

Schedule of Accreditation



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Trading As	Childrens Health Ireland at Crumlin
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Accreditation Standard	ISO 15189
Date Initially Awarded	09/09/2014
Scope Classification	Microbiology and virology
Scope Classification	Haematology
Scope Classification	Histopathology and cytopathology
Services available to the public ¹	No

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 Department of Paediatric Laboratory Medicine	Crumlin, Dublin, D12 N512

Scope of Accreditation

Department of Paediatric Laboratory Medicine

Haematology

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	Full Blood Count	Blood / Bone Marrow /Fluids	Impedance/ Optical /Flow Cytometry	Sysmex XN20	CE	LP-HAE-XN20
1030 Haematology - .02 Visual examination of blood films	Blood Film microscopy	Blood/Body Fluid	Microscopy	Microscope	CE	LP-HAE-BFILM
1030 Haematology - .03 Erythrocyte sedimentation rate	Erythrocyte Sedimentation Rate (ESR)	Blood	Photometric reading	Sarstedt SediPLUS	CE	LP-HAE-SEDIPLUS
1030 Haematology - .05 Automated differential leucocyte counts	Automated Differential leucocyte count		Flow Cytometry	Sysmex XN20	CE	LP-HAE-XN20
1030 Haematology - .06 Automated reticulocyte counts	Automated Reticulocyte count		Flow Cytometry	Sysmex XN20	CE	LP-HAE-XN20
1030 Haematology - .08 Blood film examinations involving special staining procedures	Blood cell location on DI-60 Sysmex Digital System		Automated cell location on DI-60 microscope	NA	CE	LP-HAE-DI60
1030 Haematology - .09 Examination of malarial parasites	Parasite Film examination		Microscopy	Microscope	CE	LP-HAE-MALARIA
	Rapid malaria Kit (RDT) - Carestart RAPYDTEST Malaria		Monoclonal Antibody Rapid Kit against PLDH/HRP2	Rapid Kit	CE	LP-HAE-MALARIA, QP-HAE-MALCARESTART
1030 Haematology - .20 Bone marrow examination	Bone marrow examination	Bone Marrow	Microscopy	Microscope	CE	LP-HAE-BME
1030 Haematology - .30 Tests for haemoglobin variants and thalassaemia	Haemoglobinopathy Screening	Blood	Capillary Electrophoresis	Sebia Capillarys 2	CE	LP-HAE-CAPILLARYS
			HPLC (High Performance Liquid Chromatography)	BioRad Variant II	CE	LP-HAE-VARIANT2
			Qualitative IEF	Electrophoresis gel system	CE	LP-HAE-HBRESOLVE

