studies	**1234 Saturation	Serum/Plasma	Calculated	Roche Cobas 8000	CE marked	WRH-BIO-LP-G003 Management of Cobas 8000
	Ferritin		Electrochemiluminescence Immunoassay	Roche Cobas 801	CE marked	WRH-BIO-LP-G003 Management of Cobas 8000
	Ferritin**1234		Electrochemiluminescence Immunoassay	Roche Cobas 8000	CE marked	WRH-BIO-LP-G003 Management of Cobas 8000
	Iron **1234		Colorimetric	Roche Cobas 8000	CE marked	WRH-BIO-LP-G003 Management of Cobas 8000
	Transferrin **1234		Immunoturbidimetric	Roche Cobas 8000	CE marked	WRH-BIO-LP-G003 Management of Cobas 8000
1061 Clinical Chemistry - .45 Vitamin B12 and folate	B12**1234		Electrochemiluminescence Immunoassay	Roche Cobas 8000	CE marked	WRH-BIO-LP-G003 Management of Cobas 8000
			Electrochemiluminescence Immunoassay	Roche Cobas 801	CE marked	WRH-BIO-LP-G003 Management of Cobas 8000
	FOL**1234		Electrochemiluminescence Immunoassay	Roche Cobas 801	CE marked	WRH-BIO-LP-G003 Management of Cobas 8000
	Folate**1234		Electrochemiluminescence Immunoassay	Roche Cobas 8000	CE marked	WRH-BIO-LP-G003 Management of Cobas 8000
1061 Clinical Chemistry - .47 Vitamin assays	25 OH Vitamin D **1234		Electrochemiluminescence Immunoassay	Roche Cobas 8000	CE marked	WRH-BIO-LP-G003 Management of Cobas 8000
1061 Clinical Chemistry - .50 Protein and peptide tumour markers	CA 125 **1234		Electrochemiluminescence Immunoassay	Roche Cobas 8000	CE marked	WRH-BIO-LP-G003 Management of Cobas 8000
	CA 153 **1234		Electrochemiluminescence Immunoassay	Roche Cobas 8000	CE marked	WRH-BIO-LP-G003 Management of Cobas 8000

	CA199 **1234		Electrochemiluminescence Immunoassay	Roche Cobas 8000	CE marked	WRH-BIO-LP-G003 Management of Cobas 8000
	CEA **1234		Electrochemiluminescence Immunoassay	Roche Cobas 8000	CE marked	WRH-BIO-LP-G003 Management of Cobas 8000
	PSA - Total **1234		Electrochemiluminescence Immunoassay	Roche Cobas 8000	CE marked	WRH-BIO-LP-G003 Management of Cobas 8000
1061 Clinical Chemistry - .80 Quantitative investigation of immunoglobulins G, A, M and in body fluids	Immunoglobulin IgA **1234		Immunoturbidimetric	Roche Cobas 8000	CE marked	WRH-BIO-LP-G003 Management of Cobas 8000
	Immunoglobulin IgG **1234		Immunoturbidimetric	Roche Cobas 8000	CE marked	WRH-BIO-LP-G003 Management of Cobas 8000
	Immunoglobulin IgM **1234		Immunoturbidimetric	Roche Cobas 8000	CE marked	WRH-BIO-LP-G003 Management of Cobas 8000
1061 Clinical Chemistry - .81 Qualitative investigation of immunoglobulins G, A, M and in body fluids	Electrophoresis **1234	Serum/Urine	Capillary/Urine:Agarose Gel	Sebia Minicap Sebia Hydrasys 2	CE marked	WRH-BIO-LP-P008 Serum Protein Electrophoresis on the Minicap WRH-BIO-LP-P009 Urine Electrophoresis
	Immunofixation **1234		Agarose Gel/Immunofixation	Sebia Hydrasys 2	CE marked	WRH-BIO-LP-P003 Protein Immunofixation
1061 Clinical Chemistry - .82 Total IgE	Total Immunoglobulin IgE (Allergy Screen) **1234	Serum/Plasma	Electrochemiluminescence Immunoassay	Roche Cobas 8000	CE marked	WRH-BIO-LP-G003 Management of Cobas 8000
1061 Clinical Chemistry - .83 Rheumatoid factor – quantitative assays	Rheumatoid Factor **1234		Immunoturbidimetric	Roche Cobas 8000	CE marked	WRH-BIO-LP-G003 Management of Cobas 8000
1061 Clinical Chemistry - .85 Anti-thyroglobulin antibodies	Anti Thyroid Peroxidase Antibody **1234		Electrochemiluminescence Immunoassay	Roche Cobas 8000	CE marked	WRH-BIO-LP-G003 Management of Cobas 8000

1061 Clinical Chemistry - .86 C3 and C4	C3 **1234		Immunoturbidimetric	Roche Cobas 8000	CE marked	WRH-BIO-LP-G003 Management of Cobas 8000
	C4 **1234		Immunoturbidimetric	Roche Cobas 8000	CE marked	WRH-BIO-LP-G003 Management of Cobas 8000
1061 Clinical Chemistry - .88 b2-microglobulin	Beta-2-Microglobulin (B2M)		Immunoturbidimetric	Roche Cobas 8000	CE marked	WRH-BIO-LP-G003 Management of Cobas 8000
1061 Clinical Chemistry - .99 Miscellaneous tests	Alpha 1 Antitrypsin **1234		Immunoturbidimetric	Roche Cobas 8000	CE marked	WRH-BIO-LP-G003 Management of Cobas 8000
	Haptoglobin **1234		Turbidimetric	Roche Cobas 8000	CE marked	WRH-BIO-LP-G003 Management of Cobas 8000
	Osmolality **1234		Freezing point depression	Roche Cobas 8000	CE marked	WRH-BIO-LP-M004 Osmolality

The laboratory has been awarded flexible scope in the scope classifications as noted in the scope document and in accordance with the laboratory's approved and documented procedures.

Note 1 - Range may be extended for the test

Note 2 – New parameters/tests may be added

Note 3 – New matrices may be added

Note 4 – Changes to equipment/kits where the underlying methodology does not change

For further details please refer to the laboratory's 'List of flexible scope changes', available directly from the laboratory.

Category: A

Medical pathology field - Test	Test/Assay	Specimen Type	Technique	Range of Measurement/Equipment	Method (CE/Non-CE/In house developed/based on standard method)	Std. Ref & SOP
1030 Haematology - .01 Blood counts	Haematocrit **1234	Blood	Cumulative pulse measurement	Sysmex XN10/XN20	CE	WRH-HAE-LP-101 WRH-HAE-LP-102
	Haemoglobin **1234		Sodium lauryl sulphate (SLS) Haemoglobin	Sysmex XN10/XN20	CE	WRH-HAE-LP-101 WRH-HAE-LP-102
	MCH **1234		Calculated	Sysmex XN10/XN20	CE	WRH-HAE-LP-101 WRH-HAE-LP-102
	MCHC **1234		Calculated	Sysmex XN10/XN20	CE	WRH-HAE-LP-101 WRH-HAE-LP-102
	Mean Cell Volume **1234		Calculated	Sysmex XN10/XN20	CE	WRH-HAE-LP-101 WRH-HAE-LP-102
	Platelet Count **1234		Hydrodynamic focussing Direct current (DC) detection	Sysmex XN10/XN20	CE	WRH-HAE-LP-101 WRH-HAE-LP-102
	Red Cell Count **1234		Hydrodynamic focussing Direct current (DC) detection	Sysmex XN10/XN20	CE	WRH-HAE-LP-101 WRH-HAE-LP-102
	White Cell Count **1234		Fluorescence flow cytometry	Sysmex XN10/XN20	CE	WRH-HAE-LP-101 WRH-HAE-LP-102
1030 Haematology - .02 Visual examination of blood films	Basophils	Staining/microscopy	Manual	CE	WRH-HAE-LP-403	
	Eosinophils	Staining/microscopy	Manual	CE	WRH-HAE-LP-403	
	Lymphocytes **1234	Staining/microscopy	Manual	CE	WRH-HAE-LP-403	
	Monocytes	Staining/microscopy	Manual	CE	WRH-HAE-LP-403	
	Neutrophils **1234	Staining/microscopy	Manual	CE	WRH-HAE-LP-403	

	Red Cell Morphology
1030 Haematology - .03 Erythrocyte sedimentation rate	ESR
1030 Haematology - .06 Automated reticulocyte counts	Automated Reticulocyte Count **1234
1030 Haematology - .09 Examination of malarial parasites	Binax NOW screening **1234
	Care Start **1234
	Malaria blood film examination
1030 Haematology - .30 Tests for haemoglobin variants and thalassaemia	Solubility screening test for HbS **1234
1030 Haematology - .31 Tests for foetal Hb (Kleihauer)	Kleihauer- Screening test for foetal Hb **1234
1030 Haematology - .41 General haemostasis related tests	Activated Partial Thromboplastin Time (APTT) **1234
	Activated Protein C Ratio (APCR)
	Anti Thrombin
	D-dimer **1234
	Factor 8
	Factor 9
	Fibrinogen **1234

Staining/microscopy	Manual	CE	WRH-HAE-LP-403
Sedimentation- fully automated Westergren method	Starrsed Interrliner and Starrsed ST(Inversa)	CE	WRH-HAE-LP-202
Fluorescence flow cytometry	Sysmex XN10/XN20	CE	WRH-HAE-LP-101 WRH-HAE-LP-102
Immunochromatographic test	Manual	CE	PPC-PATH-HAE-6
Immunochromatographic test	Manual	CE	PPC-PATH-HAE-6
Staining/microscopy	Manual	CE	WRH-LHAE-LP-404
Solubility screening test for HbS	Manual	CE	WRH-PATH-LP-204
Acid Elution	Manual	CE	WRH-HAE-LP-203
Clotting	Sysmex CS-5100 Sysmex CS-2500	CE	WRH-HAE-LP-001 WRH-HAE-LP-002
Coagulation	Sysmex CS-5100	CE	WRH-HAE-LP-001 WRH-HAE-LP-002
Chromogenic	Sysmex CS-5100	CE	WRH-HAE-LP-001 WRH-HAE-LP-002
Immunoassay	Sysmex CS-5100 Sysmex CS-2500	CE	WRH-HAE-LP-001 WRH-HAE-LP-002
Coagulation	Sysmex CS-5100	CE	WRH-HAE-LP-001 WRH-HAE-LP-002
Coagulation	Sysmex CS-5100	CE	WRH-HAE-LP-001 WRH-HAE-LP-002
Clotting	Sysmex CS-5100 Sysmex CS-2500	CE	WRH-HAE-LP-001 WRH-HAE-LP-002

	Free Protein S	Immunoassay	Sysmex CS-5100	CE	WRH-HAE-LP-001 WRH-HAE-LP-002
	International Normalised Ratio (INR) **1234	Clotting	Sysmex CS-5100 Sysmex CS-2500	CE	WRH-HAE-LP-001 WRH-HAE-LP-002
	Protein C	Chromogenic	Sysmex CS-5100	CE	WRH-HAE-LP-001 WRH-HAE-LP-002
	Prothrombin Time (PT) **1234	Clotting	Sysmex CS-5100 Sysmex CS-2500	CE	WRH-HAE-LP-001 WRH-HAE-LP-002
1030 Haematology - .57 Screening test for infectious mononucleosis	Clearview IM Screening Test for Infectious Mononucleosis **1234	Immunoassay	Manual	CE	WRH-HAE-LP-205
1030 Haematology - .99 Miscellaneous tests	Automated Basophil Count **1234	Fluorescence flow cytometry	Sysmex XN10/XN20	CE	WRH-HAE-LP-101 WRH-HAE-LP-102
	Automated Eosinophil Count **1234	Fluorescence flow cytometry	Sysmex XN10/XN20	CE	WRH-HAE-LP-101 WRH-HAE-LP-102
	Automated Lymphocyte Count **1234	Fluorescence flow cytometry	Sysmex XN10/XN20	CE	WRH-HAE-LP-101 WRH-HAE-LP-102
	Automated Monocyte Count **1234	Fluorescence flow cytometry	Sysmex XN10/XN20	CE	WRH-HAE-LP-101 WRH-HAE-LP-102
	Automated Neutrophil Count **1234	Fluorescence flow cytometry	Sysmex XN10/XN20	CE	WRH-HAE-LP-101 WRH-HAE-LP-102
	HbA1c **1234	HPLC	Tosoh G11	CE	WRH-HAE-LP-206
		HPLC	Tosoh G11	CE	WRH-HAE-LP-206

The laboratory has been awarded flexible scope in the scope classifications as noted in the scope document and in accordance with the laboratory's approved and documented procedures.

Note 1 - Range may be extended for the test

Note 2 – New parameters/tests may be added

Note 3 – New matrices may be added

Note 4 – Changes to equipment/kits where the underlying methodology does not change

For further details please refer to the laboratory's 'List of flexible scope changes', available directly from the laboratory.

