

Hospital Authority - Hong Kong East Cluster, Department of Clinical Pathology

醫院管理局-港島東聯網臨床病理部

ADDRESS : Pathology Block, Pamela Youde Nethersole Eastern Hospital, 3 Lok Man Road,
地址 Chai Wan, Hong Kong
香港柴灣樂民道三號，東區尤德夫人那打素醫院，病理學大樓

ENQUIRY : Ms April CHENG Yuk-wah
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CLIENTELE : Public and private hospitals and clinics
服務對象 公營及私營醫院和診所

Hospital Authority - Hong Kong East Cluster, Department of Clinical Pathology

醫院管理局-港島東聯網臨床病理部

ADDRESS :

地址

Main Facility

Pathology Block, Pamela Youde Nethersole Eastern Hospital, 3 Lok Man Road, Chai Wan, Hong Kong

香港柴灣樂民道三號，東區尤德夫人那打素醫院，病理學大樓

- (i) Histopathology Laboratory: 5/F, Pathology Block
- (ii) Cytopathology Laboratory: 6/F, Pathology Block
- (iii) Autopsy Service: LG2, Main Block
- (iv) Chemical Pathology Laboratory: 3/F, Pathology Block; 1/F, Main Block
- (v) Microbiology Laboratory: 4/F, Pathology Block
- (vi) Haematology Laboratory: 2/F, Pathology Block; 1/F, Main Block
- (vii) Blood Bank: 1/F, Main Block
- (viii) Molecular Laboratory: 1/F and 3/F, Pathology Block

Branch Facility

LG1, Ruttonjee & Tang Shiu Kin Hospitals, 266 Queen's Road East, Wan Chai, Hong Kong

香港灣仔皇后大道東266號，律敦治及鄧肇堅醫院，地庫一層

- (i) Rapid Response Laboratory and Blood Bank
- (ii) Mycobacteriology Laboratory

LABORATORY DIRECTOR

化驗所主管

: Pathologist Director 病理學主管:

Dr LAM Yiu-wing

林耀榮 醫生

MBBS (HKU), MRCP (UK), FRCPath (UK), FHKCPath, FHKAM (Pathology)

PATHOLOGIST IN CHARGE OF THE ACCREDITED DISCIPLINE

負責認可範疇的病理學專科醫生

: Anatomical Pathology 解剖病理學

Dr HIOE Fei 丘斐 醫生

(Full-time 全職)

Chemical Pathology 化學病理學

Dr POON Wing-tat 潘永達 醫生

(Full-time 全職)

Clinical Microbiology and Infection 臨床微生物學及傳染病

Dr LEE Rodney Allan

(Full-time 全職)

Haematology 血液學

Dr Rosalina IP Ka-ling 葉嘉玲 醫生

(Full-time 全職)

ACCREDITED TEST CATEGORY

認可測試類別

: Medical Testing 醫務化驗

Anatomical Pathology 解剖病理學

Chemical Pathology 化學病理學

Clinical Microbiology and Infection 臨床微生物學及傳染病

Haematology 血液學

Immunology 免疫學

Medical Genetics (Molecular Genetics) 醫學遺傳學(分子遺傳學)



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Autopsy Service: LG2, Main Block, PYNEH, 3 Lok Man Rd, Chai Wan, HK

香港柴灣樂民道三號東區尤德夫人那打素醫院, 地庫二層

MEDICAL TESTING

DISCIPLINE 專科範疇	TEST AREA OR SAMPLE TYPE 測試範圍或樣本種類	SPECIFIC EXAMINATION OR PROPERTY MEASURED 特定測試或量度的特性	METHOD OR TECHNIQUE USED 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Anatomical Pathology	Autopsy Adult, fetal and perinatal autopsy	Autopsy examination by H&E and special staining	Autopsy method and specimen preparation & handling: Method as documented in HC-OP-MAP Routine and special staining as in Histopathology: H&E staining: HC-OP-H&E, HC-OP-DISP Special staining: HC-OP-SPEC

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Anatomical Pathology Laboratory: 5/F, Pathology Block, PYNEH, 3 Lok Man Rd, Chai Wan, HK

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Anatomical Pathology (cont'd)	Gynaecological specimens	Gynaecological cytology examination by Papanicolaou staining	Specimen handling: HC-OP-SCH Autocyte Preparation System: HC-OP-SP Manual screening: HC-OP-SR Totalys SlidePrep Preparation System
	Non-gynaecological specimens	Non-gynaecological cytology examination by H&E, Papanicolaou and special staining	Specimen handling and preparation: HC-OP-SCH HC-OP-SP Haematoxylin and Eosin (H&E) stain: HC-OP-SRP Papanicolaou stain: HC-OP-SRP Special staining (manual): Method as documented in HC-OP-SPEC Eosinophil by Papanicolaou stain Haemosiderin by Perls' Prussian Blue Fat-laden macrophages by Oil Red O Urate crystals by polarization microscopy Acid-fast bacilli by Ziehl-Neelsen Fungi by Grocott's Methenamine Silver Pneumocystis carinii by Grocott's Methenamine Silver Manual screening: HC-OP-SR
	Fine needle aspirates	Fine Needle Aspiration cytology examination by H&E, Papanicolaou and special staining	Specimen handling and preparation: HC-OP-SCH, HC-OP-SP Haematoxylin and Eosin stain: HC-OP-SRP Papanicolaou stain: HC-OP-SRP Special staining (manual): Method as documented in HC-OP-SPEC Acid mucin by Lison's Alcian Blue Amyloid by Highman's Congo red Periodate reactive carbohydrates by Periodic Acid Schiff with amylase digestion Mucin, capsule of Cryptococcus neoformans by Southgate's Mucicarmine Fungi by Grocott's Methenamine Silver Gram positive and negative organisms by modified Gram technique Manual screening: HC-OP-SR



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Anatomical Pathology (cont'd)	Histopathology Surgical pathology	Histology examination by H&E and special staining	Specimen preparation: HC-OP-SPH, HC-OP-PRO, HC-OP-CUT, HC-OP-EMB H&E staining: HC-OP-H&E, HC-OP-DISP Special staining (manual): HC-OP-SPEC Acid mucin by Lison's Alcian Blue Acid and neutral mucin by Mowry's AB+PAS Reticulin by Gordon & Sweet's technique Axon, nerve endings, neurofibrillary tangles, neurotic plaques by Bielschowsky's silver Mallory bodies by Chromotrope-aniline blue Mast cells by Chloroacetate Esterase Amyloid by Highman's Congo red Elastic fibres by Victoria blue Ferric iron by Perl's Prussian blue Mycobacteria (M. leprae) by Wade Fite Azurophilic granules and granulocytes by Giemsa technique Gram positive and negative organisms by modified Gram technique Fungi by Grocott's Methenamine Silver Myelin, Nissl substance by Luxol Fast Blue Mucin, capsule of Cryptococcus neoformans by Southgate's Mucicarmine Melanin, lipofuscin, argentaffin, chromaffin cells by Masson-Fontana silver Fibrin by Martius-Scarlet-Blue HBsAg by Shikata's Silver Unsaturated hydrophobic lipid by Oil Red O Periodate reactive carbohydrates by Periodic Acid Schiff with amylase digestion Basement membrane by Periodic Acid Silver Methenamine (Gomori's PASM) Acid fast bacilli by Ziehl Neelsen Collagen and muscle by Masson's Trichrome Calcium salts by Von Kossa's Silver Spirochaetes, Helicobacter by Warthin Starry's Silver

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Anatomical Pathology (cont'd)	Histopathology (cont'd) Intra-operative frozen section for fresh tissue specimens and biopsies Fresh tissue specimens and biopsies Renal and skin biopsies Histological and Cytological specimen	Histology examination by H&E staining Histology examination and enzyme histochemistry by H&E and special staining Immunofluorescence examination by Manual method Immunohistochemical examination for various antigen markers by Automation and manual method	Specimen preparation and H&E staining (manual): HC-OP-FROZ Specimen preparation and H&E staining (manual): HC-OP-SPH, HC-OP-FROZ HC-OP-SPEC Special staining (manual) for muscle: HC-OP-SPEC Acid phosphatase Adenosine triphosphatase NADH Succinic Dehydrogenase Sudan Black B Periodic Acid Schiff Special staining (manual) for rectal: HC-OP-SPEC Acetylcholine esterase Direct Immunofluorescence examination for renal and skin: HC-OP-SPEC IgA/IgM/IgG/C1q/Complement 3/Fibrinogen/Kappa/Lambda Immunohistochemistry (both automation and manual): as documented in HC-OP-IMM Autostaining by Ventana BenchMark Ultra DAKO Link 48 Lab Vision 360