	Neonatal haemoglobinopathy Screening	Blood/Cord Blood/ Blood Spot	Capillary Electrophoresis	Sebia Capillarys 2	CE	LP-HAE-CAPILLARYS
	Solubility testing for Haemoglobin S	Blood	Qualitative Solubility screen	Manual	CE	LP-HAE-STREKSDX
1030 Haematology - .35 Tests to investigate haemolysis	Staining procedure for HbH / Heinz body inclusions		Staining/Microscopy	Microscope	CE	LP-HAE-HBH
1030 Haematology - .36 Screening tests for G6Pd	G6PDH Deficiency Screening		Qualitative Visual Fluorescence	Manual	CE	LP-HAE-G6PDSCREEN
1030 Haematology - .41 General haemostasis related tests	Activated Partial Thromboplastin Time (APTT)	Blood/Plasma	Manual-semi quantitative	Manual/waterbath	CE	LP-HAE-ManAPTT
			Photo Optical	ACL Top 500	CE	LP-HAE-ACLCoagS
	Activated Partial Thromboplastin Time Ratio (APTR)		Photo Optical	ACL Top 500	CE	LP-HAE-ACLCoagS
	Activated Protein C Resistance (APCR)		Photo Optical	ACL Top 500	CE	LP-HAE-ACLPCR
	Anti Factor Xa		Photo Optical	ACL Top 500	CE	LP-HAE-ACLAXA
	Antithrombin		Photo Optical	ACL Top 500	CE	LP-HAE-ACLATIII
	APTT Correction test		Photo Optical	ACL Top 500	CE	LP-HAE-ACLCorr
	D-Dimer		Photo Optical	ACL Top 500	CE	LP-HAE-ACLDDimer
	Factor II (FII)		Photo Optical	ACL Top 500	CE	LP-HAE-ACLEFS
	Factor IX (FIX)		Photo Optical	ACL Top 500	CE	LP-HAE-ACLIFS
	Factor IX Inhibitor		Photo Optical/semi-quantitative	ACL Top 500	CE	LP-HAE-F9Inhib
	Factor V (FV)		Photo Optical	ACL Top 500	CE	LP-HAE-ACLEFS
	Factor VII (FVII)		Photo Optical	ACL Top 500	CE	LP-HAE-ACLEFS
	Factor VIII Inhibitor		Photo Optical/semi-quantitative	ACL Top 500	CE	LP-HAE-F8Inhib
	Factor VIII, 1-stage (FVIII clot)		Photo Optical	ACL Top 500	CE	LP-HAE-ACLIFS
	Factor VIII, chromogenic (FVIIIChr)		Photo Optical	ACL Top 500	CE	LP-HAE-ACLChroF8
	Factor X (FX)		Photo Optical	ACL Top 500	CE	LP-HAE-ACLEFS
	Factor XI (FXI)		Photo Optical	ACL Top 500	CE	LP-HAE-ACLIFS
	Factor XII (FXII)		Photo Optical	ACL Top 500	CE	LP-HAE-ACLIFS
	Fibrinogen (Clauss)		Photo Optical	ACL Top 500	CE	LP-HAE-ACLCoagS
	International Normalised Ratio (INR)		Photo Optical	ACL Top 500	CE	LP-HAE-ACLCoagS
	Lupus Anticoagulant		Photo Optical	ACL Top 500	CE	LP-HAE-ACLLA
	Protein C		Photo Optical	ACL Top 500	CE	LP-HAE-ACLPC
	Protein S (Free)		Photo Optical	ACL Top 500	CE	LP-HAE-ACLFPS
Protein S Activity	Photo Optical	ACL Top 500	CE	LP-HAE-ACLPPS		
Prothrombin Time (PT)	Manual-semi quantitative	Manual /waterbath	CE	LP-HAE-ManPT		
	Photo Optical	ACL Top 500	CE	LP-HAE-ACLCoagS		

	PT Correction test		Photo Optical	ACL Top 500	CE	LP-HAE-ACLCorr
	Reptilase		Photo Optical	ACL Top 500	CE	LP-HAE-ACLRep
	Thrombin Time (TT)		Photo Optical	ACL Top 500	CE	LP-HAE-ACLCoagS
	Von Willebrand Factor antigen (VWF:ag)		Photo Optical	ACL Top 500	CE	LP-HAE-ACLVWF
1030 Haematology - .45 Tests of platelet function	Platelet Aggregation Studies		Photo Optical	ACL Top 500	CE	LP-HAE-RIPA LP-HAE-PFT
1030 Haematology - .57 Screening test for infectious mononucleosis	Infectious Mononucleosis Screen	Blood	Immuno-Chromatic	Manual Kit	CE	LP-HAE-ACCUSAYMONO
1030 Haematology - .70 Immunophenotyping	Acute Leukaemia Flow Cytometry Panels	Blood/ Bone Marrow /Fluids / CSF	Flow Cytometry	BD FacsCANTO II, Calibur, Sample Prep Assistant III	CE	LP-HAE-LeukCANTO
	CD34 stem cell count	Blood	Flow Cytometry	BD FacsCANTO II, Calibur, Sample Prep Assistant III	CE	LP-HAE-CD34STEM
	Chronic Leukaemia/Lymphoma Typing	Blood /Bone marrow / Fluids	Flow Cytometry	BD FacsCANTO II, Calibur, Sample Prep Assistant III	CE	LP-HAE-LYMPHPHEN
	Eosin-5-Maleimide Screening for Hereditary Spherocytosis	Blood	Flow Cytometry	BD FacsCANTO II, Calibur, Sample Prep Assistant III	In house based onstandard method	LP-HAE-EMA
	Immunophenotyping	Blood, Bone Marrow, Body Fluids	Immunoflourescence	BD Sample Prep System 111	CE	LP-HAE-BDSPA111, MP-HAE-SPA111, QP-HAE-METHODVALSPA111
	Immunophenotyping EMA	Blood,	Immunoflourescence	BD FACS Lyricflow, BD FACS Canto 11	In house assay	MP-HAE-VPMLYRIC, MP-HAE-ValidiLyric, LP-HAE-EMA HS
	Immunophenotyping PNH	Blood, Bone Marrow	Immunoflourescence	BD FACS Lyricflow, BD FACS Canto 11	CE	MP-HAE-VPMLYRIC, MP-HAE-ValidiLyric, LP-HAE-PNH
	PNH Screening	Blood / Bone Marrow	Flow Cytometry	BD FacsCANTO II, Calibur, Sample Prep Assistant III	CE	LP-HAE-PNH
1030 Haematology - .99 Miscellaneous tests	Malaria Rapid Detection - NOW kit	Blood	Antigen detection	Manual Kit	CE	LP-HAE-NOWMALKIT
	Malaria Rapid Detection OPTIMAL kit		Immuno-Chromatic (pLDH)	Manual Kit	CE	LP-HAE-OPTIMALKIT
	Manual Cell count	CSF	Staining/Microscopy	manual	CE	LP-HAE-CSF
	Rhematoid Factor Screening	Blood/Serum	Latex Agglutination	Qualitative kit	CE	LP-HAE-RF