Histopathology and Cytopathology

Category: A

Medical pathology field - Test	Test/assay	Specimen Type	Equipment/Technique	Method (CE/Non-CE/In house developed/based on standard method)	Range of measurement	Std. ref & SOP
1051 Histopathology - .01 Processing fixed specimens for Histopathological testing	Automated and Manual Haematoxylin & Eosin Staining / Coverslipping	Tissue section on glass slide	Automated application of reagents and coverslip	Based on standard method	Qualitative test	WRH-HIS-LP-005
	Cut-up	Tissue Specimens for Examination	Case labelling, organisation, direct specimen transfer.	Based on standard method	Qualitative test	WRH-HIS-LP-001, 002, 017
	Embedding	Processed Tissue Sample	Manual tissue orientation in wax	Based on standard method	Qualitative test	WRH-HIS-LP-003
	Microtomy	Paraffin Embedded Tissue Sample	Cutting and selection of representative tissue sections	Based on standard method	Qualitative test	WRH-HIS-LP-004
	Tissue Processing	Tissue Sample	Vacuum impregnation	Based on standard method	Qualitative test	WRH-HIS-LP-007
1051 Histopathology - .02 Processing fresh specimens for frozen section examination	Immediate Frozen section diagnosis	Frozen Tissue Sample	Gross Descriptions, Cryostat Microtomy, Slide Staining, Microscopic Examination	Based on standard method	Qualitative test	WRH-HIS-LP-300
1051 Histopathology - .03 Histochemistry	Alcian Blue	Tissue Section on glass slide	Application of Reagents	Based on standard method	Qualitative test	WRH-HIS-LP-006
	Alcian Blue/PAS		Application of Reagents	Based on standard method	Qualitative test	WRH-HIS-LP-006
	Gordon and Sweets Silver Impregnation		Application of Reagents	Based on standard method	Qualitative test	WRH-HIS-LP-006
	Gram Stain		Application of Reagents	Based on standard method	Qualitative test	WRH-HIS-LP-006

	Grocott's Methenamine Silver		Application of Reagents	Based on standard method	Qualitative test	WRH-HIS-LP-006
	Highman's Congo Red		Application of Reagents	Based on standard method	Qualitative test	WRH-HIS-LP-006
	Martius Scarlet Blue (MSB)		Application of Reagents	Based on standard method	Qualitative test	WRH-HIS-LP-006
	Masson's Trichrome		Application of Reagents	Based on standard method	Qualitative test	WRH-HIS-LP-006
	Miller's Elastin		Application of Reagents	Based on standard method	Qualitative test	WRH-HIS-LP-006
	PAS		Application of Reagents	Based on standard method	Qualitative test	WRH-HIS-LP-006
	PAS-D		Application of Reagents	Based on standard method	Qualitative test	WRH-HIS-LP-006
	PAS-F		Application of Reagents	Based on standard method	Qualitative test	WRH-HIS-LP-006
	Perl's Prussian		Application of Reagents	Based on standard method	Qualitative test	WRH-HIS-LP-006
	Shikata Orcein		Application of Reagents	Based on standard method	Qualitative test	WRH-HIS-LP-006
	Ziehl Nielsen		Application of Reagents	Based on standard method	Qualitative test	WRH-HIS-LP-006
1051 Histopathology - .035 Histological Interpretation	Histological Interpretation	Human Tissue	Gross Descriptions, Dissections & Block Selection	Based on standard method	Qualitative test	PPC-PATH-HIS-20, 31, 32, 36,37
			Microscopic Examinations	Based on standard method	Qualitative test	PPC-PATH-HIS-19
1051 Histopathology - .09 Immunohistochemistry	Alk Prot (CD246)	Tissue Section on glass slide	Ag/Ab reaction - Ventana Ultra	CE	Qualitative test	PPC-PATH-HIST-19
	Bcl-2		Ag/Ab reaction - Ventana Ultra	CE	Qualitative test	PPC-PATH-HIST-19
	Bcl-6		Ag/Ab reaction - Ventana Ultra	CE	Qualitative test	PPC-PATH-HIST-19
	BerEp4		Ag/Ab reaction - Ventana Ultra	CE	Qualitative test	PPC-PATH-HIST-19
	BOB-1		Ag/Ab reaction - Ventana Ultra	CE	Qualitative test	PPC-PATH-HIST-19

Ca125	Ag/Ab reaction - Ventana Ultra	CE	Qualitative test	PPC-PATH-HIST-19
Calponin	Ag/Ab reaction - Ventana Ultra	CE	Qualitative test	PPC-PATH-HIST-19
Calretinin	Ag/Ab reaction - Ventana Ultra	CE	Qualitative test	PPC-PATH-HIST-19
CAM 5.2	Ag/Ab reaction - Ventana Ultra	CE	Qualitative test	PPC-PATH-HIST-19
CD10	Ag/Ab reaction - Ventana Ultra	CE	Qualitative test	PPC-PATH-HIST-19
CD117	Ag/Ab reaction - Ventana Ultra	CE	Qualitative test	PPC-PATH-HIST-19
CD138	Ag/Ab reaction - Ventana Ultra	CE	Qualitative test	PPC-PATH-HIST-19
CD15	Ag/Ab reaction - Ventana Ultra	CE	Qualitative test	PPC-PATH-HIST-19
CD1A	Ag/Ab reaction - Ventana Ultra	CE	Qualitative test	PPC-PATH-HIST-19
CD2	Ag/Ab reaction- Ventana Ultra	CE	Qualitative test	PPC-PATH-HIST-19
CD20	Ag/Ab reaction - Ventana Ultra	CE	Qualitative test	PPC-PATH-HIST-19
CD21	Ag/Ab reaction - Ventana Ultra	CE	Qualitative test	PPC-PATH-HIST-19
CD23	Ag/Ab reaction - Ventana Ultra	CE	Qualitative test	PPC-PATH-HIST-19
CD3	Ag/Ab reaction - Ventana Ultra	CE	Qualitative test	PPC-PATH-HIST-19
CD30	Ag/Ab reaction - Ventana Ultra	CE	Qualitative test	PPC-PATH-HIST-19
CD31	Ag/Ab reaction - Ventana Ultra	CE	Qualitative test	PPC-PATH-HIST-19
CD34	Ag/Ab reaction - Ventana Ultra	CE	Qualitative test	PPC-PATH-HIST-19
CD4	Ag/Ab reaction - Ventana Ultra	CE	Qualitative test	PPC-PATH-HIST-19

CD4/CD8 Double Stain	Ag/Ab reaction- Ventana Ultra	CE	Qualitative test	PPC-PATH-HIST-19
CD5	Ag/Ab reaction - Ventana Ultra	CE	Qualitative test	PPC-PATH-HIST-19
CD56	Ag/Ab reaction - Ventana Ultra	CE	Qualitative test	PPC-PATH-HIST-19
CD68	Ag/Ab reaction - Ventana Ultra	CE	Qualitative test	PPC-PATH-HIST-19
CD79A	Ag/Ab reaction - Ventana Ultra	CE	Qualitative test	PPC-PATH-HIST-19
CD8	Ag/Ab reaction - Ventana Ultra	CE	Qualitative test	PPC-PATH-HIST-19
CDX-2	Ag/Ab reaction - Ventana Ultra	CE	Qualitative test	PPC-PATH-HIST-19
CEA	Ag/Ab reaction - Ventana Ultra	CE	Qualitative test	PPC-PATH-HIST-19
Chromogranin A	Ag/Ab reaction - Ventana Ultra	CE	Qualitative test	PPC-PATH-HIST-19
CK14	Ag/Ab reaction - Ventana Ultra	CE	Qualitative test	PPC-PATH-HIST-19
CK17	Ag/Ab reaction - Ventana Ultra	CE	Qualitative test	PPC-PATH-HIST-19
CK19	Ag/Ab reaction - Ventana Ultra	CE	Qualitative test	PPC-PATH-HIST-19
CK20	Ag/Ab reaction - Ventana Ultra	CE	Qualitative test	PPC-PATH-HIST-19
CK5/6	Ag/Ab reaction - Ventana Ultra	CE	Qualitative test	PPC-PATH-HIST-19
CK7	Ag/Ab reaction - Ventana Ultra	CE	Qualitative test	PPC-PATH-HIST-19
CKAE1/3	Ag/Ab reaction - Ventana Ultra	CE	Qualitative test	PPC-PATH-HIST-19
CKHMW	Ag/Ab reaction - Ventana Ultra	CE	Qualitative test	PPC-PATH-HIST-19
C-MYC	Ag/Ab reaction- Ventana Ultra	CE	Qualitative test	PPC-PATH-HIST-19

Cyclin D1	Ag/Ab reaction - Ventana Ultra	CE	Qualitative test	PPC-PATH-HIST-19
D2-40	Ag/Ab reaction - Ventana Ultra	CE	Qualitative test	PPC-PATH-HIST-19
Desmin	Ag/Ab reaction - Ventana Ultra	CE	Qualitative test	PPC-PATH-HIST-19
DOG-1	Ag/Ab reaction - Ventana Ultra	CE	Qualitative test	PPC-PATH-HIST-19
EBER	ISH Reaction - Ventana Ultra	CE	Qualitative test	PPC-PATH-HIST-19
E-Cadherin	Ag/Ab reaction - Ventana Ultra	CE	Qualitative test	PPC-PATH-HIST-19
EMA	Ag/Ab reaction - Ventana Ultra	CE	Qualitative test	PPC-PATH-HIST-19
ER	Ag/Ab reaction - Ventana Ultra	CE	Qualitative test	PPC-PATH-HIST-19
Factor 13	Ag/Ab reaction - Ventana Ultra	CE	Qualitative test	PPC-PATH-HIST-19
Factor 8	Ag/Ab reaction - Ventana Ultra	CE	Qualitative test	PPC-PATH-HIST-19
Gastrin	Ag/Ab reaction - Ventana Ultra	CE	Qualitative test	PPC-PATH-HIST-19
GATA 3	Ag/Ab reaction - Ventana Ultra	CE	Qualitative test	PPC-PATH-HIST-19
Glyco-A	Ag/Ab reaction - Ventana Ultra	CE	Qualitative test	PPC-PATH-HIST-19
H pylori	Ag/Ab reaction - Ventana Ultra	CE	Qualitative test	PPC-PATH-HIST-19
Hepatocyte	Ag/Ab reaction - Ventana Ultra	CE	Qualitative test	PPC-PATH-HIST-19
Her-2	Ag/Ab reaction - Ventana Ultra	CE	Qualitative test	PPC-PATH-HIST-19
HMB-45	Ag/Ab reaction - Ventana Ultra	CE	Qualitative test	PPC-PATH-HIST-19
Inhibin	Ag/Ab reaction - Ventana Ultra	CE	Qualitative test	PPC-PATH-HIST-19

Kappa	ISH Reaction - Ventana Ultra	CE	Qualitative test	PPC-PATH-HIST-19
Ki-67	Ag/Ab reaction - Ventana Ultra	CE	Qualitative test	PPC-PATH-HIST-19
Ki-67/MELA Double Stain	Ag/Ab reaction - Ventana Ultra	CE	Qualitative test	PPC-PATH-HIST-19
Lambda	ISH Reaction - Ventana Ultra	CE	Qualitative test	PPC-PATH-HIST-19
LCA	Ag/Ab reaction - Ventana Ultra	CE	Qualitative test	PPC-PATH-HIST-19
Mammaglobin	Ag/Ab reaction - Ventana Ultra	CE	Qualitative test	PPC-PATH-HIST-19
Mel-A	Ag/Ab reaction - Ventana Ultra	CE	Qualitative test	PPC-PATH-HIST-19
Melanoma Triple Cocktail	Ag/Ab reaction - Ventana Ultra	CE	Qualitative test	PPC-PATH-HIST-19
MNF116	Ag/Ab reaction - Ventana Ultra	CE	Qualitative test	PPC-PATH-HIST-19
MPO	Ag/Ab reaction - Ventana Ultra	CE	Qualitative test	PPC-PATH-HIST-19
MSI Markers (MSH2, MSH6, PMS2, MLH1)	Ag/Ab reaction - Ventana Ultra	CE	Qualitative test	PPC-PATH-HIST-19
MUM-1	Ag/Ab reaction - Ventana Ultra	CE	Qualitative test	PPC-PATH-HIST-19
Napsin A	Ag/Ab reaction - Ventana Ultra	CE	Qualitative test	PPC-PATH-HIST-19
NSE	Ag/Ab reaction - Ventana Ultra	CE	Qualitative test	PPC-PATH-HIST-19
OCT4	Ag/Ab reaction - Ventana Ultra	CE	Qualitative test	PPC-PATH-HIST-19
P16	Ag/Ab reaction - Ventana Ultra	CE	Qualitative test	PPC-PATH-HIST-19
P40	Ag/Ab reaction - Ventana Ultra	CE	Qualitative test	PPC-PATH-HIST-19
P504s (AMACR)	Ag/Ab reaction - Ventana Ultra	CE	Qualitative test	PPC-PATH-HIST-19

P53	Ag/Ab reaction - Ventana Ultra	CE	Qualitative test	PPC-PATH-HIST-19
P57	Ag/Ab reaction - Ventana Ultra	CE	Qualitative test	PPC-PATH-HIST-19
P63	Ag/Ab reaction - Ventana Ultra	CE	Qualitative test	PPC-PATH-HIST-19
Pax-5	Ag/Ab reaction - Ventana Ultra	CE	Qualitative test	PPC-PATH-HIST-19
Pax-8	Ag/Ab reaction - Ventana Ultra	CE	Qualitative test	PPC-PATH-HIST-19
PDL-1	Ag/Ab reaction - Ventana Ultra	CE	Qualitative test	PPC-PATH-HIST-19
PLAP	Ag/Ab reaction - Ventana Ultra	CE	Qualitative test	PPC-PATH-HIST-19
Plasma Cells	Ag/Ab reaction - Ventana Ultra	CE	Qualitative test	PPC-PATH-HIST-19
PR	Ag/Ab reaction - Ventana Ultra	CE	Qualitative test	PPC-PATH-HIST-19
PRAME	Ag/Ab reaction- Ventana Ultra	CE	Qualitative test	PPC-PATH-HIST-19
Prostate Cocktail - 34BE & P63 Double Stain	Ag/Ab reaction- Ventana Ultra	CE	Qualitative test	PPC-PATH-HIST-19
PSA	Ag/Ab reaction - Ventana Ultra	CE	Qualitative test	PPC-PATH-HIST-19
PSAP	Ag/Ab reaction - Ventana Ultra	CE	Qualitative test	PPC-PATH-HIST-19
S100	Ag/Ab reaction - Ventana Ultra	CE	Qualitative test	PPC-PATH-HIST-19
SMA	Ag/Ab reaction - Ventana Ultra	CE	Qualitative test	PPC-PATH-HIST-19
Sox 10	Ag/Ab reaction - Ventana Ultra	CE	Qualitative test	PPC-PATH-HIST-19
Sox 10 Red	Ag/Ab reaction- Ventana Ultra	CE	Qualitative test	PPC-PATH-HIST-19
Synaptophysin	Ag/Ab reaction - Ventana Ultra	CE	Qualitative test	PPC-PATH-HIST-19