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Anatomical Pathology (cont'd)	Histopathology (cont'd) Histological and Cytological specimen	Epstein-Barr Virus Early RNAs (EBV EBER) by Chromogenic In-situ Hybridization (CISH) Kappa and Lambda immunoglobulin light chain mRNA by Chromogenic In-situ Hybridization (CISH)	INFORM EBER Probe in conjunction with ISH iVIEWBlue Detection kit on the Ventana BenchMark ULTRA Autostainer as documented in MP-OP-ISH INFORM Kappa/ Lambda Probe in conjunction with ISH iVIEWBlue Detection kit on the Ventana BenchMark ULTRA Autostainer as documented in MP-OP-ISH



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Medical Genetics	Molecular Genetics (anatomical pathology) Breast tissue	Amplification of erb-b2 receptor tyrosine kinase 2 (ERBB2, HER2) by Dual In-situ Hybridization (DISH)	INFORM HER2 Dual ISH DNA Probe Cocktail (Roche) in conjunction with ultraView SISH DNP Detection kit and ultraView Red ISH DIG Detection kit on the Ventana BenchMark ULTRA Autostainer as documented in MP-OP-ISH

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Chemical Pathology	Biogenic Amine Urine (Spot, 24-hour)	Catecholamines and Metanephrines by Liquid chromatography-mass spectrometry (LC-MS)	Waters Xevo TQ system
	Blood gases and Co-oximetry Heparinized whole blood	Blood Gas include: - pCO ₂ by Potentiometry (pCO ₂ -Sensing Electrode) - pH by Potentiometry (Ion-Selective Electrode) - pO ₂ by Polarography (Oxygen-Sensing) - Bicarbonate by Auto calculation - Base Excess by Auto calculation - O ₂ Saturation by Auto calculation	Siemens RapidLab 1265 System Siemens RapidLab 1265 System Siemens RapidLab 1265 System Siemens RapidLab 1265 System Siemens RapidLab 1265 System Siemens RapidLab 1265 System
		Carboxyhaemoglobin by Co-oximetry	Siemens RapidLab 1265 System
		Methaemoglobin by Co-oximetry	Siemens RapidLab 1265 System
	General Chemistry Heparinized plasma	Alanine Aminotransferase (ALT) by Spectrophotometry	Abbott Architect c16000 System, ALT assay
		Albumin by Spectrophotometry	Abbott Architect c16000 System, AlbBCG2 assay
		Alkaline Phosphatase (ALP) by Spectrophotometry	Abbott Architect c16000 System, AlkP assay
	EDTA plasma	Ammonia by Spectrophotometry	Abbott Architect c16000 System, Amm assay

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Chemical Pathology (cont'd)	General Chemistry (cont'd) Heparinized plasma	Amylase by Spectrophotometry	Abbott Architect c16000 System, AMY2 assay
		Aspartate Aminotransferase (AST) by Spectrophotometry	Abbott Architect c16000 System, AST2 assay
	Heparinized plasma	Beta-hydroxybutyrate by Spectrophotometry	Abbott Architect c16000 System, Randox Beta-hydroxybutyrate assay
		Bilirubin - Direct by Spectrophotometry	Abbott Architect c16000 System, BilD assay
		Bilirubin - Neonates by Spectrophotometry	Leica Bilirubinometer
		Bilirubin - Total by Spectrophotometry	Abbott Architect c16000 System, BiliT assay
	Low heparinized whole blood	Calcium by Spectrophotometry	Abbott Architect c16000 System, CaC assay
		Calcium, ionized by Potentiometry (Ion-Selective Electrode)	Siemens RapidLab 1265 System
	Heparinized plasma	Chloride by Potentiometry (Ion-Selective Electrode)	Abbott Architect c16000 System, Chloride assay
		Cholesterol by Spectrophotometry	Abbott Architect c16000 System, Chol2 assay
		Cholesterol - high density lipoproteins (HDL) by Spectrophotometry	Abbott Architect c16000 System, UHDl assay
		Creatine Kinase (CK) by Spectrophotometry	Abbott Architect c16000 System, CK assay
		Creatinine by Spectrophotometry	Abbott Architect c16000 System, Crea2 assay

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Chemical Pathology (cont'd)	General Chemistry (cont'd) Heparinized plasma (cont'd)	Estimated GFR by Calculation	Calculated from plasma creatinine
		Gamma Glutamyl Transpeptidase (GGT) by Spectrophotometry	Abbott Architect c16000 System, GGT2 assay
		Globulin by Calculation	Calculated from plasma Total Protein and Albumin
	Fluoride plasma, CSF	Glucose by Spectrophotometry	Abbott Architect c16000 System, GluC assay
	Heparinized plasma	Iron by Spectrophotometry	Abbott Architect c16000 System, Iron2 assay
		Iron Saturation by Calculation	Calculated from plasma Iron and TIBC
		Lactate by Spectrophotometry	Abbott Architect c16000 System, LactA assay
	Heparinized plasma	Lactate dehydrogenase (LDH) by Spectrophotometry	Abbott Architect c16000 System, LDH2 assay
		LDL cholesterol by Calculation	Calculated from Cholesterol, HDL Cholesterol and Triglycerides
		Magnesium by Spectrophotometry	Abbott Architect c16000 System, MAG assay
	Serum	Osmolality by Freezing Point Depression	A2O Advanced Automated Osmometer
	Heparinized plasma	Phosphate by Spectrophotometry	Abbott Architect c16000 System, Phos assay
		Potassium by Potentiometry (Ion-Selective Electrode)	Abbott Architect c16000 System, Potassium assay

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Chemical Pathology Laboratory: 1/F, Main Block; 3/F, Pathology Block, PYNEH, 3 Lok Man Rd, Chai Wan, HK

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Chemical Pathology (cont'd)	General Chemistry (cont'd)		
	Heparinized plasma (cont'd)	Protein, Total by Spectrophotometry	Abbott Architect c16000 System, TPRO2 assay
	CSF	Protein, Total by Spectrophotometry	Abbott Architect c16000 System, UPro assay
	Whole blood	Pyruvate by Spectrophotometry	Abbott Architect c16000 System, Biochemical Enterprise Pyruvate assay
	Heparinized plasma	Sodium by Potentiometry (Ion-Selective Electrode)	Abbott Architect c16000 System, Sodium assay
		Total Iron Binding Capacity, (TIBC) by Calculation	Calculated from plasma Iron and UIBC
		Triglycerides by Spectrophotometry	Abbott Architect c16000 System, Trig2 assay
		Troponin I by Immunoassay (Chemiluminescent label)	Abbott Architect i2000SR System, STAT hsTnI assay
		Unsaturated Iron Binding Capacity (UIBC) by Spectrophotometry	Abbott Architect c16000 System, UIBC assay
		Urate by Spectrophotometry	Abbott Architect c16000 System, Uric2 assay
		Urea by Spectrophotometry	Abbott Architect c16000 System, Urea2 assay
	Urine (spot, 24-hour)	Calcium by Spectrophotometry	Abbott Architect c16000 System, CaC assay
		Chloride by Potentiometry (Ion-Selective Electrode)	Abbott Architect c16000 System, Chloride assay
		Creatinine by Spectrophotometry	Abbott Architect c16000 System, Crea2 assay
	Urine (spot)	Osmolality by Freezing Point Depression	A2O Advanced Automated Osmometer
	Urine (spot, 24-hour)	Phosphate by Spectrophotometry	Abbott Architect c16000 System, Phos assay
		Potassium by Potentiometry (Ion-Selective Electrode)	Abbott Architect c16000 System, Potassium assay

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Chemical Pathology (cont'd)	General Chemistry (cont'd) Urine (spot, 24-hour) (cont'd)	Protein, Total by Spectrophotometry Sodium by Potentiometry (Ion-Selective Electrode) Urate by Spectrophotometry Urea by Spectrophotometry Urine albumin by Immunonephelometry Urine Albumin/Creatinine ratio by Calculation Urine Protein/Creatinine ratio by Calculation Urine Urea/Creatinine ratio by Calculation	Abbott Architect c16000 System, UPro assay Abbott Architect c16000 System, Sodium assay Abbott Architect c16000 System, Uric2 assay Abbott Architect c16000 System, Urea2 assay Beckman Coulter IMMAGE 800 System, MA assay Calculated from urine Albumin and urine Creatinine Calculated from urine Protein and urine Creatinine Calculated from urine Urea and urine Creatinine