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	Cut up,Tissue Processing, Embedding ,Microtomy, Automated Haematoxylin and Eosin Staining, Coverslipping	Human Tissue	ASP300 ,Leica IPC, Leica E1140H, Leica EG1140c, Leica RM2165, Jung Biocut 2035,Leica Autostainer XL, Leica CV5030	Based on Standard method	N/A	LP-HIS-SpRecCutUp,L P-HIS-Decal,LP-HIS-TissProc,LP-HIS-TissEmb,LP-HIS-Microtomy,LP-HIS-H&E
	Tissue Processing	Fixed specimens	Histocore Pearl Tissue Processor	CE marked	NA	LP-HIS-LeicaHistocore Pearl
1051 Histopathology - .02 Processing fresh specimens for frozen section examination	Cut-up,Frozen section cryotomy and rapid Haematoxylin and Eosin Staining,	Human Tissue	Leica CM1900,Leica Autostainer XL,	Based on Standard method	N/A	LP-HIS-SpRecCutUp,L P-HIS-Microtomy,LP-HIS-LeicaCryostat
1051 Histopathology - .03 Histochemistry	Alcian Blue Stain, Alcian Blue/PAS stain, Congo Red stain, Fouchet Stain, Gram Stain, Grocott Stain, Giemsa Stain, Haematoxylin VanGieson Stain, Masson Trichrome Stain, Long ZN Stain,Masson Fontana Stain, Miller Elastic Stain, Martius Scarlet Blue stain, Oil Red O Stain, PAS/DPAS stain,Perls Stain,Reticulin Gordon and Sweets Stain,Rhodanine Stain,Von Kossa Stain, Ziehl Neelsen stain		Manual technique ,Leica Autostainer XL	Based on Standard Method	N/A	LP-HIS-AlcianBlue,LP-HIS-ALBPAS,LP-HIS-CongoRedlp-hisFouchet,LP-HIS-GiemsaStain,L P-HIS-GRAM,LP-HIS-Grocott,LP-HIS-HVG,LP-HIS-LZN,LP-HIS-MSB,LP-HIS-MasFon,LP-HIS-MasTric,LP-HIS-Millers,LP-HIS-ORO,LP-HIS-PAS/DPAS,LP-HIS-PERLS,LP-HIS-RETICULIN,L P-HIS-Rhodanine,LP-HIS-

