

**GHK Hospital Limited – Gleneagles Hospital Hong Kong, Department of Clinical Laboratory**  
**港怡醫院 - 臨床化驗部**

**ADDRESS** : LG/F, Gleneagles Hospital Hong Kong, 1 Nam Fung Path, Wong Chuk Hang,  
**地址** Hong Kong  
香港黃竹坑南風徑一號港怡醫院地下下一層

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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



Scope of Accreditation  
Registration No.: HOKLAS 842S  
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G/F, Gleneagles Hospital Hong Kong, 1 Nam Fung Path, Wong Chuk Hang, Hong Kong  
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**LABORATORY** : **Biomedical Scientist Director 醫務科學主管:**  
**DIRECTOR** Mr TSANG Kwong-cheong  
**化驗所主管** 曾廣昌先生  
MSc, BSc, Reg Part I MLT (HK)

**ACCREDITED TEST** : **Medical Testing 醫務化驗**  
**CATEGORY** 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  
Molecular Genetics (microbiology) 分子遺傳學(微生物學)

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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	<b>Cytopathology</b>		
	Fine needle aspirates	Fine needle aspiration cytology examination by H&E, Papanicolaou and Giemsa staining	Specimen collection as documented in WI-GLAB-208
	Gynaecological specimens	Gynaecological cytology examination by Papanicolaou staining	Specimen preparation and staining as documented in WI-GLAB_402 and WI-GLAB_403
	Non-gynaecological specimens	Non-gynaecological cytology examination by H&E and Papanicolaou staining	Specimen preparation as documented in WI-GLAB_402 Staining method as documented in WI-GLAB_403

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<b>Anatomical Pathology</b> (cont'd)	<b>Histopathology</b> Surgical pathology and cytological specimens	Histology examination by H&E and special staining	Specimen preparation as documented in WI_GLAB_006, WI_GLAB_301, WI_GLAB_307, WI_GLAB_312, WI_GLAB_314 Specimen fixation using 10% neutral buffered formalin Tissue processing using Thermo Scientific Excelsior AS tissue processor H&E staining using Dako CoverStainer autostainer  Special staining (manual method): Method as documented in WI_GLAB_317 Special staining (automated method): Dako Artisan Link Pro autostainer Method as documented in WI_GLAB_318 Acid fast bacilli by Ziehl Neelsen Amyloid by Highman's Congo Red Gram positive and negative bacteria by Gram stain Collagen and muscle by Masson's Trichrome Glycol groups by Periodic Acid Schiff Periodate reactive carbohydrates by Periodic Acid Schiff + Digest (α-Amylase) Mucin and capsule of Cryptococcus by Southgate's mucicarmine Fungus and PCP by Grocott hexamine silver Acidic mucin by Alcian blue (pH 2.5) Hepatitis B surface antigen and copper-associated proteins by Orcein Reticulin by Gordon & Sweet's Reticulin Basement membrane by Periodic acid silver Methenamine Helicobacter pylori and spirochetes by Warthin Starry Hemosiderin by Perls' prussian blue (Fe) Elastic fibre and connective tissue by Verhoeff's Van Gieson (EVG)
	Intra-operative frozen section for fresh tissue specimens and biopsies	Histology examination by H&E staining	Specimen preparation and H&E staining (manual) as documented in WI_GLAB_302

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Anatomical Pathology (cont'd)	Histopathology (cont'd) Histological specimens	Immunohistochemical examination for various antigen markers by Automated staining method	<p>Slide staining using Dako Link Omnis Workstation automated immuno-stainer Detection system: Dako EnVision FLEX detection kit Antigen retrieval: On board retrieval with Dako EnVision FLEX kit high pH retrieval buffer On board retrieval with Dako EnVision FLEX kit low pH retrieval buffer Slide preparation and staining procedure as documented in WI_GLAB_302</p> <p>Slide staining using Leica Bond III automated immune-stainer Detection system: Leica Bond Polymer Refine Detection Kit Antigen retrieval: On board heat-mediated antigen retrieval with Leica Bond Epitope Retrieval 1 On board heat-mediated antigen retrieval with Leica Bond Epitope Retrieval 2 Slide preparation and staining procedure as documented in WI_GLAB_319</p>

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Chemical Pathology	General Chemistry Lithium heparinised plasma	Alanine aminotransferase (ALT) by Spectrophotometry	Siemens Atellica CH System Alanine aminotransferase P5P (ALTPLc) Assay
		Albumin (ALB) by Spectrophotometry	Siemens Atellica CH System Albumin BCP (AlbP) Assay
		Alkaline phosphatase (ALP) by Spectrophotometry	Siemens Atellica CH System Alkaline Phosphatase, concentrated (ALP_2c) Assay
		Aspartate aminotransferase (AST) by Spectrophotometry	Siemens Atellica CH System Aspartate transferase P5P (ASTPLc) Assay
		Bilirubin, Total (TBIL) by Spectrophotometry	Siemens Atellica CH System Total Bilirubin_2 (TBil_2) Assay
		Chloride by Indirect potentiometry	Siemens Atellica CH System Chloride Assay
		Creatinine by Spectrophotometry	Siemens Atellica CH System Enzymatic Creatinine_3 (ECre3) Assay
		Gamma-Glutamyl Transferase (GGT) by Spectrophotometry	Siemens Atellica CH System Gamma-Glutamyl Transferase (GGT) Assay
		Globulin by Calculation	Siemens Atellica CH System (calculated from Total Protein and Albumin)
		Glucose by Spectrophotometry	Siemens Atellica CH System Glucose Hexokinase_3 (GluH_3) Assay
		Potassium by Indirect potentiometry	Siemens Atellica CH System Potassium Assay