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Chemical Pathology (cont'd)	Hormones Serum	<p>Cortisol by Immunoassay (Competitive binding immunoenzymatic assay)</p> <p>Estradiol by Immunoassay (Competitive binding immunoenzymatic assay)</p> <p>Follicle stimulating hormone by Immunoassay (Sequential two-step immunoenzymatic assay)</p> <p>Growth Hormone by Immunoassay (Simultaneous one-step immunoenzymatic assay)</p> <p>β-HCG, Total by Immunoassay (Chemiluminescent label)</p> <p>Luteinizing hormone by Immunoassay (Sequential two-step immunoenzymatic assay)</p> <p>Parathyroid hormone by Immunoassay (Two-site immunoenzymatic assay)</p> <p>Progesterone by Immunoassay (Competitive binding immunoenzymatic assay)</p> <p>Prolactin by Immunoassay (Simultaneous one-step immunoenzymatic assay)</p> <p>Prolactin Recovery by Calculation</p>	<p>Beckman Coulter UniCel DxI 800 Access Immunoassay System, Access Cortisol assay</p> <p>Beckman Coulter UniCel DxI 800 Access Immunoassay System, Access Sensitive Estradiol assay</p> <p>Beckman Coulter UniCel DxI 800 Access Immunoassay System, Access hFSH assay</p> <p>Beckman Coulter UniCel DxI 800 Access Immunoassay System, Access Ultrasensitive hGH assay</p> <p>Abbott Architect i2000SR System, β-hCG assay</p> <p>Beckman Coulter UniCel DxI 800 Access Immunoassay System, Access hLH assay</p> <p>Beckman Coulter UniCel DxI 800 Access Immunoassay System, Access INTACT PTH (iPTH) assay</p> <p>Beckman Coulter UniCel DxI 800 Access Immunoassay System, Access Progesterone assay</p> <p>Beckman Coulter UniCel DxI 800 Access Immunoassay System, Access Prolactin assay</p> <p>Calculated from Prolactin</p>

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Chemical Pathology (cont'd)	Hormones (cont'd) Serum (cont'd)	Testosterone by Immunoassay (Competitive binding immunoenzymatic assay)	Beckman Coulter UniCel DxI 800 Access Immunoassay System, Access Testosterone assay
		Thyroid Stimulating Hormone (TSH) by Immunoassay (Two-site Immunoenzymatic assay)	Beckman Coulter UniCel DxI 800 Access Immunoassay System, Access TSH (3 rd IS) assay
		Thyroxine, free (FT3) by Immunoassay (Competitive binding immunoenzymatic assay)	Beckman Coulter UniCel DxI 800 Access Immunoassay System, Access Free T3 assay
		Thyroxine, free (FT4) by Immunoassay (Two-step enzyme immunoassay)	Beckman Coulter UniCel DxI 800 Access Immunoassay System, Access Free T4 assay
	Protein, qualitative analysis Serum, urine (spot)	Protein pattern by agarose gel electrophoresis	INTERLAB G26 system
		Monoclonal protein by immunofixation	Sebia HYDRASYS 2 Scan Focusing system
	Protein, quantitative analysis Serum	C-Reactive Protein by Turbidimetry	Abbott Architect c16000 System, CRP assay
		Ferritin by Immunoassay (Two-site immunoenzymatic assay)	Beckman Coulter UniCel DxI 800 Access Immunoassay System, Access Ferritin assay
	Therapeutic Drug Monitoring Serum	Carbamazepine by Immunoassay (Chemiluminescent label)	Abbott Architect i2000SR System, iCarb assay

Hospital Authority - Hong Kong East Cluster, Department of Clinical Pathology

醫院管理局-港島東聯網臨床病理部

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香港柴灣樂民道三號東區尤德夫人那打素醫院一樓；病理學大樓三樓

MEDICAL TESTING

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Chemical Pathology (cont'd)	Therapeutic Drug Monitoring (cont'd) EDTA whole blood	Cyclosporin A by Liquid chromatography-tandem mass spectrometry (LC-MS/MS)	Waters TQD Mass Spectrometer
		Digoxin by Immunoassay (Chemiluminescent label)	Abbott Architect i2000SR System, iDigoxin assay
	Serum	Lithium by Spectrophotometry	Abbott Architect c16000 System, Lith assay
		Phenobarbital by Immunoassay (Chemiluminescent label)	Abbott Architect i2000SR System, iPhenobarbital assay
		Phenytoin by Immunoassay (Chemiluminescent label)	Abbott Architect i2000SR System, iPhenytoin assay
	EDTA whole blood	Tacrolimus by Liquid chromatography-tandem mass spectrometry (LC-MS/MS)	Waters TQD Mass Spectrometer
	Serum	Theophylline by Immunoassay (Chemiluminescent label)	Abbott Architect i2000SR System, iTheophylline assay
		Valproic acid by Immunoassay (Chemiluminescent label)	Abbott Architect i2000SR System, iValproic acid assay

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Chemical Pathology (cont'd)	Toxicology Heparinized plasma	Acetaminophen by Spectrophotometry	Abbott Architect c16000 System, Aceta assay
		Cholinesterase by Spectrophotometry	Abbott Architect c16000 System, ChE assay
		Ethanol by Spectrophotometry	Abbott Architect c16000 System, EtohM assay
		Salicylate by Spectrophotometry	Abbott Architect c16000 System, Sali assay
	Urine	Toxicology Screening by Liquid Chromatography - Time-of-flight Mass Spectrometry (LC-MS-TOF)	Method as documented in CC-SOP-G2XS-TEST using Waters Acquity I class UPLC – Waters Vevo G2-XS Mass Spectrometer
	Tumour Markers Serum	Alpha-fetoprotein (AFP) by Immunoassay (Two-site immunoenzymatic assay)	Beckman Coulter UniCel DxI 800 Access Immunoassay System, Access AFP assay
		CA 125 by Immunoassay (Two-site immunoenzymatic assay)	Beckman Coulter UniCel DxI 800 Access Immunoassay System, Access OV MONITOR assay
		CA 15.3 by Immunoassay (Two-site immunoenzymatic assay)	Beckman Coulter UniCel DxI 800 Access Immunoassay System, Access BR MONITOR assay
		CA 19.9 by Immunoassay (Two-site immunoenzymatic assay)	Beckman Coulter UniCel DxI 800 Access Immunoassay System, Access GI MONITOR assay
		CEA by Immunoassay (Two-site immunoenzymatic assay)	Beckman Coulter UniCel DxI 800 Access Immunoassay System, Access CEA assay

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Chemical Pathology (cont'd)	Tumour Markers (cont'd) Serum (cont'd)	PSA by Immunoassay (Two-site immunoenzymatic assay) Free PSA by Immunoassay (Two-site immunoenzymatic assay) p2PSA by Immunoassay (Two-site immunoenzymatic assay) Prostate Health Index (phi) by Calculation Thyroglobulin by Immunoassay (Simultaneous one-step immunoenzymatic assay)	Beckman Coulter UniCel DxI 800 Access Immunoassay System, Access Hybritech PSA assay Beckman Coulter UniCel DxI 800 Access Immunoassay System, Access Hybritech free PSA assay Beckman Coulter UniCel DxI 800 Access Immunoassay System, Access Hybritech p2PSA assay Calculated from total PSA, Free PSA and p2PSA Beckman Coulter UniCel DxI 800 Access Immunoassay System, Access Thyroglobulin assay

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Immunology	Immunochemistry		
	Serum	C3 Complement (C3) by Immunonephelometry	Beckman Coulter IMAGE 800 System, C3 assay
		C4 Complement (C4) by Immunonephelometry	Beckman Coulter IMAGE 800 System, C4 assay
		Ceruloplasmin by Immunonephelometry	Beckman Coulter IMAGE 800 System, CER assay
		Haptoglobin by Immunonephelometry	Beckman Coulter IMAGE 800 System, HPT assay
		Immunoglobulin A, IgA by Immunonephelometry	Beckman Coulter IMAGE 800 System, IGA assay
		Immunoglobulin E, IgE by Immunoturbidimetry	Beckman Coulter IMAGE 800 System, IGE assay
	Serum, CSF	Immunoglobulin G, IgG by Immunonephelometry	Beckman Coulter IMAGE 800 System, IGG assay
	Serum	Immunoglobulin M, IgM by Immunonephelometry	Beckman Coulter IMAGE 800 System, IGM assay
	Autoantibodies		
	Serum	Rheumatoid factor (RF) by Immunoturbidimetry	Abbott Architect c16000 System, RF assay

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Clinical Microbiology and Infection	Bacteriology - Culture and sensitivity tests and/or microscopy	Culture and antimicrobial susceptibility test for enteric pathogens by Aerobic and microaerophilic culture	Method as documented in CM-SOP-STCU
		Culture and antimicrobial susceptibility test for specific pathogens or those with clinical indications by Aerobic culture - Escherichia coli O157 - Vancomycin resistant Enterococcus - Carbapenem resistant Enterobacteriaceae	Method as documented in CM-SOP-STCU Method as documented in CM-SOP-VRE Method as documented in CM-SOP-CPE
		Anaerobic culture - Clostridium difficile	Method as documented in CM-SOP-STCU
	Urine	Culture and antimicrobial susceptibility test for urinary pathogens by Standard loop method and aerobic culture	Method as documented in CM-SOP-URCU
	Suprapubic urine	Culture and antimicrobial susceptibility test for urinary pathogens by Aerobic, CO ₂ and anaerobic culture	Method as documented in CM-SOP-URCU
	Upper respiratory tract samples (including throat swab, nasal swab etc.)	Culture and antimicrobial susceptibility test for upper respiratory tract pathogens by Aerobic and CO ₂ culture	Method as documented in CM-SOP-SPCU
	Nasal swab and Nasopharyngeal/pernasal swab	Culture and antimicrobial susceptibility test for specific pathogens or those with clinical indications by Aerobic culture - Staphylococcus aureus - Methicillin-resistant Staphylococcus aureus(MRSA) - Bordetella pertussis	Method as documented in CM-SOP-SPCU Method as documented in CM-SOP-MRSA