						VonKossa,LP-HIS-ZN	
1051 Histopathology - .04 Histological interpretation- medical renal pathology	Diagnostic Interpretation and Reporting of Human tissue Pathology: Specialist area included: Paediatric Pathology			N/A	N/A	N/A	MP-HIS- Reporting, MP-HIS- CritDiagCom,L P-HIS- WinPath
1051 Histopathology - .09 Immunohistoche mistry	Smooth Muscle Actin, Adenovirus, ALK-1, Alpha feto Protein, BCL-2, Calretinin, CD1A,CD3,CD5,CD10,CD15,CD20,CD30,CD31,CD34,CD45,CD56,CD61, CD68,CD79,CD99,CD117, Chromogranin,CK7, AEI/AE3 CK, CMV, D2-40, Desmin,EMA, FACTOR X111A, GFAP, Glut-1, Glycophorin, hH.Pylori, Herpes Simplex, HMB45, INI BAF-47, ki-67, MUM-1, Myleoperoxidase, Myogenin, PLAP, PAX-5, Phox2B, P53, S100,SynaptoPhysin, TDT, TLE, Vimentin, WT1 NTER,WT1 CTER			Automated Technique ,Ventana BenchMark XT	Based on Standard method	Observed staining reaction	LP-HIS- IMMPRO, LP- HIS- BenchMarkXT, LF-HIS- AntiSpec
1051 Histopathology - .13 Molecular testing	Chromosomal translocation analysis for the following: t(2:13)PAX3-FKHR, t(1:13) PAX7-FKHR, t(11:22)EWSFLi1/2,t(21:22) EWSESG,t(X:18)(SYT- SSX1,SYT-SSX2,SYT-SSX-4),t(11:22)EWS-WT1,t(12:22) ETV6-NTRK			Step One Plus ,Veriti Thermal Cycler, Qubit Fluorometer	Based on Standard method	Presence/Abs ence of product	LP-HIS-RT- PCR,LP-HIS- RTPCRparaffi n
1052 Cytopathology - .05 Immunocytoche mistry	B Cor Immunohistochemistry	Paraffin section		IHC antibody	CE marked antibody	IHC	LP-HIS- ImmPro16
	Langerin Immunohistochemistry			IHC antibody	CE marked antibody	IHC	LP-HIS- ImmPro16

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
1011 Macroscopic examination and description	Macroscopic examination and description of specimens	Respiratory samples, Fluids, Faeces, CSF	Visual	Based on standard method		LP-MIC-SPUTUM, LP-MIC-FLUID, LP-MIC-FAECES, LP-MIC-CSF, LP-MIC-PDF, LP-MIC-SinusAsp, LP-MIC-Peritonitis, LP-MIC-BAL, LP-MIC-CFSputa, LP-MIC-NPA
1012 Preparation of films on glass slides followed by microscopic examination with or without fixation and staining with dyes as required - .01 Microscopic examination for general bacteriology purposes (including enumeration and description of human cells)	Cell counts & Differential	Urine, peritoneal dialysis fluid, CSF	Microscopy	Based on standard method		LP-MIC-URINE, LP-MIC-PDF, LP-MIC-CSF
	Gram staining	Tissue, Fluids, CSF, BAL, positive blood cultures, sputum, vaginal swab, NPA	Staining & Microscopy	Based on standard method		LP-MIC-TISSUE, LP-MIC-FLUID, LP-MIC-CSF, LP-MIC-BAL, LP-MIC-BC, LP-MIC-SPUTUM, LP-MIC-GRAM, LP-MIC-Genital, LP-MIC-PDF, LP-MIC-SinusAsp, LP-MIC-Peritonitis, LP-MIC-Bile, LP-MIC-NPA
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	Cryptosporidium, modified ZN	Faeces	Staining & Microscopy	Based on standard method		LP-MIC-FAECES, LP-MIC-PARASITE
	Ova & Parasites	Urine, Faeces, bile, duodenal/jejunal aspirate, liver&spleen cyst/fluid, sputum, BAL	Concentration & Microscopy	CE		LP-MIC-URINE, LP-MIC-FAECES, LP-MIC-PARASITE, LP-MIC-Bile
1012 Preparation of films on glass slides followed by microscopic examination with or without fixation and	ZN	CF Sputa, BALs, tissue, fluids, CSF	Concentration , Staining & Microscopy	Based on standard method		LP-MIC-CFSPUTA, LP-MIC-BAL, LP-MIC-FLUID, LP-MIC-TISSUE, LP-MIC-CSF