	TdT		Ag/Ab reaction - Ventana Ultra	CE	Qualitative test	PPC-PATH-HIST-19
	Thyroglobulin		Ag/Ab reaction - Ventana Ultra	CE	Qualitative test	PPC-PATH-HIST-19
	TRAcP		Ag/Ab reaction- Ventana Ultra	CE	Qualitative test	PPC-PATH-HIST-19
	TTF-1		Ag/Ab reaction - Ventana Ultra	CE	Qualitative test	PPC-PATH-HIST-19
	TTF-1/P40 Double Stain		Ag/Ab reaction - Ventana Ultra	CE	Qualitative test	PPC-PATH-HIST-19
	Vimentin		Ag/Ab reaction - Ventana Ultra	CE	Qualitative test	PPC-PATH-HIST-19
	WT-1		Ag/Ab reaction - Ventana Ultra	CE	Qualitative test	PPC-PATH-HIST-19
1051 Histopathology - .14 Detection of immune complexes in body fluids and biopsy material	Skin Biopsy Direct Immunofluorescence	Fresh Tissue Sample	Cryostat Microtomy, Manual Application of Reagents	Based on standard method	Qualitative Test	WRH-HIS-LP-406

Medical pathology field - Test	Test/assay	Specimen Type	Equipment/Technique	Method (CE/Non-CE/In house developed/based on standard method)	Range of measurement	Std. ref & SOP
1011 Macroscopic examination and description	Investigation of specimens for Mycobacterium species	Sputum, bronchoalveolar lavage, bronchial aspirate, bronchial washings, early morning urine, CSF, blood, bone marrow, pleural/pericardial fluid, pus, tissue, gastric lavage, CAPD fluid, swabs	Manual	UK standards for Microbiology SMI B40	N/A	TM-A-MT002
	Investigation of specimens of Sputum, bronchoalveolar lavage and associated specimens **1234	Sputum, bronchoalveolar lavage, bronchial aspirate, bronchial washings, cough swab, nasopharyngeal swab/aspirate, pleural fluid	Manual	UK standards for Microbiology SMI B57	N/A	TM-A-MT001
	Investigation of specimens other than blood for parasites **1234	Faeces, duodenal/jejunal aspirates, sellotape slide, urine, liver/spleen aspirates, sputum, bronchoalveolar lavage	Manual	UK standards for Microbiology SMI B31	N/A	TM-A-MF002
1012 Preparation of films on glass slides followed by microscopic examination with or	Investigation of abscesses, post-operative wounds and deep seated	Deep seated wound swabs, pus, abscess swab, bile, drain fluids	Microscopy	UK standards for Microbiology SMI B14, B15	N/A	TM-A-MW003

without fixation and staining with dyes as required - .01 Microscopic examination for general bacteriology purposes (including enumeration and description of human cells)	wound infections **1234					
	Investigation of Blood Cultures **1234	Blood	Microscopy	CE/UK standards for Microbiology SMI B37	N/A	TM-A-MB-001
	Investigation of CSF **1234	CSF	Microscopy	UK standards for Microbiology SMI B27	N/A	TM-A-MB002
	Investigation of ear, nose, throat and related specimens **1234	Throat, nasal swab, ear swab, mouth/tongue swab, antrum washout, middle ear effusion, endotracheal tube	Microscopy	UK standards for Microbiology SMI B9,B5,B1,B4,B6	N/A	TM-A-MW001
	Investigation of eye swabs, contact lens and fluid, intraocular fluids and corneal scrapings **1234	Eye swab, conjunctival swab, corneal ulcer swab, orbital cellulitis swab, eyelid swab, lacrimal swab/stone, contact lens fluid, corneal scrapings, intraocular fluid, aqueous humour, vitreous humour, canalicular pus	Microscopy	UK standards for Microbiology SMI B2, B31, B52	N/A	TM-A-MW004
	Investigation of faeces specimens for bacterial pathogens **1234	Faeces, rectal swab	Microscopy	UK standards for Microbiology SMI B30	N/A	TM-A-MF001
	Investigation of fluids from normally sterile sites **1234	Joint fluid, amniotic fluid, ascitic fluid, bursa fluid, pericardial fluid, peritoneal fluid, synovial fluid, CAPD fluid, hydrocele fluid	Microscopy	UK standards for Microbiology SMI B26	N/A	TM-A-MB003 TM-A-MB004

Investigation of Genital Tract and associated specimens **1234	High vaginal swab, low vaginal swab, vulval/labial swab, endocervical/cervical swab, bartholins cyst swab, penile swab, sub prepuce/meatus swab, urethral swab, genital ulcer swab, rectal swab, bartholins gland aspirate, fallopian tube aspirate, pouch of douglas aspirate, tubo-ovarian abscess, intra-uterine device	Microscopy	UK standards for Microbiology SMI B28	N/A	TM-A-MV001
Investigation of infection screen swabs from neonates **1234	Throat/oral swab, ear swab, eye swab, nasal swab, umbilical swab, axilla swab, groin swab, perineal swab	Microscopy	UK standards for Microbiology SMI B2, B11	N/A	TM-A-MW007
Investigation of specimens of Sputum, bronchoalveolar lavage and associated specimens **1234	Sputum, broncholveolar lavage, bronchial aspirate, bronchial washings, cough swab, nasopharyngeal swab/aspirate, pleural fluid	Microscopy	UK standards for Microbiology SMI B57	N/A	TM-A-MT001
Investigation of superficial wound swabs and intravascular cannulae **1234	Wound swab, skin swab, infected cyst swab, ulcer swab, line/catheter tips, exit site swab	Microscopy	UK standards for Microbiology SMI B11, B20	N/A	TM-A-MW002
Investigation of tissues, biopsies, bone and prosthetic devices **1234	Tissue specimens, biopsy specimens, prosthetic devices, products of conception	Microscopy	UK standards for Microbiology SMI B17, B42, B44	N/A	TM-A-MW006

	Investigation of urine specimens **1234	Urine	Microscopy	UK standards for Microbiology SMI B41	N/A	TM-A-MU001, PPC-PATH-MIC-22
1012 Preparation of films on glass slides followed by microscopic examination with or without fixation and staining with dyes as required - .02 Microscopic examination for parasites	Investigation of specimens other than blood for parasites **1234	Faeces, duodenal/jejunal aspirates, sellotape slide, urine, liver/spleen aspirates, sputum, bronchoalveolar lavage	Microscopy	UK standards for Microbiology SMI B32	N/A	TM-A-MF002
1012 Preparation of films on glass slides followed by microscopic examination with or without fixation and staining with dyes as required - .03 Microscopic examination for fungi	Investigation of abscesses, post-operative wounds and deep seated wound infections **1234	Deep seated wound swabs, pus, abscess swab, bile, drain fluids	Microscopy	UK standards for Microbiology SMI B14, B15	N/A	TM-A-MW003
	Investigation of Blood Cultures **1234	Blood	Microscopy	CE/UK standards for Microbiology SMI B37	N/A	TM-A-MB001
	Investigation of CSF **1234	CSF	Microscopy	UK standards for Microbiology SMI B27	N/A	TM-A-MB002
	Investigation of ear, nose, throat and related specimens **1234	Throat, nasal swab, ear swab, mouth/tongue swab, antrum washout, middle ear effusion, endotracheal tube	Microscopy	UK standards for Microbiology SMI B9,B5,B1,B4,B6	N/A	TM-A-MW001
	Investigation of eye swabs, contact lens and fluid, intraocular fluids and corneal scrapings **1234	Eye swab, conjunctival swab, corneal ulcer swab, orbital cellulitis swab, eyelid swab, lacrimal swab/stone, contact lens fluid, corneal scrapings, intraocular fluid, aqueous humour, vitreous humour, canalicular pus	Microscopy	UK standards for Microbiology SMI B2, B31, B52	N/A	TM-A-MW004

Investigation of fluids from normally sterile sites **1234	Joint fluid, amniotic fluid, ascitic fluid, bursa fluid, pericardial fluid, peritoneal fluid, synovial fluid, CAPD fluid, hydrocele fluid	Microscopy	UK standards for Microbiology SMI B26	N/A	TM-A-MB003
Investigation of Genital Tract and associated specimens **1234	High vaginal swab, low vaginal swab, vulval/labial swab, endocervical/cervical swab, bartholins cyst swab, penile swab, sub prepuce/meatus swab, urethral swab, genital ulcer swab, rectal swab, bartholins gland aspirate, fallopian tube aspirate, pouch of douglas aspirate, tubo-ovarian abscess, intra-uterine device	Microscopy	UK standards for Microbiology SMI B28	N/A	TM-A-MV001
Investigation of infection screen swabs from neonates **1234	Throat/oral swab, ear swab, eye swab, nasal swab, umbilical swab, axilla swab, groin swab, perineal swab	Microscopy	UK standards for Microbiology SMI B2, B11	N/A	TM-A-MW007
Investigation of specimens for superficial mycoses **1234	Hair, nail, skin	Microscopy	UK standards for Microbiology SMI B39	N/A	TM-A-MW008
Investigation of specimens of Sputum, bronchoalveolar lavage and associated specimens **1234	Sputum, bronchoalveolar lavage, bronchial aspirate, bronchial washings, cough swab, nasopharyngeal swab/aspirate, pleural fluid	Microscopy	UK standards for Microbiology SMI B57	N/A	TM-A-MT001

	Investigation of superficial wound swabs and intravascular cannulae **1234	Wound swab, skin swab, infected cyst swab, ulcer swab, line/catheter tips, exit site swab	Microscopy	UK standards for Microbiology SMI B11, B20	N/A	TM-A-MW002
	Investigation of tissues, biopsies, bone and prosthetic devices **1234	Tissue specimens, biopsy specimens, prosthetic devices, products of conception	Microscopy	UK standards for Microbiology SMI B17, B42, B44	N/A	TM-A-MW006
	Investigation of urine specimens **1234	Urine	Microscopy	UK standards for Microbiology SMI B41	N/A	TM-A-MU001, PPC-PATH-MIC-22
1012 Preparation of films on glass slides followed by microscopic examination with or without fixation and staining with dyes as required - .04 Microscopic examination for mycobacteria	Investigation of specimens for Mycobacterium species **1234	Sputum, bronchoalveolar lavage, bronchial aspirate, bronchial washings, early morning urine, CSF, blood, bone marrow, pleural/pericardial fluid, pus, tissue, gastric lavage, CAPD fluid, swabs	Microscopy	UK standards for Microbiology SMI B40	N/A	TM-A-MT002
1013 Culture of organisms in liquid or agar based culture media with visual or instrument monitoring for growth - .01 Culture of general bacteria	Antimicrobial resistance testing **1234	Bacterial cultures	Culture	EUCAST	N/A	TM-A-MG001
	Determination of minimum inhibitory concentration **1234		Culture	EUCAST	N/A	TM-A-MG002
	Investigation of abscesses, post-operative wounds and deep seated wound infections **1234	Deep seated wound swabs, pus, abscess swab, bile, drain fluids	Culture	UK standards for Microbiology SMI B14, B15	N/A	TM-A-MW003
	Investigation of Blood Cultures **1234	Blood	Bactec Blood Culture system	CE/UK standards for Microbiology SMI B37	N/A	TM-A-MB001

Investigation of CSF **1234	CSF	Culture	UK standards for Microbiology SMI B27	N/A	TM-A-MB002
Investigation of ear, nose, throat and related specimens **1234	Throat, nasal swab, ear swab, mouth/tongue swab, antrum washout, middle ear effusion, endotracheal tube	Culture	UK standards for Microbiology SMI B9,B5,B1,B4,B6	N/A	TM-A-MW001
Investigation of eye swabs, contact lens and fluid, intraocular fluids and corneal scrapings **1234	Eye swab, conjunctival swab, corneal ulcer swab, orbital cellulitis swab, eyelid swab, lacrimal swab/stone, contact lens fluid, corneal scrapings, intraocular fluid, aqueous humour, vitreous humour, canalicular pus	Culture	UK standards for Microbiology SMI B2, B31, B52	N/A	TM-A-MW004
Investigation of faeces specimens for bacterial pathogens **1234	Faeces, rectal swab	Culture	UK standards for Microbiology SMI B30	N/A	TM-A-MF001
Investigation of fluids from normally sterile sites **1234	Joint fluid, amniotic fluid, ascitic fluid, bursa fluid, pericardial fluid, peritoneal fluid, synovial fluid, CAPD fluid, hydrocele fluid	Culture	UK standards for Microbiology SMI B26	N/A	TM-A-MB003
Investigation of Genital Tract and associated specimens **1234	High vaginal swab, low vaginal swab, vulval/labial swab, endocervical/cervical swab, bartholins cyst swab, penile swab, sub prepuce/meatus swab, urethral swab, genital ulcer swab, rectal swab, bartholins gland aspirate, fallopian tube aspirate, pouch	Culture	UK standards for Microbiology SMI B28	N/A	TM-A-MV001

	of douglas aspirate, tubo-ovarian abscess, intra-uterine device				
Investigation of infection screen swabs from neonates **1234	Throat/oral swab, ear swab, eye swab, nasal swab, umbilical swab, axilla swab, groin swab, perineal swab	Culture	UK standards for Microbiology SMI B2, B11	N/A	TM-A-MW007
Investigation of specimens of Sputum, bronchoalveolar lavage and associated specimens **1234	Sputum, bronchoalveolar lavage, bronchial aspirate, bronchial washings, cough swab, nasopharyngeal swab/aspirate, pleural fluid	Culture	UK standards for Microbiology SMI B57	N/A	TM-A-MT001
Investigation of superficial wound swabs and intravascular cannulae **1234	Wound swab, skin swab, infected cyst swab, ulcer swab, line/catheter tips, exit site swab	Culture	UK standards for Microbiology SMI B11, B20	N/A	TM-A-MW002
Investigation of tissues, biopsies, bone and prosthetic devices **1234	Tissue specimens, biopsy specimens, prosthetic devices, products of conception	Culture	UK standards for Microbiology SMI B17, B42, B44	N/A	TM-A-MW006
Investigation of urine specimens **1234	Urine	Culture/uripus system	CE/UK standards for Microbiology SMI B41	N/A	TM-A-MU001, PPC-PATH-MIC-22
Screening of specimens and management of isolates for carbapenem resistance in Enterobacterales **1234	Rectal swab, faeces, urine, wound swab, tip, isolates	Culture	UK standards for Microbiology SMI B60	N/A	TM-A-MM003
Screening of specimens for Methicillin resistant	Nasal swab, throat swab, perineal swab,	Culture	UK standards for Microbiology SMI B29	N/A	TM-A-MM001