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Clinical Microbiology and Infection (cont'd)	Bacteriology - Culture and sensitivity tests and/or microscopy (cont'd) Lower respiratory tract samples (including sputum, bronchial aspirate, tracheal aspirate etc.)	Microscopy for cell morphology and microorganisms by Gram Stain	Method as documented in CM-SOP-SPCU
		Culture and antimicrobial susceptibility test for lower respiratory tract pathogens by Aerobic and CO ₂ culture	Method as documented in CM-SOP-SPCU
		Culture and antimicrobial susceptibility test for specific pathogens or those with clinical indications by Aerobic culture - <i>Nocardia</i> species	Method as documented in CM-SOP-SPCU
	Brochioalveolar lavage (BAL) and Protected bronchial brush	Microscopy for cell morphology and microorganisms by Gram Stain	Method as documented in CM-SOP-SPCU
		Culture and antimicrobial susceptibility test for pathogens by Aerobic, CO ₂ and anaerobic culture	Method as documented in CM-SOP-SPCU
	Genital sample	Microscopy for cell morphology and microorganisms by Gram Stain	Method as documented in CM-SOP-MSCU
		Culture and antimicrobial susceptibility test for genital pathogens by Aerobic and CO ₂ culture	Method as documented in CM-SOP-MSCU
	Miscellaneous sample	Culture and antimicrobial susceptibility test for <i>Neisseria gonorrhoeae</i> by CO ₂ culture	Method as documented in CM-SOP-MSCU

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Clinical Microbiology and Infection (cont'd)	Bacteriology - Culture and sensitivity tests and/or microscopy (cont'd)		
	Miscellaneous samples (including body fluid, swab, pus, tissue etc.)	Microscopy for cell morphology and microorganisms by Gram Stain	Method as documented in CM-SOP-MSCU
		Cell count (body fluid) by Counting chamber Fluorescent Flow Cytometry	Method as documented in CM-SOP-MSCU Sysmex XN-450 analyser
	Superficial wound	Culture and antimicrobial susceptibility test for pathogens by Aerobic and CO ₂ culture	Method as documented in CM-SOP-MSCU
	Deep wound and tissue	Culture and antimicrobial susceptibility test for pathogens by Aerobic, CO ₂ and anaerobic culture	Method as documented in CM-SOP-MSCU
	Sterile body fluid	Culture and antimicrobial susceptibility test for pathogens by Aerobic, CO ₂ and anaerobic culture	Method as documented in CM-SOP-MSCU
	Eye sample (swab)	Culture and antimicrobial susceptibility test for pathogens by Aerobic and CO ₂ culture	Method as documented in CM-SOP-MSCU
	Eye sample (pus, aspirate, intraocular fluid etc.)	Culture and antimicrobial susceptibility test for pathogens by Aerobic, CO ₂ and anaerobic culture	Method as documented in CM-SOP-MSCU
	Ear sample (swab)	Culture and antimicrobial susceptibility test for pathogens by Aerobic and CO ₂ culture	Method as documented in CM-SOP-MSCU

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Clinical Microbiology and Infection (cont'd)	Bacteriology - Culture and sensitivity tests and/or microscopy (cont'd)		
	Ear sample (pus and discharge)	Culture and antimicrobial susceptibility test for pathogens by Aerobic, CO ₂ and anaerobic culture	Method as documented in CM-SOP-MSCU
	Blood	Culture and antimicrobial susceptibility test for pathogens by Aerobic and anaerobic broth culture	Method as documented in CM-SOP-BLCU using BD BACTEC FX and BacT/ALERT® 3D System bioMerieux VIRTUO System
	CSF	Microscopy for - Cell count by Counting chamber Fluorescent Flow Cytometry - Microorganisms by Gram Stain - Encapsulated yeast by India Ink Stain	Method as documented in CM-SOP-CSFC Sysmex XN-450 analyser Method as documented in CM-SOP-STAIN Method as documented in CM-SOP-STAIN
		Culture and antimicrobial susceptibility tests for pathogens, by Aerobic and CO ₂ culture	Method as documented in CM-SOP-CSFC
	Clinical isolates	Identification of clinical isolates by MALDI-TOF Mass Spectrometry	Method as documented in CM-SOP-MALDI using BD Bruker IVD MALDI-TOF Biotype System
	Clinical isolates	Antimicrobial susceptibility test for pathogen by Automated microbroth MIC determination	Biomerieux VITEK 2 XL System Thermo Scientific Sensititre ARIS HiQ™

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Clinical Microbiology and Infection (cont'd)	Bacteriology – Serology Serum	Anti-Streptolysin O antibody by Latex agglutination test	Biokit rheumajet ASO
		Brucella antibody by Agglutination test	Method as documented in CM-SOP-SERO
		CSF, Serum	Cryptococcal antigen by Lateral flow assay
		Urine	Legionella pneumophila serogroup 1 antigen by Rapid immunochromatographic assay
			BinaxNOW Legionella Urinary Antigen Card
	Bacteriology – Therapeutic drug monitoring Serum	Streptococcus pneumoniae antigen by Rapid immunochromatographic assay	BinaxNOW Streptococcus pneumoniae Antigen Card
		Gentamicin assay (Quantitative) by Immunoassay (Kinetic interaction of microparticles in a solution)	Roche Cobas c503 System, GENT2 assay
		Vancomycin (Quantitative) by Immunoassay (Kinetic interaction of microparticles in a solution)	Roche Cobas c503 System, VANC3 assay
	Miscellaneous Clotted blood	Human procalcitonin, PCT by Enzyme-linked Fluorescent Assay	bioMerieux VIDAS BRAHMS, PCT Assay

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Clinical Microbiology and Infection (cont'd)	Mycobacteriology – Microscopy CSF, Respiratory specimens and miscellaneous samples	Microscopy for acid fast bacilli (AFB) by Ziehl- Neelsen stain Auramine O fluorescent stain	Method as documented in CM-SOP-TB
	Mycology – Culture, ID and Serology Dermatological samples (including tissue, skin, hair and nail)	Microscopy for fungal filaments and yeasts by KOH preparation	Method as documented in CM-SOP-FGCU
	Respiratory and body fluids	Microscopy for fungal filaments and yeasts - Lacto Pheno Cotton Blue Stain - Gram stain	Method as documented in CM-SOP-FGCU Method as documented in CM-SOP-STAIN
	All samples	Culture for fungi and identification by Aerobic culture	Method as documented in CM-SOP-FGCU
	Parasitology – Microscopy and staining Stool	Microscopy for enteric parasites by - Direct wet smear - Smear after concentration Microscopy for Amoeba by - Direct wet smear - Smear after concentration Identification of intestinal protozoa parasites by - Iron Haematoxylin stain - Gomori's Trichome stain	Method as documented in CM-SOP-PAR Method as documented in CM-SOP-PAR Method as documented in CM-SOP-PAR

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Clinical Microbiology and Infection (cont'd)	Syphilis Serology Serum	Treponemal pallidum antibody by Treponemal pallidum passive particle agglutination test (TPPA)	Method as documented in CM-SOP-SERO using Fujirebio Serodia TP.PA Kit
	Urinalysis and/or urine microscopy Urine	Urine formed elements by Microscopic examination with fixed volume in microtitre plate Automated imaging and evaluation technology	Method as documented in CM-SOP-URCU Roche Cobas u701 microscopy analyser
		Urinalysis by dipstick method, including: - Glucose - Bilirubin - Ketone - Specific Gravity - Blood - pH - Protein - Urobilinogen - Nitrate	Method as documented in CM-SOP-URCU using Roche Cobas u601 urine analyser Roche Cobas u pack urine test strips
	Virology – Serology Respiratory samples (mainly NPA & NPS)	Adenovirus by Direct Immunofluorescence Human Metapneumovirus by Direct Immunofluorescence	Method as documented in CM-SOP-RVDIF D3 Ultra 8 DFA Respiratory Virus Screening & ID Kit – D3Ultra Adenovirus DFA Reagent, Diagnostic Hybrids Method as documented in CM-SOP-RVDIF D3 Ultra 8 DFA Respiratory Virus Screening & ID Kit – D3 Ultra Metapneumovirus DFA Reagent, Diagnostic Hybrids