staining with dyes as required - .04 Microscopic examination for mycobacteria						
1013 Culture of organisms in liquid or agar based culture media with visual or instrument monitoring for growth - .01 Culture of general bacteria	Allograft bone	bone	Agar and enrichment culture	Based on standard method		LP-MIC-BoneAllo
	Blood culture	Blood	BacT/ALERT 3D, automated continuously monitored liquid culture, agar & enrichment culture	CE/based on standard method		LP-MIC-BacT/ALERT, LP-MIC-BC
	Culture of CSF specimens	CSF	Culture	Based on standard method		LP-MIC-CSF, LP-MIC-CSFShunt
	Culture of faecal specimens	Faeces	Agar and enrichment culture	Based on standard method		LP-MIC-FAECES, LP-MIC-SALMONELL, LP-MIC-SHIGELLA, LP-MIC-CAMP, LP-MIC-YERSINIA, LP-MIC-VIBRIO, LP-MIC-VTEC, LP-MIC-F-CDT
	Culture of genital tract	Genital tract swab, high vaginal swab, cervical swab, urethral swab, IUCDs, rectal swab, throat swab, fluid, pus	Culture	Based on standard method		LP-MIC-GENITAL
	Culture of respiratory specimens for bacterial pathogens	Respiratory samples	Culture	Based on standard method		LP-MIC-SPUTUM, LP-MIC-CFSPUTA, LP-MIC-BAL, LP-MIC-NPA
	Culture of specimens from superficial & deep seated infections	Wounds, tissue, fluid, swabs, IV tips	BacT/ALERT 3D, agar and enrichment culture	CE, based on standard method		LP-MIC-IVCANNULAE, LP-MIC-WOU-DEEP, LP-MIC-WOUSUP, LP-MIC-TISSUE, LP-MIC-FLUID, LP-MIC-EAR, LP-MIC-EYE, LP-MIC-GASASP, LP-MIC-MOUTH, LP-MIC-NASAL, LP-MIC-THROAT, LP-MIC-HOMOGRAFT, LP-MIC-PDF, LP-MIC-BacT/ALERT, LP-MIC-Peritonitis, LP-MIC-SinusAsp, LP-MIC-Bile.
	Culture of urine specimens	Urine	Culture	Based on standard method		LP-MIC-URINE
	H. pylori	Gastric Biopsy	Culture	Based on standard method		LP-MIC-HP
	Homograft investigation	Tissue, fluid	BacT/ALERT 3D, automated continuously monitored liquid culture, agar & enrichment culture	CE/based on standard method		LP-MIC-Homograft, LP-MIC-BacT/ALERT
Screening of specimens for MDRO	Faeces, urine, swabs	Agar and enrichment culture	Based on standard method		LP-MIC-ESBL, LP-MIC-CRE, LP-MIC-ECC, LP-MIC-URINE, LP-MIC-FAECES, LP-MIC-MRSA	

	Transfusion reaction	Blood pack, platelets, blood products	BacT/ALERT 3D, automated continuously monitored liquid culture, agar & enrichment culture	CE/based on standard method		LP-MIC-TransReac, LP-MIC-BacT/ALERT
1013 Culture of organisms in liquid or agar based culture media with visual or instrument monitoring for growth - .02 Culture of fungi	Culture of fungi	Skin, Nails, hair, respiratory samples, CSF, tissue, fluids, swabs, urines	Culture	Based on standard method		LP-MIC-FUNGI
1014 Detection of bacterial, parasite, viral or fungal antigens using specific antibodies and appropriate techniques - .01 Slide agglutination,	Salmonella & shigella typing, E.coli, Bordetella, Neisseria, Haemophilus, Vibrio	Isolate	Slide agglutination	Based on standard method		LP-MIC-SALMONELL, LP-MIC-SHIGELLA, LP-MIC-VTEC, LP-MIC-BORDETELLASPECIES, LP-MIC-MENINGOAS, LP-MIC-NEISSERIA, LP-MIC-Haemophil, LP-MIC-Vibrio
1014 Detection of bacterial, parasite, viral or fungal antigens using specific antibodies and appropriate techniques - .02 Particle agglutination	Mastalex		Particle agglutination	CE		LP-MIC-MASTLEX
	Staphaurex		Particle agglutination	CE		LP-MIC-STAPHX
	Streptococcal Grouping Latex kit		Particle agglutination	CE		LP-MIC-STREPTX
1014 Detection of bacterial, parasite, viral or fungal antigens using specific antibodies and appropriate techniques - .03 Enzyme immunoassay,	Amplified IDEIA Hp STAR	Faeces	Biotek Automated Plate Reader ELX800, enzyme immunoassay	CE		LP-MIC-HPANTI
	BIO-RAD Platelia™ Aspergillus EIA	Serum	Biotek Automated Plate Reader ELX800, enzyme immunoassay	CE		LP-MIC-GALACT
	Techlab C.Diff Quik Chek Complete	Faeces, isolate	Enzyme immunoassay	CE		LP-MIC-F-CDT
	Wampole™ C.Diff Quik Chek		Enzyme immunoassay	CE		LP-MIC-F-CDT
1014 Detection of bacterial, parasite, viral or fungal antigens using specific antibodies and appropriate techniques - .04 Immunochromatographic methods,	BinaxNOW RSV kit	Nasopharyngeal aspirates/swabs	Immunochromatographic	CE		LP-MIC-RSVNOW
	bioNexia®FOBplus	Faeces	Immunochromatographic	CE		LP-MIC-F-FOB
	RIDA®QUICK Rotavirus/Adenovirus		Immunochromatographic	CE		LP-MIC-RotaAdeno, LP-MIC-F-VIR
1015 Detection and/or identification of bacterial, parasite, fungal and viral nucleic acids - .03 Nucleic acid amplification tests, CE marked commercial systems	CRE	Isolate, stool sample	Cepheid GeneXpert	CE marked	NA	LP-MIC-GeneXpert
			Cepheid GeneXpert	CE marked	NA	LP-MIC-GeneXpert