	Staphylococcus aureus MRSA **1234	urine, sputum, wound swab				
	Screening of specimens for Vancomycin resistant Enterococci **1234	Rectal swab, perineal swab, faeces, urine, wound swab	Culture	Guidelines for control and prevention of multi-drug resistant organisms (MDRO) excluding MRSA in the Healthcare Setting	N/A	TM-A-MM002
1013 Culture of organisms in liquid or agar based culture media with visual or instrument monitoring for growth - .02 Culture of fungi	Antifungal susceptibility testing **1234	Fungal cultures	Culture	CLSI	N/A	TM-A-MG004
	Antimicrobial resistance testing **1234	Bacterial cultures	Culture	EUCAST	N/A	TM-A-MG001
	Determination of minimum inhibitory concentration **1234		Bruker Maldi TOF	CE/EUCAST	N/A	TM-A-MG002
	Investigation of abscesses, post-operative wounds and deep seated wound infections **1234	Deep seated wound swabs, pus, abscess swab, bile, drain fluids	Culture	UK standards for Microbiology SMI B14, B15	N/A	TM-A-MW003
	Investigation of Blood Cultures **1234	Blood	Bactec Blood Culture system	CE/UK standards for Microbiology SMI B37	N/A	TM-A-MB001
	Investigation of CSF **1234	CSF	Culture	UK standards for Microbiology SMI B27	N/A	TM-A-MB002
	Investigation of ear, nose, throat and related specimens **1234	Throat, nasal swab, ear swab, mouth/tongue swab, antrum washout, middle ear effusion, endotracheal tube	Culture	UK standards for Microbiology SMI B9,B5,B1,B4,B6	N/A	TM-A-MW001
	Investigation of eye swabs, contact lens and fluid, intraocular	Eye swab, conjunctival swab, corneal ulcer swab, orbital cellulitis swab, eyelid swab,	Culture	UK standards for Microbiology SMI B2, B31, B52	N/A	TM-A-MW004

fluids and corneal scrapings **1234	lacrimal swab/stone, contact lens fluid, corneal scrapings, intraocular fluid, aqueous humour, vitreous humour, canalicular pus				
Investigation of faeces specimens for bacterial pathogens **1234	Faeces, rectal swab	Culture	UK standards for Microbiology SMI B30	N/A	TM-A-MF001
Investigation of fluids from normally sterile sites **1234	Joint fluid, amniotic fluid, ascitic fluid, bursa fluid, pericardial fluid, peritoneal fluid, synovial fluid, CAPD fluid, hydrocele fluid	Culture	UK standards for Microbiology SMI B26	N/A	TM-A-MB003
Investigation of Genital Tract and associated specimens **1234	High vaginal swab, low vaginal swab, vulval/labial swab, endocervical/cervical swab, bartholins cyst swab, penile swab, sub prepuce/meatus swab, urethral swab, genital ulcer swab, rectal swab, bartholins gland aspirate, fallopian tube aspirate, pouch of douglas aspirate, tubo-ovarian abscess, intra-uterine device	Culture	UK standards for Microbiology SMI B28	N/A	TM-A-MV001
Investigation of infection screen swabs from neonates **1234	Throat/oral swab, ear swab, eye swab, nasal swab, umbilical swab, axilla swab, groin swab, perineal swab	Culture	UK standards for Microbiology SMI B2, B11	N/A	TM-A-MW007
Investigation of specimens for	Hair, nail, skin	Culture	UK standards for Microbiology SMI B39	N/A	TM-A-MW008

	superficial mycoses **1234					
	Investigation of specimens of Sputum, bronchoalveolar lavage and associated specimens **1234	Sputum, bronchoalveolar lavage, bronchial aspirate, bronchial washings, cough swab, nasopharyngeal swab/aspirate, pleural fluid	Culture	UK standards for Microbiology SMI B57	N/A	TM-A-MT001
	Investigation of superficial wound swabs and intravascular cannulae **1234	Wound swab, skin swab, infected cyst swab, ulcer swab, line/catheter tips, exit site swab	Culture	UK standards for Microbiology SMI B11, B20	N/A	TM-A-MW002
	Investigation of tissues, biopsies, bone and prosthetic devices **1234	Tissue specimens, biopsy specimens, prosthetic devices, products of conception	Culture	UK standards for Microbiology SMI B17, B42, B44	N/A	TM-A-MW006
	Investigation of urine specimens **1234	Urine	Culture/uripus system	CE/UK standards for Microbiology SMI B41	N/A	TM-A-MU001, PPC-PATH-MIC-22
1013 Culture of organisms in liquid or agar based culture media with visual or instrument monitoring for growth - .03 Culture of mycobacteria	Investigation of specimens for Mycobacterium species **1234	Sputum, bronchoalveolar lavage, bronchial aspirate, bronchial washings, early morning urine, CSF, blood, bone marrow, pleural/pericardial fluid, pus, tissue, gastric lavage, CAPD fluid, swabs	Culture/MB Bact Alert	CE/UK standards for Microbiology SMI B40	N/A	TM-A-MT002
1014 Detection of bacterial, parasite, viral or fungal antigens using specific antibodies and appropriate techniques - .01 Slide agglutination,	Investigation of abscesses, post-operative wounds and deep seated wound infections **1234	Deep seated wound swabs, pus, abscess swab, bile, drain fluids	Manual	UK standards for Microbiology SMI B14, B15	N/A	TM-A-MW003

Investigation of Blood Cultures **1234	Blood	Manual	CE/UK standards for Microbiology SMI B37	N/A	TM-A-MB001
Investigation of CSF **1234	CSF	Manual	UK standards for Microbiology SMI B27	N/A	TM-A-MB002
Investigation of ear, nose, throat and related specimens **1234	Throat, nasal swab, ear swab, mouth/tongue swab, antrum washout, middle ear effusion, endotracheal tube	Manual	UK standards for Microbiology SMI B9,B5,B1,B4,B6	N/A	TM-A-MW001
Investigation of eye swabs, contact lens and fluid, intraocular fluids and corneal scrapings **1234	Eye swab, conjunctival swab, corneal ulcer swab, orbital cellulitis swab, eyelid swab, lacrimal swab/stone, contact lens fluid, corneal scrapings, intraocular fluid, aqueous humour, vitreous humour, canalicular pus	Manual	UK standards for Microbiology SMI B2, B31, B52	N/A	TM-A-MW004
Investigation of faeces specimens for bacterial pathogens **1234	Faeces, rectal swab	Manual	UK standards for Microbiology SMI B30	N/A	TM-A-MF001
Investigation of fluids from normally sterile sites **1234	Joint fluid, amniotic fluid, ascitic fluid, bursa fluid, pericardial fluid, peritoneal fluid, synovial fluid, CAPD fluid, hydrocele fluid	Manual	UK standards for Microbiology SMI B26	N/A	TM-A-MB003
Investigation of Genital Tract and associated specimens **1234	High vaginal swab, low vaginal swab, vulval/labial swab, endocervical/cervical swab, bartholins cyst swab, penile swab, sub prepuce/meatus swab, urethral swab, genital ulcer swab, rectal swab,	Manual	UK standards for Microbiology SMI B28	N/A	TM-A-MV001

	bartholins gland aspirate, fallopian tube aspirate, pouch of douglas aspirate, tubo-ovarian abscess, intra-uterine device				
Investigation of infection screen swabs from neonates **1234	Throat/oral swab, ear swab, eye swab, nasal swab, umbilical swab, axilla swab, groin swab, perineal swab	Manual	UK standards for Microbiology SMI B2, B11	N/A	TM-A-MW007
Investigation of specimens of Sputum, bronchoalveolar lavage and associated specimens **1234	Sputum, bronchoalveolar lavage, bronchial aspirate, bronchial washings, cough swab, nasopharyngeal swab/aspirate, pleural fluid	Manual	UK standards for Microbiology SMI B57	N/A	TM-A-MT001
Investigation of superficial wound swabs and intravascular cannulae **1234	Wound swab, skin swab, infected cyst swab, ulcer swab, line/catheter tips, exit site swab	Manual	UK standards for Microbiology SMI B11, B20	N/A	TM-A-MW002
Investigation of tissues, biopsies, bone and prosthetic devices **1234	Tissue specimens, biopsy specimens, prosthetic devices, products of conception	Manual	UK standards for Microbiology SMI B17, B42, B44	N/A	TM-A-MW006
Investigation of urine specimens **1234	Urine	Manual	UK standards for Microbiology SMI B41	N/A	TM-A-MU001, PPC-PATH-MIC-22
Screening of specimens and management of isolates for carbapenem resistance in Enterobacterales **1234	Rectal swab, faeces, urine, wound swab, tip, isolates	Manual	UK standards for Microbiology SMI B60	N/A	TM-A-MM003

	Screening of specimens for Methicillin resistant Staphylococcus aureus MRSA **1234	Nasal swab, throat swab, perineal swab, urine, sputum, wound swab	Manual	UK standards for Microbiology SMI B29	N/A	TM-A-MM001
	Screening of specimens for Vancomycin resistant Enterococci **1234	Rectal swab, perineal swab, faeces, urine, wound swab	Manual	Guidelines for control and prevention of multi-drug resistant organisms (MDRO) excluding MRSA in the Healthcare Setting	N/A	TM-A-MM002
1014 Detection of bacterial, parasite, viral or fungal antigens using specific antibodies and appropriate techniques - .02 Particle agglutination	Investigation of abscesses, post-operative wounds and deep seated wound infections **1234	Deep seated wound swabs, pus, abscess swab, bile, drain fluids	Manual	UK standards for Microbiology SMI B14, B15	N/A	TM-A-MW003
	Investigation of Blood Cultures **1234	Blood	Manual	CE/UK standards for Microbiology SMI B37	N/A	TM-A-MB001
	Investigation of CSF **1234	CSF	Manual	UK standards for Microbiology SMI B27	N/A	TM-A-MB002
	Investigation of ear, nose, throat and related specimens **1234	Throat, nasal swab, ear swab, mouth/tongue swab, antrum washout, middle ear effusion, endotracheal tube	Manual	UK standards for Microbiology SMI B9,B5,B1,B4,B6	N/A	TM-A-MW001
	Investigation of eye swabs, contact lens and fluid, intraocular fluids and corneal scrapings **1234	Eye swab, conjunctival swab, corneal ulcer swab, orbital cellulitis swab, eyelid swab, lacrimal swab/stone, contact lens fluid, corneal scrapings, intraocular fluid, aqueous humour, vitreous humour, canalicular pus	Manual	UK standards for Microbiology SMI B2, B31, B52	N/A	TM-A-MW004
	Investigation of faeces specimens for	Faeces, rectal swab **1234	Manual	UK standards for Microbiology SMI B30	N/A	TM-A-MF001

bacterial pathogens **1234					
Investigation of fluids from normally sterile sites **1234	Joint fluid, amniotic fluid, ascitic fluid, bursa fluid, pericardial fluid, peritoneal fluid, synovial fluid, CAPD fluid, hydrocele fluid	Manual	UK standards for Microbiology SMI B26	N/A	TM-A-MB003
Investigation of Genital Tract and associated specimens **1234	High vaginal swab, low vaginal swab, vulval/labial swab, endocervical/cervical swab, bartholins cyst swab, penile swab, sub prepuce/meatus swab, urethral swab, genital ulcer swab, rectal swab, bartholins gland aspirate, fallopian tube aspirate, pouch of douglas aspirate, tubo-ovarian abscess, intra-uterine device	Manual	UK standards for Microbiology SMI B28	N/A	TM-A-MV001
Investigation of infection screen swabs from neonates **1234	Throat/oral swab, ear swab, eye swab, nasal swab, umbilical swab, axilla swab, groin swab, perineal swab	Manual	UK standards for Microbiology SMI B2, B11	N/A	TM-A-MW007
Investigation of specimens of Sputum, bronchoalveolar lavage and associated specimens **1234	Sputum, bronchoalveolar lavage, bronchial aspirate, bronchial washings, cough swab, nasopharyngeal swab/aspirate, pleural fluid	Manual	UK standards for Microbiology SMI B57	N/A	TM-A-MT001
Investigation of superficial wound swabs and	Wound swab, skin swab, infected cyst swab, ulcer swab,	Manual	UK standards for Microbiology SMI B11, B20	N/A	TM-A-MW002

	intravascular cannulae **1234	line/catheter tips, exit site swab				
	Investigation of tissues, biopsies, bone and prosthetic devices **1234	Tissue specimens, biopsy specimens, prosthetic devices, products of conception	Manual	UK standards for Microbiology SMI B17, B42, B44	N/A	TM-A-MW006
	Investigation of urine specimens **1234	Urine	Manual	UK standards for Microbiology SMI B41	N/A	TM-A-MU001, PPC-PATH-MIC-22
	Screening of specimens and management of isolates for carbapenem resistance in Enterobacterales **1234	Rectal swab, faeces, urine, wound swab, tip, isolates	Manual	UK standards for Microbiology SMI B60	N/A	TM-A-MM003
	Screening of specimens for Methicillin resistant Staphylococcus aureus MRSA **1234	Nasal swab, throat swab, perineal swab, urine, sputum, wound swab	Manual	UK standards for Microbiology SMI B29	N/A	TM-A-MM001
	Screening of specimens for Vancomycin resistant Enterococci **1234	Rectal swab, perineal swab, faeces, urine, wound swab	Manual	Guidelines for control and prevention of multi-drug resistant organisms (MDRO) excluding MRSA in the Healthcare Setting	N/A	TM-A-MM002
1014 Detection of bacterial, parasite, viral or fungal antigens using specific antibodies and appropriate techniques - .03 Enzyme immunoassay,	Investigation of faeces specimens for toxigenic Clostridium difficile	Faeces	Manual	CE/UK standards for Microbiology SMI B10	N/A	TM-A-MF005
1014 Detection of bacterial, parasite, viral or fungal antigens using specific antibodies and appropriate techniques - .04	Detection of Carbapenemase using lateral flow **1234	Bacterial cultures	Manual	National Guidelines on Detection of CPE	N/A	TM-A-MM003