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Clinical Microbiology and Infection (cont'd)	Virology – Serology (cont'd) Respiratory samples (mainly NPA & NPS) (cont'd)	Influenza virus by Direct Immunofluorescence Test	Method as documented in CM-SOP-RVDIF D3 Ultra 8 DFA Respiratory Virus Screening & ID Kit – D3 Ultra Influenza A and Influenza B DFA Reagents, Diagnostic Hybrids
		Parainfluenza virus by Direct Immunofluorescence Test	Method as documented in CM-SOP-RVDIF D3 Ultra 8 DFA Respiratory Virus Screening & ID Kit – D3 Ultra Parainfluenza 1, Parainfluenza 2 & Parainfluenza 3DFA Reagents, Diagnostic Hybrids
		Respiratory syncytial virus by Direct Immunofluorescence Test	Method as documented in CM-SOP-RVDIF D3 Ultra 8 DFA Respiratory Virus Screening & ID Kit – D3Ultra RSV DFA Reagent, Diagnostic Hybrids
	Serum	Hepatitis B virus core antibody (Qualitative) by Immunoassay (Chemiluminescent label)	Roche Cobas e801 System, Elecsys Anti-HBc II assay
		Hepatitis B virus e antibody (Qualitative) by Immunoassay (Chemiluminescent label)	Roche Cobas e801 System, Elecsys Anti-HBe assay
		Hepatitis B virus e antigen (Qualitative) by Immunoassay (Chemiluminescent label)	Roche Cobas e801 System, Elecsys HBeAg assay
		Hepatitis B virus surface antigen (Quantitative) by Immunoassay (Chemiluminescent label)	Roche Cobas e801 System, Elecsys HBsAg II assay and Elecsys HBsAg II Auto Confirm assay

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Clinical Microbiology and Infection (cont'd)	Virology – Serology (cont'd) Serum (cont'd)	Human immunodeficiency virus I & II antibody and p24 antigen (Qualitative) by Immunoassay (Chemiluminescent label) Rubella virus antibody (IgG) (Qualitative) by Immunoassay (Chemiluminescent label) Varicella zoster virus antibody by Enzyme-linked Fluorescent Assay (ELFA)	Roche Cobas e801 System Elecsys HIV Duo assay Roche Cobas e801 System Elecsys Rubella IgG assay bioMerieux VIDAS Varicella-zoster IgG Assay

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Haematology	Coagulation Citrate blood	Coagulation studies, automated including	
		- Prothrombin Time (PT)	Beckman Coulter ACLTop550 CTS
		- Activated partial thromboplastin time (APTT)	Beckman Coulter ACLTop550 CTS
		- Fibrinogen	ACL TOP 550
		D-Dimer by	
		Enzyme linked fluorescent assay (ELFA)	mini VIDAS
		Factor II assay	Beckman Coulter ACLTop550 CTS
		Factor V assay	Beckman Coulter ACLTop550 CTS
		Factor VII assay	Beckman Coulter ACLTop550 CTS
		Factor VIII assay	Beckman Coulter ACLTop550 CTS
		Factor IX assay	Beckman Coulter ACLTop550 CTS
		Factor X assay	Beckman Coulter ACLTop550 CTS
		Factor XI assay	Beckman Coulter ACLTop550 CTS
		Factor XII assay	Beckman Coulter ACLTop550 CTS

Hospital Authority - Hong Kong East Cluster, Department of Clinical Pathology

醫院管理局-港島東聯網臨床病理部

Haematology Laboratory: 2/F, Pathology Block and 1/F Main Block, PYNEH, 3 Lok Man Rd, Chai Wan, HK
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MEDICAL TESTING

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Haematology (cont'd)	Coagulation (cont'd) Citrate blood (cont'd)	Factor inhibitor screening	Method as documented in HS 006 using Beckman Coulter ACLTop550 CTS
		Lupus Anti-coagulant detection by Dilute Russell's Viper Venom Time (DRVVT)	Method as documented in HS 006 using Beckman Coulter ACLTop550 CTS
		Mixing Study	Method as documented in HS 006
		Thrombophilia screening: - Protein C - Free Protein S - Anti-thrombin - Activated Protein C Resistance	Method as documented in HS 006 using Beckman Coulter ACLTop550 CTS
		Thrombin Time	Method as documented in HS 003 and HS 006 using ACL TOP 550
		Von Willebrand Disease screening: - vWF Antigen - vWF Ristocetin Cofactor	Method as documented in HS 006 Beckman Coulter ACLTop550 CTS

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Haematology (cont'd)	Haematology – General EDTA whole blood	Complete blood count including: <ul style="list-style-type: none"> - Haemoglobin - Haematocrit - Leucocyte count (WBC count) - Mean corpuscular volume (MCV) - Mean corpuscular haemoglobin concentration (MCHC) - Mean corpuscular haemoglobin (MCH) - Platelet count - Red cell count - Red cell distribution width (RDW) - Mean Platelet Volume (MPV) 	Sysmex XN9100
		Erythrocyte Sedimentation Rate (ESR) by Automated method	Method as documented in HS003 using Diesse Vesmatic 30
		Leucocyte differential count by Automated method	Sysmex XN9100

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Haematology (cont'd)	Haematology – General EDTA whole blood	Peripheral blood smear examination by May Grunwald – Giemsa stain	Sysmex SP-50
		Reticulocyte count, automated by Polymethine dye	Sysmex XN9100
		Reticulocyte count (Manual) by New Methylene Blue stain	Method as documented in HS 006
		Malaria parasite examination by Thick and thin films	Method as documented in HS 008: Smear preparation and Giemsa staining (pH7.2)
	Haematology – Special EDTA marrow blood aspirate, clot, trephine	Bone Marrow Examination	Specimen preparation and staining as documented in HS 006 and HS 009 Marrow smear by May Grunwald - Giemsa and Perl's Prussian Blue stain as documented in HS 006 Peripheral blood smear by May Grunwald –Giemsa or Wright –Giemsa stain
		Glucose-6-phosphate dehydrogenase (G6PD): - screening by fluorescence test	Method as documented in HS 008
	EDTA whole blood	Haemoglobin A1c (HbA1c) by High performance liquid chromatography (HPLC)	Tosoh G8
		Haemoglobin A2 and F quantitation by High performance liquid chromatography (HPLC)	BioRad Variant II HPLC analyzer
		Haemoglobin H inclusion bodies by - New Methylene Blue stain	Method as documented in HS 007
		Haemoglobin pattern by Capillary electrophoresis	Sebia Capillarys 3 Tera

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Haematology (cont'd)	Haematology – Special Serum	Monospot Test	Meridian Bioscience Monospot Test Kit
		Holotranscobalamin (Active B12) by Immunoassay (Chemiluminescent label)	Abbott Architect i1000SR, Vitamin B12 assay
		Folate by Immunoassay (Chemiluminescent label)	Abbott Architect i1000SR, Folate assay
	EDTA whole blood	Kleihauer's test	Method as documented in HS 008
	Plasma and heparinized blood	Plasma haemoglobin by Spectrophotometry	Method as documented in HS 008
	EDTA blood, EDTA marrow blood	Immunophenotyping for haematological disorder by Flow cytometry	Beckman Coulter FC500 Flow Cytometer
		CD34+ cell enumeration by Flow cytometry	Beckman Coulter FC500 Flow Cytometer

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Blood Bank: 1/F, Main Block, PYNEH, 3 Lok Man Rd, Chai Wan, HK

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Haematology (cont'd)	Blood bank – Antenatal screen Clotted blood and EDTA blood	ABO and Rh(D) typing and antibody screening for anti-D for Rh(D) negative patients	Method as documented in BB-SOP-GLP and BB-SOP-TEST
	Blood bank – General Clotted blood and EDTA blood	ABO and Rh (D) typing by Direct agglutination	Method as documented in BB-SOP-TEST
		ABO and Rh (D) typing by - Red Cell Agglutination, automated	Method as documented in BB-SOP-IH1000 using Bio-Rad IH1000
		ABO and Rh (D) - Weak D Testing by Indirect antiglobulin test (IAT)	Method as documented in BB-SOP-TEST
		Antibody screening by - Red Cell Agglutination, manual	Method as documented in BB-SOP-TEST using Bio-Rad reagents
		- Red Cell Agglutination, automated	Method as documented in BB-SOP-IH1000 using Bio-Rad IH1000
		- Saline-Indirect antiglobulin test	Method as documented in BB-SOP-TEST
		Red cell phenotyping by - Direct agglutination	Method as documented in BB-SOP-TEST
		- Indirect antiglobulin test (IAT)	Method as documented in BB-SOP-TEST
		- Red Cell Agglutination, automated	Method as documented in BB-SOP-IH1000 using Bio-Rad IH1000
		Crossmatch by - Computer crossmatch	Method as documented in BB-SOP-GLP and BB-SOP-TEST
		- Immediate spin	Method as documented in BB-SOP-GLP and BB-SOP-TEST
		- Saline-Indirect antiglobulin test	Method as documented in BB-SOP-TEST
		- Red Cell Agglutination, manual	Method as documented in BB-SOP-TEST using Bio-Rad reagents
		- Red Cell Agglutination, automated	Method as documented in BB-SOP-IH1000 using Bio-Rad IH1000