	EntericBio Gastro Panel 2	Faeces	EpMotion 5070 and PCR Thermal Cycler, Amplification and detection of target DNA	CE		LP-MIC-EBIOGP2
	EPLEX Blood culture bacterial panels	Positive blood culture	EPLEX	CE	No targets detected/target detected (specific to test)	LP-MIC-Eplex, QP-MIC-VALEPLEXBC
	RSV, Influenzae A+B	NPA	Cepheid GeneXpert	CE marked	NA	LP-MIC-GeneXpert
			Cepheid GeneXpert	CE marked	NA	LP-MIC-GeneXpert
1015 Detection and/or identification of bacterial, parasite, fungal and viral nucleic acids - .04 Nucleic acid amplification tests, in house developed assays	Aspergillus PCR	Plasma, CSF, BAL	QIASymphony, QIAgility, AB7500 realtime PCR instrument . Extraction and amplification of target DNA	In house developed		LP-MIC-EXTR-ASP, LP-MIC-PCR-ASP
	Bordetella bronchiseptica	Nasopharyngeal aspirates/swabs, BAL, pleural fluid	QIASymphony, QIAgility, AB7500 real time PCR machine/extraction and amplification of targets DNA and RNA. In house developed	In house developed	Negative/Positive for Bordatella bronchiseptica DNA	LP-MIC-EXTR-BDMYC, LP-MIC-PCR-BORDSP, LP-MIC-PCR-ISOBOR,
	Bordetella holmesii		QIASymphony, QIAgility, AB7500 real time PCR machine/extraction and amplification of targets DNA and RNA. In house developed	In house developed	Negative/Positive for Bordatella holmesii DNA	LP-MIC-EXTR-BDMYC, LP-MIC-PCR-BORDSP, LP-MIC-PCR-ISOBOR,
	Bordetella pertussis/parapertussis		QIASymphony, QIAgility, QuantStudio6 Flex/AB7500 real time PCR machine/extraction and amplification of targets DNA and RNA. In house developed	In house developed	Negative/Positive for Bordatella pertussis/parapertussis DNA	LP-MIC-EXTR-BDMYC, LP-MIC-PCR-BORDSP, LP-MIC-PCR-QUANT6, QP-MIC-VAL-QUANT6, QF-MIC-VALPER
	Gastrovirus PCR	Stool	QIASymphony, QIAgility, QuantStudio6 Flex real time PCR machine/extraction and amplification of targets DNA and RNA. In house developed	In house developed	No target detected/detected for each target	LP-MIC-PCR-QUANT6, LP-MIC-GASTROV, QP-MIC-VALGASTROV, QP-MIC-QUANT6
	Pseudomonas aeruginosa	CF sputum, CF throat swabs, BAL	QIASymphony, QIAgility, QuantStudio6 Flex/AB7500 real time PCR machine/extraction and amplification of targets DNA and RNA. In house developed	In house developed	Negative/Positive for Pseudomonas aeruginosa DNA	LP-MIC-EXTR-PAER, LP-MIC-PCR-PAER, LP-MIC-PCR-QUANT6, QP-MIC-VAL-QUANT6, QF-MIC-VALPAER
1016 Identification of cultured bacteria and fungi using non-nucleic acid based techniques - .01 Biochemical methods , CE marked commercial systems	API 20E	Isolate	Fermentation, decarboxylation etc	CE		LP-MIC-API-20E
	API 20NE		Fermentation, decarboxylation etc	CE		LP-MIC-API-20NE
	API Coryne		Fermentation, decarboxylation etc	CE		LP-MIC-API-Coryn
	API NH		Fermentation, decarboxylation etc	CE		LP-MIC-API-NH