Immunochromatographic methods,						
	Investigation of abscesses, post-operative wounds and deep seated wound infections **1234	Deep seated wound swabs, pus, abscess swab, bile, drain fluids	Manual	UK standards for Microbiology SMI B14, B15	N/A	TM-A-MW003
	Investigation of Blood Cultures **1234	Blood	Manual	CE/UK standards for Microbiology SMI B37	N/A	TM-A-MB001
	Investigation of CSF **1234	CSF	Manual	UK standards for Microbiology SMI B27	N/A	TM-A-MB002
	Investigation of ear, nose, throat and related specimens **1234	Throat, nasal swab, ear swab, mouth/tongue swab, antrum washout, middle ear effusion, endotracheal tube	Manual	UK standards for Microbiology SMI B9,B5,B1,B4,B6	N/A	TM-A-MW001
	Investigation of eye swabs, contact lens and fluid, intraocular fluids and corneal scrapings **1234	Eye swab, conjunctival swab, corneal ulcer swab, orbital cellulitis swab, eyelid swab, lacrimal swab/stone, contact lens fluid, corneal scrapings, intraocular fluid, aqueous humour, vitreous humour, canalicular pus	Manual	UK standards for Microbiology SMI B2, B31, B52	N/A	TM-A-MW004
	Investigation of faeces specimens for bacterial pathogens **1234	Faeces, rectal swab **1234	Manual	UK standards for Microbiology SMI B30	N/A	TM-A-MF001
	Investigation of faeces specimens for C. difficile **1234	Faeces, rectal swab	Manual	UK standards for Microbiology SMI B30	N/A	TM-A-MF005
	Investigation of fluids from normally sterile sites **1234	Joint fluid, amniotic fluid, ascitic fluid, bursa fluid, pericardial fluid, peritoneal fluid,	Manual	UK standards for Microbiology SMI B26	N/A	TM-A-MB003

	synovial fluid, CAPD fluid, hydrocele fluid				
Investigation of Genital Tract and associated specimens **1234	High vaginal swab, low vaginal swab, vulval/labial swab, endocervical/cervical swab, bartholins cyst swab, penile swab, sub prepuce/meatus swab, urethral swab, genital ulcer swab, rectal swab, bartholins gland aspirate, fallopian tube aspirate, pouch of douglas aspirate, tubo-ovarian abscess, intra-uterine device	Manual	UK standards for Microbiology SMI B28	N/A	TM-A-MV001
Investigation of infection screen swabs from neonates **1234	Throat/oral swab, ear swab, eye swab, nasal swab, umbilical swab, axilla swab, groin swab, perineal swab	Manual	UK standards for Microbiology SMI B2, B11	N/A	TM-A-MW007
Investigation of specimens of Sputum, bronchoalveolar lavage and associated specimens **1234	Sputum, bronchoalveolar lavage, bronchial aspirate, bronchial washings, cough swab, nasopharyngeal swab/aspirate, pleural fluid	Manual	UK standards for Microbiology SMI B57	N/A	TM-A-MT001
Investigation of superficial wound swabs and intravascular cannulae **1234	Wound swab, skin swab, infected cyst swab, ulcer swab, line/catheter tips, exit site swab	Manual	UK standards for Microbiology SMI B11, B20	N/A	TM-A-MW002
Investigation of tissues, biopsies, bone and prosthetic devices **1234	Tissue specimens, biopsy specimens, prosthetic devices,	Manual	UK standards for Microbiology SMI B17, B42, B44	N/A	TM-A-MW006

		products of conception				
	Investigation of urine specimens **1234	Urine	Manual	UK standards for Microbiology SMI B41	N/A	TM-A-MU001, PPC-PATH-MIC-22
	Screening of specimens and management of isolates for carbapenem resistance in Enterobacterales **1234	Rectal swab, faeces, urine, wound swab, tip, isolates	Manual	UK standards for Microbiology SMI B60	N/A	TM-A-MM003
	Screening of specimens for Methicillin resistant Staphylococcus aureus MRSA **1234	Nasal swab, throat swab, perineal swab, urine, sputum, wound swab	Manual	UK standards for Microbiology SMI B29	N/A	TM-A-MM001
	Screening of specimens for Vancomycin resistant Enterococci **1234	Rectal swab, perineal swab, faeces, urine, wound swab	Manual	Guidelines for control and prevention of multi-drug resistant organisms (MDRO) excluding MRSA in the Healthcare Setting	N/A	TM-A-MM002
	The Detection of H. pylori antigen in faecal specimens **13	Faeces	N/A	Immunochromatographic	N/A	PPC-PATH-MIC-26
1015 Detection and/or identification of bacterial, parasite, fungal and viral nucleic acids - .03 Nucleic acid amplification tests, CE marked commercial systems	Confirmatory assay for the Molecular detection of Neisseria gonorrhoea	Endocervical/vaginal swab, urethral swab, urine	Genexpert	CE/ PHE-Guidance for the detection of gonorrhoea in England: Including guidance on the use of dual nucleic acid amplification tests (NAATs) for chlamydia and gonorrhoea	N/A	PPC-PATH-MIC-43
	Investigation of CSF **1234	CSF	Biofire	CE/UK standards for Microbiology SMI B27	N/A	TM-A-MB002
	Investigation of faeces specimens for	Faeces	GeneXpert, Epmotion, roche lightcycler 481	CE/UK standards for Microbiology SMI B10	N/A	TM-A-MF005

toxigenic Clostridium difficile					
Investigation of faeces specimens for toxigenic Clostridioides difficile		Epmotion RocheLC 480II	CE marked	N/A	TM-A-MF-005 Investigation of Faeces Specimens for toxigenic Clostridioides difficile
Investigation of faeces specimens for toxigenic Clostridioides difficile**1234		Epmotion RocheLC 480II	CE marked	N/A	TM-A-MF-005 Investigation of Faeces Specimens for toxigenic Clostridioides difficile
Investigation of specimens for Mycobacterium species	Sputum, bronchoalveolar lavage, bronchial aspirate, bronchial washings, early morning urine, CSF, blood, bone marrow, pleural/pericardial fluid, pus, tissue, gastric lavage, CAPD fluid, swabs	GeneXpert	CE/UK standards for Microbiology SMI B40	N/A	TM-A-MT002
Molecular detection of Chlamydia trachomatis **1234	Urogenital	GeneXpert	CE/Chlamydia trachomatis Infection – Testing by Nucleic Acid Amplification Tests Issue 4 PHE	N/A	PPC-PATH-MIC-43
Molecular detection of Hepatitis C Viral load **1234	Serum/Plasma	GeneXpert	WHO (2017). WHO guidelines on hepatitis B and C testing. Geneva: World Health Organization; 2017. Licence: CC BY-NC-SA 3.0 IGO	N/A	PPC-PATH-MIC-46
Molecular Detection of Influenza A, Pandemic (H1N1) 2009 and Influenza B	Nasopharyngeal aspirate/washes/swab	GeneXpert	CE/Health Protection Agency (HPA) guidelines: “Pandemic (H1N1) 2009 influenza testing in the critical care setting”.	N/A	TM-A-MS030

Molecular Detection of Mycobacteria sp.	Sputum	GeneXpert	CE/UK standards for Microbiology SMI B40	N/A	TM-A-MT003
Molecular detection of Norovirus	Faeces	GeneXpert	CE/UK standards for Microbiology SMI B30	N/A	TM-A-MF006
Molecular Detection of Respiratory Pathogens on the BioFire **1234	Respiratory Samples	BioFire	CE/Laboratory testing for coronavirus disease 2019 (COVID-19) in suspected human cases WHO	N/A	TM-A-MS0030
Molecular Detection of Respiratory Viruses	Nasopharyngeal swabs	Abbott Alinity m	CE/Molecular	N/A	PPC-PATH-MIC-90
Molecular Detection of STI Pathogens Neisseria gonorrhoea, Chlamydia Trachomatis, Trichomonas vaginalis, Mycoplasma genitalium on the Abbott Alinity m STI assay **1234	Urogenital Samples	Allinity M	CE marked	N/A	PPC-PATH-MIC-94 The Molecular Detection of STI Pathogens on the Abbott Alinity m
Molecular detection of Trichomonas Vaginalis **1234	HVS/Urine	GeneXpert	CE/UK standards for Microbiology SMI B28	N/A	TM-A-MV001
Molecular screening of Faecal Specimens for Salmonella, Shigella, Campylobacter, Verotoxigenic E coli, Cryptosporidium and Giardia	Faeces	Epmotion RocheLC 480II	CE marked	N/A	TM-A-MT007 Molecular screening of faecal specimens for Salmonella, Shigella, Campylobacter, Verotoxigenic E coli, Cryptosporidium and Giardia
Molecular screening of Faecal Specimens for Salmonella, Shigella, Campylobacter, Verotoxigenic E coli,		Epmotion RocheLC 480II	CE marked	N/A	TM-A-MT007 Molecular screening of faecal specimens for Salmonella, Shigella, Campylobacter,

	Cryptosporidium and Giardia**1234					Verotoxigenic E coli, Cryptosporidium and Giardia
	Molecular screening of faecal specimens for Salmonella, Shigella, Campylobacter, Verotoxigenic E.coli, Cryptosporidium and Giardia		Epmotion, roche lightcycler 480	CE/UK standards for Microbiology SMI B30	N/A	TM-A-MF007
	Rapid Molecular Detection of Respiratory pathogens on the GeneXpert **1234	Respiratory Samples	GeneXpert	CE/Laboratory testing for coronavirus disease 2019 (COVID-19) in suspected human cases WHO	N/A	TM-A-MS0030
	SARS CoV-2 Viral RNA Extraction on the LifeRiver Extraction platform with amplification on the LightCycler LC480II **1234		LifeRiver + LC480II	CE/Laboratory testing for coronavirus disease 2019 (COVID-19) in suspected human cases WHO	N/A	PPC-PATH-MIC-84
	Screening of specimens and management of isolates for carbapenem resistance in Enterobacterales **1234	Rectal swab, faeces, urine, wound swab, tip, isolates	GeneXpert	CE/UK standards for Microbiology SMI B60	N/A	TM-A-MM003
	The Molecular Detection of SARS-CoV-2 on the Alinity m **1 2 3 4	Nasopharyngeal and oropharyngeal swabs	Alinity m	Nucleic acid amplification	N/A	PPC-PATH-MIC-90
1016 Identification of cultured bacteria and fungi using non-nucleic acid based techniques - .01 Biochemical methods	Investigation of abscesses, post-operative wounds and deep seated wound infections **1234	Deep seated wound swabs, pus, abscess swab, bile, drain fluids	Manual	UK standards for Microbiology SMI B14, B15	N/A	TM-A-MW003