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Haematology (cont'd)	Blood bank – Immunohaematology		
	EDTA Blood	Direct antiglobulin test (DAT) by - Conventional method - Red Cell Agglutination, manual	Method as documented in BB_SOP-TEST Method as documented in BB-SOP-TEST using Bio-Rad gel card
	Blood bank – Special		
	EDTA blood	Antibody elution and identification by Acid Glycine/EDTA elution	Method as documented in BB-SOP-TEST
	Clotted blood	Antibody identification by - Red Cell Agglutination, manual - Red Cell Agglutination, automated	Method as documented in BB-SOP-TEST using Bio-Rad reagents Method as documented in BB-SOP-IH1000 using Bio-Rad IH1000
	Clotted blood and EDTA blood	Investigation of ABO Blood Group Anomaly	Method as documented in BB-SOP-GLP
	Maternal clotted blood	Investigation of haemolytic disease of newborn, including: - ABO and Rh(D) typing	Method as documented in BB-SOP-TEST
	Clotted blood and EDTA blood	Transfusion reaction, including - ABO and Rh(D) typing - Red cell antigen phenotyping - Antibody identification - Crossmatching	Method as documented in BB-SOP-GLP

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Medical Genetics	Molecular Genetics (microbiology) CSF	Multiple meningitis and encephalitis pathogens detection and identification by multiplexed nucleic acid test, qualitative <ul style="list-style-type: none"> - <i>Escherichia coli</i> K1 - <i>Haemophilus influenzae</i> - <i>Listeria monocytogenes</i> - <i>Neisseria meningitidis</i> - <i>Streptococcus agalactiae</i> - <i>Streptococcus pneumoniae</i> - Cytomegalovirus (CMV) - Enterovirus (EV) - Herpes simplex virus 1 (HSV-1) - Herpes simplex virus 2 (HSV-2) - Human herpesvirus 6 (HHV-6) - Human parechovirus (HPeV) - Varicella zoster virus (VZV) - <i>Cryptococcus neoformans/gattii</i> (Target regions: proprietary)	The BioFire FilmArray Meningitis/ Encephalitis (ME) panel Method as documented in CM-SOP-FAME
	Respiratory samples	<i>Chlamydophila pneumoniae</i> – Detection by Real-Time Polymerase Chain Reaction, qualitative (Target region: J38 genomic region)	Nucleic acid extraction by MagNA Pure 96 automated nucleic acid extraction system Nucleic acid amplification and detection as documented in MP-OP-ChPn
	Stool	<i>Clostridium difficile</i> – Detection by Real-time Polymerase Chain Reaction, qualitative (Target region: tcdC gene)	Cepheid Xpert C. difficile BT Nucleic acid extraction, amplification and detection by Xpert C. difficile assay as documented in MP-OP-Cldif

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Medical Genetics (cont'd)	Molecular Genetics (microbiology) (cont'd)		
	EDTA Blood	Hepatitis B Virus (HBV) – Detection by Real-Time Polymerase Chain Reaction (PCR), quantitative (Target region: pre-Core / Core region of the HBV genome)	Nucleic acid extraction, amplification and detection by Roche Cobas 4800 using cobas® HBV assay
	EDTA Blood	Hepatitis C Virus – detection by Real-Time Polymerase Chain Reaction, quantitative (Target region: 5' NTR)	Nucleic acid extraction by Roche cobas x480 Nucleic acid amplification and detection by Roche cobas z480 Method as documented in MP-OP-HCV
		Hepatitis C Virus genotyping by Real-Time Polymerase Chain Reaction	RealTime PCR using Roche Cobas HCV GT Nucleic acid extraction by Roche cobas x 480 Nucleic acid amplification and detection by Roche cobas z480 Method as documented in MP-OP-HCV
	Respiratory samples	Influenza A virus – Detection by Reverse transcription and Real-time Polymerase Chain Reaction, qualitative (Target region: M gene)	Nucleic acid extraction by KingFisher Flex System, EMAG and MagNA Pure 96 automated nucleic acid extraction system Method as documented in MP-OP-Influenza A
		Influenza A virus (H1, H3, H5 and Swine H1subtype) – Detection by Reverse transcription and Real-time Polymerase Chain Reaction, qualitative (Target region: HA gene)	Nucleic acid extraction by KingFisher Flex System, EMAG and MagNA Pure 96 automated nucleic acid extraction system Method as documented in MP-OP-Influenza A

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Medical Genetics (cont'd)	Molecular Genetics (microbiology) (cont'd) Respiratory samples	Influenza A virus, Influenza B virus and Respiratory Syncytial Virus by Reverse Transcription and Real-Time Polymerase Chain Reaction, qualitative (Target region: Influenza A virus: M, PB2 and PA gene Influenza B virus: M and NS gene RSV: RSV A and RSV B nucleocapsid gene)	Cepheid Xpert Xpress Flu/RSV Assay in Cepheid GeneXpert System Method as documented in MP-OP-FLUABRSV
	Sputum, non-sterile samples	<i>Legionella pneumophila</i> – Detection by Real-time Polymerase Chain Reaction, qualitative (Target region: MIP gene) <i>Mycobacterium tuberculosis</i> – Detection by Polymerase Chain Reaction and Real-time Polymerase Chain reaction, qualitative (Target region: IS6110)	Nucleic acid extraction by EMAG, MagNA Pure 96 automated nucleic acid extraction system Method as documented in MP-OP-LegPn Nucleic acid extraction by Cobas-AMPLICOR Respiratory Specimen Preparation Kit Method as documented in MP-OP-MTB

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Medical Genetics (cont'd)	Molecular Genetics (microbiology) (cont'd) Respiratory samples	<p><i>Mycoplasma pneumoniae</i> – Detection by Real-time Polymerase Chain Reaction, qualitative (Target region: P1 gene)</p> <p>Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2) – detection by Reverse Transcription and Real-Time Polymerase Chain Reaction, qualitative (Target region: E gene and N2 gene)</p> <p>Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2), Influenza A Virus, Influenza B Virus and Respiratory Syncytial Virus (RSV) – detection by Reverse Transcription and Real-Time Polymerase Chain Reaction, qualitative (Target region: SARS-CoV-2: E gene, N2 and RdRP gene, Influenza A virus: M, PB2 and PA gene, Influenza B virus: M and NS gene, RSV: RSV A and RSV B nucleocapsid gene)</p> <p>Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2), Influenza A Virus, Influenza B Virus and Respiratory Syncytial Virus (RSV) – detection by Reverse Transcription and Real-Time Polymerase Chain Reaction, qualitative (Target region: SARS-CoV-2: E gene, N2, Influenza A virus: M, PB2 and PA gene, Influenza B virus: M and NS gene, RSV: RSV A and RSV B nucleocapsid gene)</p> <p>Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2) – detection by Reverse Transcription and Real Time Polymerase Chain Reaction, qualitative (Target region: E gene and N gene)</p>	<p>Nucleic acid extraction by EMAG, MagNA Pure 96 automated nucleic acid extraction system Method as documented in MP-OP-MyPn</p> <p>Cepheid Xpress SARS-CoV-2 Assay Nucleic acid amplification and detection of SARS-CoV-2 Viral RNA in Cepheid GeneXpert System Method as documented in MP-OP-SARS-CoV-2-GX</p> <p>Cepheid Xpress SARS-CoV-2/Flu/RSV Assay <i>plus</i> Nucleic acid amplification and detection of SARS-CoV-2 / Flu/RSV Viral RNA in Cepheid GeneXpert System, Method as documented in MP-OP-SARS-CoV-2-GX</p> <p>Cepheid Xpress SARS-CoV-2/Flu/RSV Assay Nucleic acid amplification and detection of SARS-CoV-2 / Flu/RSV Viral RNA in Cepheid GeneXpert System, Method as documented in MP-OP-SARS-CoV-2-GX</p> <p>LightMix® Kit SARS-CoV-2 E+N UBC Assay Nucleic acid extraction by EMAG, KingFisher Flex System, MagNA Pure 96 automated nucleic acid extraction system Nucleic acid amplification and detection using Roche LightCycler 480 II machine Method as documented in MP-OP-SARS-CoV-2-LC</p>