	API Strep		Fermentation, decarboxylation etc	CE		LP-MIC-Api Strep
	Rapid BLUE CARB Kit: Carbapenemases		Hydrolysis of imipenem	CE		LP-MIC-CRE
	Vitek 2XL Gram Positive and Gram Negative ID	Isolate	Vitek 2 XL	CE marked	NA	LP-MIC-Vitek2XL
	X and V disks	Isolate	Vitek 2 XL	CE marked	NA	LP-MIC-Vitek2XL
			Growth factor	Based on standard method		LP-MIC- XV
1016 Identification of cultured bacteria and fungi using non-nucleic acid based techniques - .03 Identification of fungi by microscopic morphology	Lactofuscin		Microscopy	Based on standard method		LP-MIC-Fungi
1016 Identification of cultured bacteria and fungi using non-nucleic acid based techniques - .04 Identification using MALDI-TOF Spectroscopy	MALDI-TOF Spectroscopy		VITEK MS, mass spectrophotometry	CE		LP-MIC-VitekMS
1017 Measurement of antimicrobial activity and application of clinical interpretive criteria to general bacteria (rapidly growing aerobes) - .01 Anaerobes	Minimum inhibitory concentration		Minimum inhibitory strip diffusion	Based on standard method		LP-MIC-AnaSens
1017 Measurement of antimicrobial activity and application of clinical interpretive criteria to general bacteria (rapidly growing aerobes) - .03 Yeasts			VITEK 2XL, Broth MIC	Based on standard method		LP-MIC-VITEK2XL, LP-MIC-SCS, LP-MIC-YEASTONE
1017 Measurement of antimicrobial activity and application of clinical interpretive criteria to general bacteria (rapidly growing aerobes) - .05 Other categories of organism (as specified)	AmpC Confirm Kit: AmpC Enterobacteriaceae		Disk diffusion	CE		LP-MIC-ESBL
	Antimicrobial susceptibility testing		Disk diffusion	Based on standard method		LP-MIC-AMUST
	Extended B Lactam ID Discs		VITEK 2XL, Broth MIC	CE		LP-MIC-VITEK2XL, LP-MIC-SCS
	KPC, MBL and OXA-48 Confirm Kit: Carbapenemases		Disk diffusion	CE		LP-MIC-ESBL
	Minimum inhibitory concentration		Disk diffusion	CE		LP-MIC-CRE
			Minimum inhibitory strip diffusion	Based on standard method		LP-MIC-Etest, LP-MIC-AMUST
1018 Detection of antibody response to	Antistreptolysin O or ASO antibody test	Serum	Particle agglutination	CE marked	NA	LP-MIC-HUMANEXASO

infection using appropriate CE marked commercial techniques - .01 Particle agglutination, using CE marked commercial systems						
			Particle agglutination	CE marked	NA	LP-MIC-HUMANEXASO
1018 Detection of antibody response to infection using appropriate CE marked commercial techniques - .02 Enzyme immunoassay, using CE marked commercial systems	EUROIMMUN Anti-Bordetella pertussis toxin ELISA (IgG) antibody test kit		Biotek Automated Plate Reader ELX800, enzyme immunoassay	CE		LP-MIC-ELISAP
1024 Preservation of microbial cultures	Isolate storage on beads	isolates	Cryogenic storage of isolates	Based on standard method		LP-MIC-Beads
1025 Measurement of antimicrobial levels by immunological methods	Gentamicin	plasma, serum	Abbott ARCHITECT i2000SR, immunoassay	CE	00-10mg/L	LP-MIC-ARCHITECT
	Vancomycin		Abbott ARCHITECT i2000SR, immunoassay	CE	00-100mg/L	LP-MIC-ARCHITECT
1029 Miscellaneous - .99 Miscellaneous tests	CSF protein	CSF	Jenway 6300 spectrophotometer/Biochrom Libra S6 Spectrophotometer, Pyrogallol-red-molybdate colorimetric	CE	From 0.022g/L	LP-MIC-CSFPR
	Urinary Dipstick	urine	Visual	CE		LP-MIC-URINE