, CE marked commercial systems						
	Investigation of Blood Cultures **1234	Blood	Manual	CE/UK standards for Microbiology SMI B37	N/A	TM-A-MB001
	Investigation of CSF **1234	CSF	Manual	UK standards for Microbiology SMI B27	N/A	TM-A-MB002
	Investigation of ear, nose, throat and related specimens **1234	Throat, nasal swab, ear swab, mouth/tongue swab, antrum washout, middle ear effusion, endotracheal tube	Manual	UK standards for Microbiology SMI B9,B5,B1,B4,B6	N/A	TM-A-MW001
	Investigation of eye swabs, contact lens and fluid, intraocular fluids and corneal scrapings **1234	Eye swab, conjunctival swab, corneal ulcer swab, orbital cellulitis swab, eyelid swab, lacrimal swab/stone, contact lens fluid, corneal scrapings, intraocular fluid, aqueous humour, vitreous humour, canalicular pus	Manual	UK standards for Microbiology SMI B2, B31, B52	N/A	TM-A-MW004
	Investigation of faeces specimens for bacterial pathogens **1234	Faeces, rectal swab	Manual	UK standards for Microbiology SMI B30	N/A	TM-A-MF001
	Investigation of fluids from normally sterile sites **1234	Joint fluid, amniotic fluid, ascitic fluid, bursa fluid, pericardial fluid, peritoneal fluid, synovial fluid, CAPD fluid, hydrocele fluid	Manual	UK standards for Microbiology SMI B26	N/A	TM-A-MB003
	Investigation of Genital Tract and associated specimens **1234	High vaginal swab, low vaginal swab, vulval/labial swab, endocervical/cervical swab, bartholins cyst swab, penile swab, sub prepuce/meatus swab, urethral swab,	Manual	UK standards for Microbiology SMI B28	N/A	TM-A-MV001

	genital ulcer swab, rectal swab, bartholins gland aspirate, fallopian tube aspirate, pouch of douglas aspirate, tubo-ovarian abscess, intra-uterine device				
Investigation of infection screen swabs from neonates **1234	Throat/oral swab, ear swab, eye swab, nasal swab, umbilical swab, axilla swab, groin swab, perineal swab	Manual	UK standards for Microbiology SMI B2, B11	N/A	TM-A-MW007
Investigation of specimens for superficial mycoses **1234	Hair, nail, skin	Manual	UK standards for Microbiology SMI B39	N/A	TM-A-MW008
Investigation of specimens of Sputum, bronchoalveolar lavage and associated specimens **1234	Sputum, bronchoalveolar lavage, bronchial aspirate, bronchial washings, cough swab, nasopharyngeal swab/aspirate, pleural fluid	Manual	UK standards for Microbiology SMI B57	N/A	TM-A-MT001
Investigation of superficial wound swabs and intravascular cannulae **1234	Wound swab, skin swab, infected cyst swab, ulcer swab, line/catheter tips, exit site swab	Manual	UK standards for Microbiology SMI B11, B20	N/A	TM-A-MW002
Investigation of tissues, biopsies, bone and prosthetic devices **1234	Tissue specimens, biopsy specimens, prosthetic devices, products of conception	Manual	UK standards for Microbiology SMI B17, B42, B44	N/A	TM-A-MW006
Investigation of urine specimens **1234	Urine	Manual	UK standards for Microbiology SMI B41	N/A	TM-A-MU001, PPC-PATH-MIC-22

	Screening of specimens and management of isolates for carbapenem resistance in Enterobacterales **1234	Rectal swab, faeces, urine, wound swab, tip, isolates	Manual	UK standards for Microbiology SMI B60	N/A	TM-A-MM003
	Screening of specimens for Methicillin resistant Staphylococcus aureus MRSA **1234	Nasal swab, throat swab, perineal swab, urine, sputum, wound swab	Manual	UK standards for Microbiology SMI B29	N/A	TM-A-MM001
	Screening of specimens for Vancomycin resistant Enterococci **1234	Rectal swab, perineal swab, faeces, urine, wound swab	Manual	Guidelines for control and prevention of multi-drug resistant organisms (MDRO) excluding MRSA in the Healthcare Setting	N/A	TM-A-MM002
1016 Identification of cultured bacteria and fungi using non-nucleic acid based techniques - .03 Identification of fungi by microscopic morphology	Investigation of abscesses, post-operative wounds and deep seated wound infections **1234	Deep seated wound swabs, pus, abscess swab, bile, drain fluids	Manual	UK standards for Microbiology SMI B14, B15	N/A	TM-A-MW003
	Investigation of Blood Cultures **1234	Blood	Manual	CE/UK standards for Microbiology SMI B37	N/A	TM-A-MB001
	Investigation of ear, nose, throat and related specimens **1234	Throat, nasal swab, ear swab, mouth/tongue swab, antrum washout, middle ear effusion, endotracheal tube	Manual	UK standards for Microbiology SMI B9,B5,B1,B4,B6	N/A	TM-A-MW001
	Investigation of eye swabs, contact lens and fluid, intraocular fluids and corneal scrapings **1234	Eye swab, conjunctival swab, corneal ulcer swab, orbital cellulitis swab, eyelid swab, lacrimal swab/stone, contact lens fluid, corneal scrapings,	Manual	UK standards for Microbiology SMI B2, B31, B52	N/A	TM-A-MW004

	intraocular fluid, aqueous humour, vitreous humour, canalicular pus				
Investigation of faeces specimens for bacterial pathogens **1234	Faeces, rectal swab	Manual	UK standards for Microbiology SMI B30	N/A	TM-A-MF001
Investigation of fluids from normally sterile sites **1234	Joint fluid, amniotic fluid, ascitic fluid, bursa fluid, pericardial fluid, peritoneal fluid, synovial fluid, CAPD fluid, hydrocele fluid	Manual	UK standards for Microbiology SMI B26	N/A	TM-A-MB003
Investigation of Genital Tract and associated specimens **1234	High vaginal swab, low vaginal swab, vulval/labial swab, endocervical/cervical swab, bartholins cyst swab, penile swab, sub prepuce/meatus swab, urethral swab, genital ulcer swab, rectal swab, bartholins gland aspirate, fallopian tube aspirate, pouch of douglas aspirate, tubo-ovarian abscess, intra-uterine device	Manual	UK standards for Microbiology SMI B28	N/A	TM-A-MV001
Investigation of infection screen swabs from neonates **1234	Throat/oral swab, ear swab, eye swab, nasal swab, umbilical swab, axilla swab, groin swab, perineal swab	Manual	UK standards for Microbiology SMI B2, B11	N/A	TM-A-MW007
Investigation of specimens for superficial mycoses **1234	Hair, nail, skin	Manual	UK standards for Microbiology SMI B39	N/A	TM-A-MW008

	Investigation of specimens of Sputum, bronchoalveolar lavage and associated specimens **1234	Sputum, bronchoalveolar lavage, bronchial aspirate, bronchial washings, cough swab, nasopharyngeal swab/aspirate, pleural fluid	Manual	UK standards for Microbiology SMI B57	N/A	TM-A-MT001
	Investigation of superficial wound swabs and intravascular cannulae **1234	Wound swab, skin swab, infected cyst swab, ulcer swab, line/catheter tips, exit site swab	Manual	UK standards for Microbiology SMI B11, B20	N/A	TM-A-MW002
	Investigation of tissues, biopsies, bone and prosthetic devices **1234	Tissue specimens, biopsy specimens, prosthetic devices, products of conception	Manual	UK standards for Microbiology SMI B17, B42, B44	N/A	TM-A-MW006
	Investigation of urine specimens **1234	Urine	Manual	UK standards for Microbiology SMI B41	N/A	TM-A-MU001, PPC-PATH-MIC-22
1016 Identification of cultured bacteria and fungi using non-nucleic acid based techniques - .04 Identification using MALDI-TOF Spectroscopy	Antifungal susceptibility testing **1234	Fungal cultures	Bruker Maldi TOF	CE/CLSI	N/A	TM-A-MG004
	Antimicrobial resistance testing **1234	Bacterial cultures	Bruker Maldi TOF	CE/EUCAST	N/A	TM-A-MG001
	Determination of minimum inhibitory concentration **1234		Sensitivity/Biomic/BMD Colistin	CE/EUCAST	N/A	TM-A-MG002
	Identification of micro-organisms using Matrix Assisted Laser Desorption/Ionisation (MALDI) Time of	Bacterial, Fungal isolates	MALDI Biotyper Siurs	CE marked	N/A	TM-A-MG005 Identification of micro-organisms using Matrix Assisted Laser Desorption/Ionisation (MALDI) Time of

Flight (TOF) Mass Spectrometry**1234					Flight (TOF) Mass Spectrometry
Investigation of abscesses, post-operative wounds and deep seated wound infections **1234	Deep seated wound swabs, pus, abscess swab, bile, drain fluids	Bruker Maldi TOF	CE/UK standards for Microbiology SMI B14, B15	N/A	TM-A-MW003
Investigation of Blood Cultures **1234	Blood	Manual	CE/UK standards for Microbiology SMI B37	N/A	TM-A-MB001
Investigation of CSF **1234	CSF	Bruker Maldi TOF	CE/UK standards for Microbiology SMI B27	N/A	TM-A-MB002
Investigation of ear, nose, throat and related specimens **1234	Throat, nasal swab, ear swab, mouth/tongue swab, antrum washout, middle ear effusion, endotracheal tube	Bruker Maldi TOF	CE/UK standards for Microbiology SMI B9,B5,B1,B4,B6	N/A	TM-A-MW001
Investigation of eye swabs, contact lens and fluid, intraocular fluids and corneal scrapings **1234	Eye swab, conjunctival swab, corneal ulcer swab, orbital cellulitis swab, eyelid swab, lacrimal swab/stone, contact lens fluid, corneal scrapings, intraocular fluid, aqueous humour, vitreous humour, canalicular pus	Bruker Maldi TOF	CE/UK standards for Microbiology SMI B2, B31, B52	N/A	TM-A-MW004
Investigation of faeces specimens for bacterial pathogens **1234	Faeces, rectal swab	Bruker Maldi TOF	CE/UK standards for Microbiology SMI B30	N/A	TM-A-MF001
Investigation of fluids from normally sterile sites **1234	Joint fluid, amniotic fluid, ascitic fluid, bursa fluid, pericardial fluid, peritoneal fluid, synovial fluid, CAPD fluid, hydrocele fluid	Bruker Maldi TOF	CE/UK standards for Microbiology SMI B26	N/A	TM-A-MB003

Investigation of Genital Tract and associated specimens **1234	High vaginal swab, low vaginal swab, vulval/labial swab, endocervical/cervical swab, Bartholin's cyst swab, penile swab, sub prepuce/meatus swab, urethral swab, genital ulcer swab, rectal swab, Bartholin's gland aspirate, fallopian tube aspirate, pouch of Douglas aspirate, tubo-ovarian abscess, intra-uterine device	Bruker Maldi TOF	CE/UK standards for Microbiology SMI B28	N/A	TM-A-MV001
Investigation of infection screen swabs from neonates **1234	Throat/oral swab, ear swab, eye swab, nasal swab, umbilical swab, axilla swab, groin swab, perineal swab	Bruker Maldi TOF	CE/UK standards for Microbiology SMI B2, B11	N/A	TM-A-MW007
Investigation of specimens for superficial mycoses **1234	Hair, nail, skin	Bruker Maldi TOF	CE/UK standards for Microbiology SMI B39	N/A	TM-A-MW008
Investigation of specimens of Sputum, bronchoalveolar lavage and associated specimens **1234	Sputum, bronchoalveolar lavage, bronchial aspirate, bronchial washings, cough swab, nasopharyngeal swab/aspirate, pleural fluid	Bruker Maldi TOF	CE/UK standards for Microbiology SMI B57	N/A	TM-A-MT001
Investigation of superficial wound swabs and intravascular cannulae **1234	Wound swab, skin swab, infected cyst swab, ulcer swab, line/catheter tips, exit site swab	Bruker Maldi TOF	CE/UK standards for Microbiology SMI B11, B20	N/A	TM-A-MW002

	Investigation of tissues, biopsies, bone and prosthetic devices **1234	Tissue specimens, biopsy specimens, prosthetic devices, products of conception	Bruker Maldi TOF	CE/UK standards for Microbiology SMI B17, B42, B44	N/A	TM-A-MW006
	Investigation of urine specimens **1234	Urine	Bruker Maldi TOF	CE/UK standards for Microbiology SMI B41	N/A	TM-A-MU001, PPC-PATH-MIC-22
	Screening of specimens and management of isolates for carbapenem resistance in Enterobacterales **1234	Rectal swab, faeces, urine, wound swab, tip, isolates	Bruker Maldi TOF	CE/UK standards for Microbiology SMI B60	N/A	TM-A-MM003
	Screening of specimens for Methicillin resistant Staphylococcus aureus MRSA **1234	Nasal swab, throat swab, perineal swab, urine, sputum, wound swab	Bruker Maldi TOF	CE/UK standards for Microbiology SMI B29	N/A	TM-A-MM001
	Screening of specimens for Vancomycin resistant Enterococci **1234	Rectal swab, perineal swab, faeces, urine, wound swab	Bruker Maldi TOF	CE/Guidelines for control and prevention of multi-drug resistant organisms (MDRO) excluding MRSA in the Healthcare Setting	N/A	TM-A-MM002
1017 Measurement of antimicrobial activity and application of clinical interpretive criteria to general bacteria (rapidly growing aerobes) - .01 Anaerobes	Antimicrobial resistance testing **1234	Bacterial cultures	Sensitivity/Biomic	CE/UCAST	N/A	TM-A-MG001
	Determination of minimum inhibitory concentration **1234		Sensitivity/Biomic/BMD Colistin	CE/EUCAST	N/A	TM-A-MG002
	Investigation of abscesses, post-operative wounds and deep seated	Deep seated wound swabs, pus, abscess swab, bile, drain fluids	Sensitivity/Biomic	CE/UK standards for Microbiology SMI B14, B15	N/A	TM-A-MW003