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Medical Genetics (cont'd)	Molecular Genetics (microbiology) (cont'd) Respiratory samples (cont'd)	Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2) – detection by Reverse Transcription and Real Time Polymerase Chain Reaction, qualitative (Target region: Orf1ab gene and E gene)	Cobas 6800 System SARS CoV 2 Assay Method as documented in MP-OP-SARS-CoV-2-6800
		Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2) – detection by Reverse Transcription and Real Time Polymerase Chain Reaction, qualitative (Target region: RdRp gene and N gene)	Alinity M System SARS-CoV-2 Assay Method as documented in MP-OP-Alinity m
	Upper respiratory samples	Multiple respiratory pathogens - Detection and identification by Multiplex Polymerase Chain Reaction, qualitative (Viruses) - Adenovirus - Coronavirus 229E - Coronavirus HKU1 - Coronavirus NL63 - Coronavirus OC43 - Middle East Respiratory Syndrome Coronavirus (MERS-CoV) - SARS-CoV-2 - Human metapneumovirus - Human rhinovirus /enterovirus - Influenza A virus - Influenza A virus / H1 - Influenza A virus / H3 - Influenza A virus / H1-2009 - Influenza B virus - Parainfluenza virus 1 - Parainfluenza virus 2 - Parainfluenza virus 3 - Parainfluenza virus 4 - Respiratory syncytial virus (Bacteria) - <i>Bordetella paraptussis</i> - <i>Bordetella pertussis</i> - <i>Chlamydia pneumoniae</i> - <i>Mycoplasma pneumoniae</i> (Target regions: proprietary)	BioFire Respiratory 2.1 (RP2.1 plus) Panel Method as documented in MP-OP-FARP2

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Medical Genetics (cont'd)	Molecular Genetics (microbiology) (cont'd) Bronchoalveolar Lavage (BAL), sputum endotracheal aspirate (ETA)	Pneumonia pathogens – detection and Identification by Multiplex Polymerase Chain Reaction (Bacteria) <ul style="list-style-type: none"> - <i>Acinetobacter calcoaceticus</i>- <i>baumannii</i> complex - <i>Enterobacter cloacae</i> complex - <i>Escherichia coli</i> - <i>Haemophilus influenzae</i> - <i>Klebsiella aerogenes</i> - <i>Klebsiella oxytoca</i> - <i>Klebsiella pneumoniae</i> group - <i>Moraxella catarrhalis</i> - <i>Proteus</i> spp. - <i>Pseudomonas aeruginosa</i> - <i>Serratia marcescens</i> - <i>Staphylococcus aureus</i> - <i>Streptococcus agalactiae</i> - <i>Streptococcus pneumoniae</i> - <i>Streptococcus pyogenes</i> - <i>Chlamydia pneumoniae</i> - <i>Legionella pneumophila</i> - <i>Mycoplasma pneumoniae</i> (Viruses) <ul style="list-style-type: none"> - Adenovirus - Coronavirus - Human metapneumovirus - Human rhinovirus/enterovirus - Influenza A virus - Influenza B virus - Parainfluenza virus - Respiratory syncytial virus (Antimicrobial Resistance Genes) <ul style="list-style-type: none"> - Carbapenemases (IMP, KPC, NDM OXA-48-like, VIM) - ESBL (CTX-M) - Methicillin resistance (mecA/C and MERJ) (Target regions: proprietary)	BioFire FilmArray Pneumonia (PN) Panel plus Method as documented in MP-OP-FAPN

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Medical Genetics (cont'd)	Molecular Genetics (anatomical pathology) Histological and cytological specimen	Epidermal growth factor receptor (EGFR) Exons 18- 21 mutation by Real-time Polymerase Chain Reaction	therascreen® EGFR RGQ PCR Kit Method as documented in MP-OP-EGFR
		KRAS and NRAS genes Exons 2, 3, and 4 mutations by Real-time Polymerase Chain Reaction and Sanger sequencing	Idylla System using Idylla™ KRAS Mutation Assay and Idylla™ NRAS-BRAF Mutation Assay
		EDTA Blood	
	Molecular Genetics (haematology) EDTA Blood	Epidermal growth factor receptor (EGFR) Exons 18- 21 mutation by Real-time Polymerase Chain Reaction	Roche Cobas Z480 using cobas® EGFR Mutation Test v2
		Epidermal growth factor receptor (EGFR) Exons 18- 21 mutation by Digital Polymerase Chain Reaction	Digital PCR using in-house assay as documented in MP-OP-cfEGFR dPCR
		JAK2 V617F Mutation by Polymerase Chain Reaction	Method as documented in MP-OP-JAK2
		Alpha globin genotyping by Polymerase Chain Reaction	Method as documented in MP-OP-AT1 and MP-OP-AT2 and MP-OP-AT3

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Medical Genetics (cont'd)	Molecular Genetics (chemical pathology) EDTA Blood	<p>Nudix hydrolase 15 (NUDT15) gene mutation by Polymerase Chain Reaction and Sanger sequencing</p> <p>ATP7B mutations in Wilson disease by Polymerase Chain Reaction (PCR) and Sanger sequencing (Target region: all coding exons)</p> <p>Nudix hydrolase 15 (NUDT15) c.415C>T variant by - Amplification Refectory Mutation System Polymerase Chain Reaction (ARMS PCR) - Restriction Fragment Length Polymorphism (RFLP)</p> <p>Thiopurine S- methyltransferase (TPMT) c.719A>G variant by - Amplification Refectory Mutation System Polymerase Chain Reaction (ARMS PCR) - Restriction Fragment Length Polymorphism (RFLP)</p> <p>BRCA germline mutation detection by MLPA and Sanger Sequencing</p>	<p>Method as documented in MP-OP-TPMT/NUDT15</p> <p>Nucleic acid extraction as documented in MP-OP-NAExT-Bld Nucleic acid amplification and post amplification processing as documented in MP-OP-ATP7B</p> <p>Nucleic acid extraction as documented in MP-OP-NAExT-Bld Nucleic acid amplification and post-amplification processing as documented in MP-OP-TPMT/NUDT15</p> <p>Nucleic acid extraction as documented in MP-OP-NAExT-Bld Nucleic acid amplification and post-amplification processing as documented in MP-OP-TPMT/NUDT15</p> <p>Nucleic acid extraction as documented in MP-OP-NAExT-Bld Nucleic acid amplification and post-amplification processing as documented in MP-OP-BRCA-germ</p>

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Chemical Pathology	Blood gases and Co-oximetry Heparinized whole blood	Blood Gas include:	
		- pCO ₂ by Potentiometry (pCO ₂ Sensing Electrode)	Siemens RapidLab 1265 System
		- pH by Potentiometry (Ion-Selective Electrode)	Siemens RapidLab 1265 System
		- pO ₂ by Polarography (Oxygen Sensing Amperometric Electrode)	Siemens RapidLab 1265 System
		- Bicarbonate by Auto calculation	Siemens RapidLab 1265 System
		- Base Excess by Auto calculation	Siemens RapidLab 1265 System
		- O ₂ Saturation by Auto calculation	Siemens RapidLab 1265 System
		Carboxyhaemoglobin by Co-oximetry	Siemens RapidLab 1265 System
		Methaemoglobin by Co-oximetry	Siemens RapidLab 1265 System
	General Chemistry Heparinized plasma	Alanine Aminotransferase (ALT) by Spectrophotometry	Abbott Architect c16000 System, ALT assay
		Albumin by Spectrophotometry	Abbott Architect c16000 System, AlbBCG2 assay
		Alkaline Phosphatase (ALP) by Spectrophotometry	Abbott Architect c16000 System, AlkP assay
		Ammonia by Spectrophotometry	Abbott Architect c16000 System, Amm assay
	EDTA plasma		
	Heparinized plasma	Amylase by Spectrophotometry	Abbott Architect c16000 System, AMY2 assay
		Bilirubin - Total by Spectrophotometry	Abbott Architect c16000 System, BiliT assay

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Chemical Pathology (cont'd)	General Chemistry (cont'd) Heparinized plasma (cont'd) Low heparinized whole blood	Calcium by Spectrophotometry	Abbott Architect c16000 System, CaC assay
		Calcium, ionized by Potentiometry (Ion-Selective Electrode)	Siemens RapidLab 1265 System
		Chloride by Potentiometry (Ion-Selective Electrode)	Abbott Architect c16000 System, Chloride assay
		Cholesterol by Spectrophotometry	Abbott Architect c16000 System, Chol2 assay
		Cholesterol – high density lipoproteins (HDL) by Spectrophotometry	Abbott Architect c16000 System, UHDL assay
		Creatine Kinase (CK) by Spectrophotometry	Abbott Architect c16000 System, CK assay
		Creatinine by Spectrophotometry	Abbott Architect c16000 System, Crea2 assay
		Estimated GFR by Calculation	Calculated from plasma creatinine
		Gamma Glutamyl Transpeptidase (GGT) by Spectrophotometry	Abbott Architect c16000 System, GGT2 assay
		Globulin by Calculation	Calculated from plasma Total Protein and Albumin
	Fluoride plasma, CSF	Glucose by Spectrophotometry	Abbott Architect c16000 System, GluC assay
	Heparinized plasma	Iron by Spectrophotometry	Abbott Architect c16000 System, Iron2 assay

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Chemical Pathology (cont'd)	General Chemistry (cont'd) Heparinized plasma (cont'd)	Iron Saturation by Calculation	Calculated from plasma Iron and TIBC
		Lactate dehydrogenase (LDH) by Spectrophotometry	Abbott Architect c16000 System, LDH2 assay
		LDL cholesterol by Calculation	Calculated from Cholesterol, HDL Cholesterol and Triglycerides
	Serum	Osmolality by Freezing Point Depression	A2O Advanced Automated Osmometer
	Heparinized plasma	Phosphate by Spectrophotometry	Abbott Architect c16000 System, Phos assay
		Potassium by Potentiometry (Ion-Selective Electrode)	Abbott Architect c16000 System, Potassium assay
		Protein, Total by Spectrophotometry	Abbott Architect c16000 System, TPRO2 assay
	CSF	Protein, Total by Spectrophotometry	Abbott Architect c16000 System, UPro assay
	Heparinized plasma	Sodium by Potentiometry (Ion-Selective Electrode)	Abbott Architect c16000 System, Sodium assay
		Total Iron Binding Capacity (TIBC) by Calculation	Calculated from plasma Iron and UIBC
		Triglycerides by Spectrophotometry	Abbott Architect c16000 System, Trig2 assay
		Troponin I by Immunoassay (Chemiluminescent label)	Abbott Architect i2000SR System, STAT hsTNI assay
		Unsaturated Iron Binding Capacity (UIBC) by Spectrophotometry	Abbott Architect c16000 System, UIBC assay

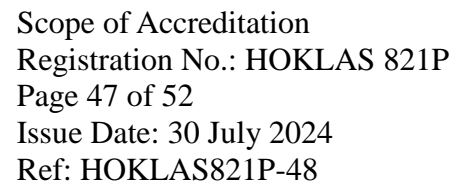
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Chemical Pathology (cont'd)	General Chemistry (cont'd) Heparinized plasma (cont'd)	Urate by Spectrophotometry	Abbott Architect c16000 System, Uric2 assay
		Urea by Spectrophotometry	Abbott Architect c16000 System, Urea2 assay
	Urine (spot, 24-hour)	Calcium by Spectrophotometry	Abbott Architect c16000 System, CaC assay
		Creatinine by Spectrophotometry	Abbott Architect c16000 System, Crea2 assay
	Urine (spot)	Osmolality by Freezing Point Depression	A2O Advanced Automated Osmometer
	Urine (spot, 24-hour)	Phosphate by Spectrophotometry	Abbott Architect c16000 System, Phos assay
		Potassium by Potentiometry (Ion-Selective Electrode)	Abbott Architect c16000 System, Potassium assay
		Protein, Total by Spectrophotometry	Abbott Architect c16000 System, UPro assay
		Sodium by Potentiometry (Ion-Selective Electrode)	Abbott Architect c16000 System, Sodium assay
		Urine Protein/Creatinine ratio by Calculation	Calculated from urine Protein and urine Creatinine
		Urate by Spectrophotometry	Abbott Architect c16000 System, Uric2 assay
		Urea by Spectrophotometry	Abbott Architect c16000 System, Urea2 assay
		Urine Urea/Creatinine ratio by Calculation	Calculated from urine Urea and urine Creatinine



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Chemical Pathology (cont'd)	Toxicology Heparinized plasma	Acetaminophen by Spectrophotometry	Abbott Architect c16000 System, Aceta assay
		Ethanol by Spectrophotometry	Abbott Architect c16000 System, EtohM assay
		Salicylate by Spectrophotometry	Abbott Architect c16000 System, Sali assay

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Haematology	Coagulation Citrate blood	Coagulation studies, automated including - Prothrombin Time (PT) - Activated partial thromboplastin time (APTT)	ACL TOP 350
	Haematology – General EDTA whole blood	Complete blood count including: - Haemoglobin - Haematocrit - Leucocyte count (WBC count) - Mean corpuscular volume (MCV) - Mean corpuscular haemoglobin concentration (MCHC) - Mean corpuscular haemoglobin (MCH) - Platelet count - Red cell count - Red cell distribution width (RDW) - Mean Platelet Volume (MPV)	Sysmex XN9100

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Haematology (cont'd)	Haematology – General (cont'd) EDTA whole blood (cont'd)	Erythrocyte Sedimentation Rate (ESR) by Automated method	Method as documented in RLRH001 using Diesse Vesmatic 30
		Leucocyte differential count by Automated method	Sysmex XN9100
		Peripheral blood smear examination by May – Grunwald Giemsa stain	Sysmex SP-50
		Reticulocyte count, automated by Polymethine dye	Sysmex XN9100
		Reticulocyte Count (Manual) by New Methylene Blue	Method as documented in RLRH 004
	Haematology – Special EDTA marrow blood, aspirate, clot, trephine	Bone Marrow Examination	Method as documented in RLRH 004: Specimen preparation and routine staining as documented in RLRH 004 Marrow smear by May Grunwald – Giemsa and Perl's Prussian Blue stain Peripheral blood smear by May Grunwald– Giemsa or Wright – Giemsa stain
		EDTA whole blood Malaria parasite examination by Thick and thin films	Specimen preparation and routine staining as documented in RLRH 004

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Haematology (cont'd)	Blood bank – General Clotted blood and EDTA blood	ABO and Rh(D) typing by Direct agglutination	Method as documented in BB-SOP-TEST
		ABO and Rh (D) typing by - Red Cell Agglutination, automated	Method as documented in BB-SOP-IH1000 using Bio-Rad IH1000
		Antibody screening by - Red Cell Agglutination, manual	Method as documented in BB-SOP-TEST using Bio-Rad reagents
		- Red Cell Agglutination, automated	Method as documented in BB-SOP-IH1000 using Bio-Rad IH1000
		- Saline-Indirect antiglobulin test	Method as documented in BB-SOP-TEST
		Crossmatch by - Computer crossmatch	Method as documented in BB-SOP-GLP and BB-SOP-TEST
		- Immediate spin	Method as documented in BB-SOP-GLP and BB-SOP-TEST
		- Saline-Indirect antiglobulin test	Method as documented in BB-SOP-TEST
		- Red Cell Agglutination, manual	Method as documented in BB-SOP-TEST using Bio-Rad reagents
		- Red Cell Agglutination, automated	Method as documented in BB-SOP-IH1000 using Bio-Rad IH1000
	Blood bank – Immunohaematology EDTA Blood	Red cell phenotyping by - Rec Cell Agglutination, automated	Method as documented in BB-SOP-IH1000 using Bio-Rad IH1000
		Direct antiglobulin test (DAT) by - Conventional method	Method as documented in BB-SOP-TEST
		- Red Cell Agglutination, manual	Method as documented in BB-SOP-TEST using Bio-Rad reagents
		Investigation of ABO Blood Group Anomaly	Method as documented in BB-SOP-GLP
	Blood bank – Special Clotted blood and EDTA blood	Transfusion reaction, including - ABO and Rh(D) typing	Method as documented in BB-SOP-GLP
		- Crossmatching	

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Clinical Microbiology and Infection	Bacteriology – culture and sensitivity tests and/or microscopy CSF	Microscopy for <ul style="list-style-type: none"> - Cell count by Counting chamber - Microorganisms by Gram Stain - Encapsulated yeast by India Ink Stain 	Method as documented in CM-SOP-UMSCL Method as documented in CM-SOP-STAIN Method as documented in CM-SOP-STAIN
	Mycobacteriology – Microscopy CSF, Respiratory Specimens, Urine, Sterile Body Fluid, Tissue and Miscellaneous Specimens	Microscopy for acid fast bacilli (AFB) by <ul style="list-style-type: none"> - Auramine O fluorescent stain, manual - Ziehl-Neelsen stain - Auramine O fluorescent stain by Automated method 	Method as documented in CM-SOP-TB Märzhäuser Wetzlar SlideExpress 2 for Nikon Eclipse Ni-E
	Mycobacteriology – Culture CSF, Respiratory Specimens, Urine Sterile Body Fluid, Tissue and Miscellaneous Specimens	Culture for acid fast bacilli (AFB) by Conventional method	Method as documented in CM-SOP-TB



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Summary of Voluntary Suspension

.vs. denotes the examination for which accreditation has been voluntarily suspended with effect from 1 June 2024 (Notification Letter No. HOKLAS821P-47).