wound infections **1234					
Investigation of blood cultures **1234	Blood	Sensitivity/Biomic	CE/UK standards for Microbiology SMI B37	N/A	TM-A-MB001
Investigation of CSF **1234	CSF	Sensitivity/Biomic	CE/UK standards for Microbiology SMI B27	N/A	TM-A-MB002
Investigation of ear, nose, throat and related specimens **1234	Throat, nasal swab, ear swab, mouth/tongue swab, antrum washout, middle ear effusion, endotracheal tube	Sensitivity/Biomic	CE/UK standards for Microbiology SMI B9,B5,B1,B4,B6	N/A	TM-A-MW001
Investigation of eye swabs, contact lens and fluid, intraocular fluids and corneal scrapings **1234	Eye swab, conjunctival swab, corneal ulcer swab, orbital cellulitis swab, eyelid swab, lacrimal swab/stone, contact lens fluid, corneal scrapings, intraocular fluid, aqueous humour, vitreous humour, canalicular pus	Sensitivity/Biomic	CE/UK standards for Microbiology SMI B2, B31, B52	N/A	TM-A-MW004
Investigation of faeces specimens for bacterial pathogens **1234	Faeces, rectal swab	Sensitivity/Biomic	CE/UK standards for Microbiology SMI B30	N/A	TM-A-MF001
Investigation of fluids from normally sterile sites **1234	Joint fluid, amniotic fluid, ascitic fluid, bursa fluid, pericardial fluid, peritoneal fluid, synovial fluid, CAPD fluid, hydrocele fluid	Sensitivity/Biomic	CE/UK standards for Microbiology SMI B26	N/A	TM-A-MB003
Investigation of Genital Tract and associated specimens **1234	High vaginal swab, low vaginal swab, vulval/labial swab, endocervical/cervical swab, bartholins cyst swab, penile swab, sub prepuce/meatus swab, urethral swab,	Sensitivity/Biomic	CE/UK standards for Microbiology SMI B28	N/A	TM-A-MV001

		genital ulcer swab, rectal swab, bartholins gland aspirate, fallopian tube aspirate, pouch of douglas aspirate, tubo-ovarian abscess, intra-uterine device				
	Investigation of infection screen swabs from neonates **1234	Throat/oral swab, ear swab, eye swab, nasal swab, umbilical swab, axilla swab, groin swab, perineal swab	Sensitivity/Biomic	CE/UK standards for Microbiology SMI B2, B11	N/A	TM-A-MW007
	Investigation of specimens of Sputum, bronchoalveolar lavage and associated specimens **1234	Sputum, broncholveolar lavage, bronchial aspirate, bronchial washings, cough swab, nasopharyngeal swab/aspirate, pleural fluid	Sensitivity/Biomic	CE/UK standards for Microbiology SMI B57	N/A	TM-A-MT001
	Investigation of superficial wound swabs and intravascular cannulae **1234	Wound swab, skin swab, infected cyst swab, ulcer swab, line/catheter tips, exit site swab	Sensitivity/Biomic	CE/UK standards for Microbiology SMI B11, B20	N/A	TM-A-MW002
	Investigation of tissues, biopsies, bone and prosthetic devices **1234	Tissue specimens, biopsy specimens, prosthetic devices, products of conception	Sensitivity/Biomic	CE/UK standards for Microbiology SMI B17, B42, B44	N/A	TM-A-MW006
	Investigation of urine specimens **1234	Urine	Sensitivity/Biomic	CE/UK standards for Microbiology SMI B41	N/A	TM-A-MU001, PPC-PATH-MIC-22
1017 Measurement of antimicrobial activity and application of clinical interpretive criteria to general bacteria (rapidly	Antifungal susceptibility testing **1234	Fungal cultures	Manual/Sensitivity	CLSI	N/A	TM-A-MG004

growing aerobes) - .03 Yeasts						
	Investigation of abscesses, post-operative wounds and deep seated wound infections **1234	Deep seated wound swabs, pus, abscess swab, bile, drain fluids	Manual/Sensitivity	UK standards for Microbiology SMI B14, B15	N/A	TM-A-MW003
	Investigation of blood cultures **1234	Blood	Manual/Sensitivity	UK standards for Microbiology SMI B37	N/A	TM-A-MB001
	Investigation of CSF **1234	CSF	Manual/Sensitivity	UK standards for Microbiology SMI B27	N/A	TM-A-MB002
	Investigation of ear, nose, throat and related specimens **1234	Throat, nasal swab, ear swab, mouth/tongue swab, antrum washout, middle ear effusion, endotracheal tube	Manual/Sensitivity	UK standards for Microbiology SMI B9,B5,B1,B4,B6	N/A	TM-A-MW001
	Investigation of eye swabs, contact lens and fluid, intraocular fluids and corneal scrapings **1234	Eye swab, conjunctival swab, corneal ulcer swab, orbital cellulitis swab, eyelid swab, lacrimal swab/stone, contact lens fluid, corneal scrapings, intraocular fluid, aqueous humour, vitreous humour, canalicular pus	Manual/Sensitivity	UK standards for Microbiology SMI B2, B31, B52	N/A	TM-A-MW004
	Investigation of faeces specimens for bacterial pathogens **1234	Faeces, rectal swab	Manual/Sensitivity	UK standards for Microbiology SMI B30	N/A	TM-A-MF001
	Investigation of fluids from normally sterile sites **1234	Joint fluid, amniotic fluid, ascitic fluid, bursa fluid, pericardial fluid, peritoneal fluid, synovial fluid, CAPD fluid, hydrocele fluid	Manual/Sensitivity	UK standards for Microbiology SMI B26	N/A	TM-A-MB003

Investigation of Genital Tract and associated specimens **1234	High vaginal swab, low vaginal swab, vulval/labial swab, endocervical/cervical swab, Bartholins cyst swab, penile swab, sub prepuce/meatus swab, urethral swab, genital ulcer swab, rectal swab, Bartholins gland aspirate, fallopian tube aspirate, pouch of Douglas aspirate, tubo-ovarian abscess, intra-uterine device	Manual/Sensitivity	UK standards for Microbiology SMI B28	N/A	TM-A-MV001
Investigation of infection screen swabs from neonates **1234	Throat/oral swab, ear swab, eye swab, nasal swab, umbilical swab, axilla swab, groin swab, perineal swab	Manual/Sensitivity	UK standards for Microbiology SMI B2, B11	N/A	TM-A-MW007
Investigation of specimens for superficial mycoses **1234	Hair, nail, skin	Manual/Sensitivity	UK standards for Microbiology SMI B39	N/A	TM-A-MW008
Investigation of specimens of Sputum, bronchoalveolar lavage and associated specimens **1234	Sputum, bronchoalveolar lavage, bronchial aspirate, bronchial washings, cough swab, nasopharyngeal swab/aspirate, pleura	Manual/Sensitivity	UK standards for Microbiology SMI B57	N/A	TM-A-MT001
Investigation of superficial wound swabs and intravascular cannulae **1234	Wound swab, skin swab, infected cyst swab, ulcer swab, line/catheter tips, exit site swab	Manual/Sensitivity	UK standards for Microbiology SMI B11, B20	N/A	TM-A-MW002
Investigation of tissues, biopsies,	Tissue specimens, biopsy specimens, prosthetic devices,	Manual/Sensitivity	UK standards for Microbiology SMI B17, B42, B44	N/A	TM-A-MW006

	bone and prosthetic devices **1234	products of conception				
	Investigation of urine specimens **1234	Urine	Manual/Sensitivity	UK standards for Microbiology SMI B41	N/A	TM-A-MU001, PPC-PATH-MIC-22
1017 Measurement of antimicrobial activity and application of clinical interpretive criteria to general bacteria (rapidly growing aerobes) - .04 Filamentous fungi	Investigation of abscesses, post-operative wounds and deep seated wound infections **1234	Deep seated wound swabs, pus, abscess swab, bile, drain fluids	Manual/Sensitivity	UK standards for Microbiology SMI B14, B15	N/A	TM-A-MW003
	Investigation of Blood Cultures **1234	Blood	Manual/Sensitivity	CE/UK standards for Microbiology SMI B37	N/A	TM-A-MB001
	Investigation of CSF **1234	CSF	Manual/Sensitivity	UK standards for Microbiology SMI B27	N/A	TM-A-MB002
	Investigation of ear, nose, throat and related specimens **1234	Throat, nasal swab, ear swab, mouth/tongue swab, antrum washout, middle ear effusion, endotracheal tube	Manual/Sensitivity	UK standards for Microbiology SMI B9,B5,B1,B4,B6	N/A	TM-A-MW001
	Investigation of eye swabs, contact lens and fluid, intraocular fluids and corneal scrapings **1234	Eye swab, conjunctival swab, corneal ulcer swab, orbital cellulitis swab, eyelid swab, lacrimal swab/stone, contact lens fluid, corneal scrapings, intraocular fluid, aqueous humour, vitreous humour, canalicular pus	Manual/Sensitivity	UK standards for Microbiology SMI B2, B31, B52	N/A	TM-A-MW004
	Investigation of faeces specimens for bacterial pathogens **1234	Faeces, rectal swab	Manual/Sensitivity	UK standards for Microbiology SMI B30	N/A	TM-A-MF001
	Investigation of fluids from normally sterile sites **1234	Joint fluid, amniotic fluid, ascitic fluid, bursa fluid, pericardial fluid, peritoneal fluid,	Manual/Sensitivity	UK standards for Microbiology SMI B26	N/A	TM-A-MB003

	synovial fluid, CAPD fluid, hydrocele fluid				
Investigation of Genital Tract and associated specimens **1234	High vaginal swab, low vaginal swab, vulval/labial swab, endocervical/cervical swab, bartholins cyst swab, penile swab, sub prepuce/meatus swab, urethral swab, genital ulcer swab, rectal swab, bartholins gland aspirate, fallopian tube aspirate, pouch of douglas aspirate, tubo-ovarian abscess, intra-uterine device	Manual/Sensitivity	UK standards for Microbiology SMI B28	N/A	TM-A-MV001
Investigation of infection screen swabs from neonates **1234	Throat/oral swab, ear swab, eye swab, nasal swab, umbilical swab, axilla swab, groin swab, perineal swab	Manual/Sensitivity	UK standards for Microbiology SMI B2, B11	N/A	TM-A-MW007
Investigation of specimens of Sputum, bronchoalveolar lavage and associated specimens **1234	Sputum, bronchoalveolar lavage, bronchial aspirate, bronchial washings, cough swab, nasopharyngeal swab/aspirate, pleural fluid	Manual/Sensitivity	UK standards for Microbiology SMI B57	N/A	TM-A-MT001
Investigation of superficial wound swabs and intravascular cannulae **1234	Wound swab, skin swab, infected cyst swab, ulcer swab, line/catheter tips, exit site swab	Manual/Sensitivity	UK standards for Microbiology SMI B11, B20	N/A	TM-A-MW002
Investigation of tissues, biopsies, bone and prosthetic devices **1234	Tissue specimens, biopsy specimens, prosthetic devices,	Manual/Sensitivity	UK standards for Microbiology SMI B17, B42, B44	N/A	TM-A-MW006

		products of conception				
	Investigation of urine specimens **1234	Urine	Manual/Sensitivity	UK standards for Microbiology SMI B41	N/A	TM-A-MU001, PPC-PATH-MIC-22
1017 Measurement of antimicrobial activity and application of clinical interpretive criteria to general bacteria (rapidly growing aerobes) - .05 Other categories of organism (as specified)	Antimicrobial resistance testing **1234	Bacterial cultures	Sensitivity/Biomic	CE/EUCAST	N/A	TM-A-MG001
	Determination of minimum inhibitory concentration **1234		Sensitivity/Biomic/BMD Colistin	CE/EUCAST	N/A	TM-A-MG002
	Investigation of abscesses, post-operative wounds and deep seated wound infections **1234	Deep seated wound swabs, pus, abscess swab, bile, drain fluids	Sensitivity/Biomic	CE/UK standards for Microbiology SMI B14, B15	N/A	TM-A-MW003
	Investigation of Blood Cultures **1234	Blood	Sensitivity/Biomic	CE/UK standards for Microbiology SMI B37	N/A	TM-A-MB001
	Investigation of CSF **1234	CSF	Sensitivity/Biomic	CE/UK standards for Microbiology SMI B27	N/A	TM-A-MB002
	Investigation of ear, nose, throat and related specimens **1234	Throat, nasal swab, ear swab, mouth/tongue swab, antrum washout, middle ear effusion, endotracheal tube	Sensitivity/Biomic	CE/UK standards for Microbiology SMI B9,B5,B1,B4,B6	N/A	TM-A-MW001
	Investigation of eye swabs, contact lens and fluid, intraocular fluids and corneal scrapings **1234	Eye swab, conjunctival swab, corneal ulcer swab, orbital cellulitis swab, eyelid swab, lacrimal swab/stone, contact lens fluid, corneal scrapings, intraocular fluid, aqueous humour,	Sensitivity/Biomic	CE/UK standards for Microbiology SMI B2, B31, B52	N/A	TM-A-MW004

	vitreous humour, canalicular pus				
Investigation of faeces specimens for bacterial pathogens **1234	Faeces, rectal swab	Sensitivity/Biomic	CE/UK standards for Microbiology SMI B30	N/A	TM-A-MF001
Investigation of fluids from normally sterile sites **1234	Joint fluid, amniotic fluid, ascitic fluid, bursa fluid, pericardial fluid, peritoneal fluid, synovial fluid, CAPD fluid, hydrocele fluid	Sensitivity/Biomic	CE/UK standards for Microbiology SMI B26	N/A	TM-A-MB003
Investigation of Genital Tract and associated specimens **1234	High vaginal swab, low vaginal swab, vulval/labial swab, endocervical/cervical swab, bartholins cyst swab, penile swab, sub prepuce/meatus swab, urethral swab, genital ulcer swab, rectal swab, bartholins gland aspirate, fallopian tube aspirate, pouch of douglas aspirate, tubo-ovarian abscess, intra-uterine device	Sensitivity/Biomic	CE/UK standards for Microbiology SMI B28	N/A	TM-A-MV001
Investigation of infection screen swabs from neonates **1234	Throat/oral swab, ear swab, eye swab, nasal swab, umbilical swab, axilla swab, groin swab, perineal swab	Sensitivity/Biomic	CE/UK standards for Microbiology SMI B2, B11	N/A	TM-A-MW007
Investigation of specimens of Sputum, bronchoalveolar lavage and associated specimens **1234	Sputum, bronchoalveolar lavage, bronchial aspirate, bronchial washings, cough swab, nasopharyngeal	Sensitivity/Biomic	CE/UK standards for Microbiology SMI B57	N/A	TM-A-MT001

		swab/aspirate, pleural fluid				
	Investigation of superficial wound swabs and intravascular cannulae **1234	Wound swab, skin swab, infected cyst swab, ulcer swab, line/catheter tips, exit site swab	Sensitivity/Biomic	CE/UK standards for Microbiology SMI B11, B20	N/A	TM-A-MW002
	Investigation of tissues, biopsies, bone and prosthetic devices **1234	Tissue specimens, biopsy specimens, prosthetic devices, products of conception	Sensitivity/Biomic	CE/UK standards for Microbiology SMI B17, B42, B44	N/A	TM-A-MW006
	Investigation of urine specimens **1234	Urine	Sensitivity/Biomic	CE/UK standards for Microbiology SMI B41	N/A	TM-A-MU001, PPC-PATH-MIC-22
	Screening of specimens and management of isolates for carbapenem resistance in Enterobacterales **1234	Rectal swab, faeces, urine, wound swab, tip, isolates	Sensitivity/Biomic	CE/UK standards for Microbiology SMI B60	N/A	TM-A-MM003
	Screening of specimens for Methicillin resistant Staphylococcus aureus MRSA **1234	Nasal swab, throat swab, perineal swab, urine, sputum, wound swab	Sensitivity/Biomic	CE/UK standards for Microbiology SMI B29	N/A	TM-A-MM001
	Screening of specimens for Vancomycin resistant Enterococci **1234	Rectal swab, perineal swab, faeces, urine, wound swab	Sensitivity/Biomic	CE/Guidelines for control and prevention of multi-drug resistant organisms (MDRO) excluding MRSA in the Healthcare Setting	N/A	TM-A-MM002
1018 Detection of antibody response to infection using appropriate CE marked commercial techniques - .01 Particle agglutination, using CE marked commercial systems	Anti-Streptolysin (ASO) Latex Agglutination Slide Test	Serum	Particle Agglutination kit	CE marked	N/A	PPC-PATH-MIC-5 AntiStreptolysin O Biokit Rheumajet Procedure

	Anti-Streptolysin (ASO) Latex Agglutination Slide Test**1234		Particle Agglutination Kit	CE marked	N/A	PPC-PATH-MIC-5 AntiStreprolysin O Biokit Rheumajet Procedure
1018 Detection of antibody response to infection using appropriate CE marked commercial techniques - .02 Enzyme immunoassay, using CE marked commercial systems	Detection of Borrelia IgG using the DiaSorin Liaison XL **1234	Blood/Serum	Liaison XL	CE/Chemiluminescence	N/A	PPC-PATH-MIC-92
	Detection of Hepatitis A IgM **1234		Liaison XL	CE/Irish immunisation guidelines	N/A	PPC-PATH-MIC-66
	Detection of Hepatitis B Antibody **1234		Liaison XL	CE/Irish immunisation guidelines	N/A	PPC-PATH-MIC-68
	Detection of Hepatitis B Surface Antigen **1234		Liaison XL	CE/Hepatitis B Diagnostic Serology in the Immunocompetent(including Hep B in pregnancy)	N/A	PPC-PATH-MIC-67
	Detection of Hepatitis C Antibodies **1234		Liaison XL	CE/UK standards for Microbiology SMIV5	N/A	PPC-PATH-MIC-69
	Detection of HIV Ag/Ab **1234		Liaison XL	CE/UK standards for Microbiology SMIV11	N/A	PPC-PATH-MIC-70
	Detection of Measles IgG antibodies **1234		Liaison XL	CE/Irish immunisation guidelines	N/A	PPC-PATH-MIC-73
	Detection of Mumps IgG antibodies **1234		Liaison XL	CE/Irish immunisation guidelines	N/A	PPC-PATH-MIC-74
	Detection of Rubella IgG **1234		Liaison XL	CE/Irish immunisation guidelines/The UK policy on susceptibility screening in pregnancy.	n/a	PPC-PATH-MIC-71
	Detection of VZV IgG **1234		Liaison XL	CE/Irish immunisation guidelines	N/A	PPC-PATH-MIC-72
1018 Detection of antibody response to	Detection of Legionella and	Urine	Manual	CE/UK standards for Microbiology SMI B41	N/A	TM-A-MU001

infection using appropriate CE marked commercial techniques - .05 Immunochromatographic methods, using CE marked commercial systems	Pneumococcal urinary antigens **1234					
	Detection of Respiratory Syncytial Virus (RSV) **1234	Nasopharyngeal aspirate	Manual	CE/UK standards for Microbiology SMI B57	N/A	TM-A-MT004
	Investigations of faeces for viral agents **1234	Faeces, rectal swab	Manual	CE/UK standards for Microbiology SMI B30	N/A	TM-A-MF004
1018 Detection of antibody response to infection using appropriate CE marked commercial techniques - .07 Chemiluminescent microparticle immunoassay, using CE marked commercial systems	Detection of antibodies to Hepatitis B e antigen	Blood/Serum	Liaison XL	CE/UK SMI Investigation of Hepatitis B Infection	N/A	PPC-PATH-MIC-89
	Detection of antibody to CMV IgG **1234		Abbott Alinity i	CE/UK Standards for Microbiological Investigations - CMV Serology	N/A	TM-A-MS034
	Detection of antibody to CMV IgM **1234		Abbott Alinity i	CE/UK Standards for Microbiological Investigations - CMV Serology	N/A	TM-A-MS035
	Detection of antibody to EBV EBNA IgG **1234		Abbott Alinity i	CE/UK standards for Microbiology SMI V28	N/A	PPC-PATH-MIC-11
	Detection of antibody to EBV VCA IgG **1234		Abbott Alinity i	CE/UK standards for Microbiology SMI V29	N/A	PPC-PATH-MIC-13

Detection of antibody to EBV VCA IgM **1234	Abbott Alinity i	CE/UK standards for Microbiology SMI V28	N/A	PPC-PATH-MIC-12
Detection of antibody to Hepatitis A IgG **1234	Abbott Alinity i	CE/Irish immunisation guidelines	N/A	TM-A-MS022
Detection of antibody to Hepatitis A IgM **1234	Abbott Alinity i	CE/UK standards for Microbiology SMI V27	N/A	TM-A-MS025
Detection of antibody to Hepatitis B core antigen **1234	Abbott Alinity i	CE/UK standards for Microbiology SMI V4	N/A	TM-A-MS018
Detection of antibody to Hepatitis B sAg **1234	Abbott Alinity i	CE/UK standards for Microbiology SMI V6	N/A	TM-A-MS020
Detection of antibody to Hepatitis BsAg antibody **1234	Abbott Alinity i	CE/Irish immunisation guidelines	N/A	TM-A-MS026
Detection of antibody to Hepatitis C antibody **1234	Abbott Alinity i	CE/UK standards for Microbiology SMI V5	N/A	TM-A-MS021
Detection of antibody to Hepatitis C virus antigen **1234	Abbott Architect	CE/ Investigation of Hepatitis C infection by Antibody Testing or Combined antigen/Antibody Assay	N/A	TM-A-MS029
Detection of antibody to HIV Ag/Ab **1234	Abbott Alinity i	CE/UK standards for Microbiology SMI V11	N/A	TM-A-MS023
Detection of antibody to Rubella IgG **1234	Abbott Alinity i	CE/Immunisation guidelines in Ireland/The UK policy on Rubella susceptibility screening in pregnancy	N/A	TM-A-MS024
Detection of antibody to Toxoplasma IgG **1234	Abbott Alinity i	CE/QSOP 59	N/A	TM-A-MS031
Detection of antibody to Toxoplasma IgM **1234	Abbott Alinity i	CE/QSOP 59	N/A	TM-A-MS032

	Detection of anti-Hepatitis B core IgM		Liaison XL	CE/UK SMI Investigation of Hepatitis B infection	N/A	PPC-PATH-MIC-89
	Detection of anti-Hepatitis B core total		Liaison XL	CE/UK SMI Investigation of Hepatitis B Infection	N/A	PPC-PATH-MIC-89
	Detection of Hepatitis B e antigen		Liaison XL	CE/UK SMI Investigation of Hepatitis B Infection	N/A	PPC-PATH-MIC-89
	Detection of IGRAs using Quantiferon TB Gold plus analysis **1234		Liaison XL	CE	N/A	PPC-PATH-MIC-98
1024 Preservation of microbial cultures	Antimicrobial resistance testing **1234	Bacterial cultures	Manual	EUCAST	N/A	TM-A-MG001
	Investigation of abscesses, post-operative wounds and deep seated wound infections **1234	Deep seated wound swabs, pus, abscess swab, bile, drain fluids	Manual	UK standards for Microbiology SMI B14, B15	N/A	TM-A-MW003
	Investigation of blood cultures **1234	Blood	Manual	UK standards for Microbiology SMI B37	N/A	TM-A-MB001
	Investigation of CSF **1234	CSF	Manual	UK standards for Microbiology SMI B27	N/A	TM-A-MB002
	Investigation of ear, nose, throat and related specimens **1234	Throat, nasal swab, ear swab, mouth/tongue swab, antrum washout, middle ear effusion, endotracheal tube	Manual	UK standards for Microbiology SMI B9, B5, B1, B4, B6	N/A	TM-A-MW001
	Investigation of eye swabs, contact lens and fluid, intraocular fluids and corneal scrapings **1234	Eye swab, conjunctival swab, corneal ulcer swab, orbital cellulitis swab, eyelid swab, lacrimal swab/stone, contact lens fluid, corneal scrapings, intraocular fluid, aqueous humour, vitreous humour, canalicular pus	Manual	UK standards for Microbiology SMI B2, B31, B52	N/A	TM-A-MW004

Investigation of faeces specimens for bacterial pathogens **1234	Faeces, rectal swab	Manual	UK standards for Microbiology SMI B30	N/A	TM-A-MF001
Investigation of fluids from normally sterile sites **1234	Joint fluid, amniotic fluid, ascitic fluid, bursa fluid, pericardial fluid, peritoneal fluid, synovial fluid, CAPD fluid, hydrocele fluid	Manual	UK standards for Microbiology SMI B26	N/A	TM-A-MB003
Investigation of Genital Tract and associated specimens **1234	High vaginal swab, low vaginal swab, vulval/labial swab, endocervical/cervical swab, bartholins cyst swab, penile swab, sub prepuce/meatus swab, urethral swab, genital ulcer swab, rectal swab, bartholins gland aspirate, fallopian tube aspirate, pouch of douglas aspirate, tubo-ovarian abscess, intra-uterine device	Manual	UK standards for Microbiology SMI B28	N/A	TM-A-MV001
Investigation of infection screen swabs from neonates **1234	Throat/oral swab, ear swab, eye swab, nasal swab, umbilical swab, axilla swab, groin swab, perineal swab	Manual	UK standards for Microbiology SMI B2, B11	N/A	TM-A-MW007
Investigation of specimens for Mycobacterium species	Sputum, bronchoalveolar lavage, bronchial aspirate, bronchial washings, early morning urine, CSF, blood, bone marrow, pleural/pericardial fluid, pus, tissue,	Manual	UK standards for Microbiology SMI B40	N/A	TM-A-MT002

	gastric lavage, CAPD fluid, swabs				
Investigation of specimens for superficial mycoses **1234	Hair, nail, skin	Manual	UK standards for Microbiology SMI B39	N/A	TM-A-MW008
Investigation of specimens of Sputum, bronchoalveolar lavage and associated specimens **1234	Sputum, bronchoalveolar lavage, bronchial aspirate, bronchial washings, cough swab, nasopharyngeal swab/aspirate, pleural fluid	Manual	UK standards for Microbiology SMI B57	N/A	TM-A-MT001
Investigation of superficial wound swabs and intravascular cannulae **1234	Wound swab, skin swab, infected cyst swab, ulcer swab, line/catheter tips, exit site swab	Manual	UK standards for Microbiology SMI B11, B20	N/A	TM-A-MW002
Investigation of tissues, biopsies, bone and prosthetic devices **1234	Tissue specimens, biopsy specimens, prosthetic devices, products of conception	Manual	UK standards for Microbiology SMI B17, B42, B44	N/A	TM-A-MW006
Investigation of urine specimens **1234	Urine	Manual	UK standards for Microbiology SMI B41	N/A	TM-A-MU001, PPC-PATH-MIC-22
Screening of specimens and management of isolates for carbapenem resistance in Enterobacteriales **1234	Rectal swab, faeces, urine, wound swab, tip, isolates	Manual	UK standards for Microbiology SMI B60	N/A	TM-A-MM003
Screening of specimens for Methicillin resistant Staphylococcus aureus MRSA **1234	Nasal swab, throat swab, perineal swab, urine, sputum, wound swab	Manual	UK standards for Microbiology SMI B29	N/A	TM-A-MM001

	Screening of specimens for Vancomycin resistant Enterococci **1234	Rectal swab, perineal swab, faeces, urine, wound swab	Manual	Guidelines for control and prevention of multi-drug resistant organisms (MDRO) excluding MRSA in the Healthcare Setting	N/A	TM-A-MM002
1024 Preservation of microbial cultures - .03 Microscopic examination for fungi	Investigation of faeces specimens for bacterial pathogens **1234	Faeces, rectal swab	Microscopy	UK standards for Microbiology SMI B30	N/A	TM-A-MF001

The laboratory has been awarded flexible scope in the scope classifications as noted in the scope document and in accordance with the laboratory's approved and documented procedures.

Note 1 - Range may be extended for the test

Note 2 – New parameters/tests may be added

Note 3 – New matrices may be added

Note 4 – Changes to equipment/kits where the underlying methodology does not change

For further details please refer to the laboratory's 'List of flexible scope changes', available directly from the laboratory.