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Chemical Pathology (cont'd)	General Chemistry (cont'd)		
	Lithium heparinised plasma (cont'd)	Protein, Total by Spectrophotometry	Siemens Atellica CH System Total Protein II (TP) Assay
		Sodium by Indirect potentiometry	Siemens Atellica CH System Sodium Assay
		Urea by Spectrophotometry	Siemens Atellica CH System Urea Nitrogen (UN_c) Assay
	Hormones		
	Serum	Thyroid stimulating hormone (TSH) by Immunoassay (Chemiluminescent label)	Siemens Atellica IM System TSH3UL (TSH3-UL) Assay
		Thyroxine, Free (FT4) by Immunoassay (Chemiluminescent label)	Siemens Atellica IM System FT4 (Free Thyroxine) Assay
	Special Chemistry		
	EDTA blood	Haemoglobin A1c (HbA1c) by Ion-exchange High Performance Liquid Chromatography	BioRad Variant II Turbo 2.0 The Variant II Turbo Haemoglobin A1 (HbA1c) Assay
	Tumour markers		
	Serum	AFP by Immunoassay (Chemiluminescent label)	Siemens Atellica IM System AFP (Alpha Fetoprotein) Assay
		CA 19-9 by Immunoassay (Chemiluminescent label)	Siemens Atellica IM System CA19_9 (CA 19-9) Assay

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Clinical Microbiology and Infection	<b>Bacteriology – Culture and sensitivity tests and/or microscopy</b>		
	Urine	Culture and antimicrobial susceptibility tests for pathogens by Standard loop method	Culture: Method as documented in WI_GLAB_825 Antimicrobial susceptibility tests: Method as documented in SOP_GLAB_801 and WI_GLAB_851
	Clinical isolates	Identification of clinical isolates by - Conventional identification method - MALDI-TOF Mass Spectrometry	Method as documented in WI_GLAB_825 and WI_GLAB_874 bioMerieux VITEK MS
	Urine	Antimicrobial susceptibility test for pathogen by Broth microdilution	Thermo Scientific Sensititre ARIS HiQ System Antimicrobial susceptibility test: Method as documented in WI_GLAB_880
	<b>Syphilis - Serology</b>		
	Serum	Syphilis antibody by Immunoassay (Chemiluminescent label)	Abbott Alinity i Syphilis TP assay Siemen Atellica Syphilis assay
	<b>Virology - Serology</b>		
	Serum	Hepatitis B virus antigen (HBsAg) by Immunoassay (Chemiluminescent label)	Abbott Alinity i HBsAg Next qualitative assay Abbott Alinity i HBsAg Next confirmatory assay Siemens Atellica HBsAg II assay Siemens Atellica HBsAg confirmation assay
		Hepatitis C virus antibody by Immunoassay (Chemiluminescent label)	Abbott Alinity i Anti-HCV assay Siemens Atellica HCV assay
		Human immunodeficiency virus (HIV) Ag/Ab Combo by Immunoassay (Chemiluminescent label)	Abbott Alinity i HIV Ag/Ab Combo assay Siemens Atellica HIV Ag/Ab Combo assay



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Medical Genetics	<b>Molecular Genetics (microbiology)</b>  Deep throat saliva, nasopharyngeal swab, nasal swab and throat swab	Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2) – detection by  Real time Multiplex Polymerase Chain Reaction, qualitative (Target regions: E gene, N2 gene and RdRP gene)  (Target regions: ORF1ab gene and N gene)  (Target regions: ORF1ab gene and N gene)	Xpert Xpress SARS-CoV-2 plus Nucleic acid extraction, amplification and detection as documented in WI_GLAB_903  Sansure Biotech Novel Coronavirus (2019-nCoV) Nucleic Acid Diagnostic Kit Nucleic acid extraction, amplification and detection as documented in WI_GLAB_903  Cobas SARS-CoV-2 & Influenza A/B Nucleic acid extraction, amplification and detection as documented in WI_GLAB_875

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Haematology	<b>Blood Bank - General</b> EDTA blood	<p>ABO and Rh(D) typing, automated by Red cell agglutination</p> <p>ABO and Rh(D) typing, manual by Red cell agglutination</p> <p>Antibody screening, automated by Red cell agglutination</p> <p>Antibody screening, manual by Red cell agglutination</p> <p>Crossmatch by</p> <ul style="list-style-type: none"> <li>- Computer crossmatch</li> <li>- Immediate spin</li> <li>- Red cell agglutination</li> <li>- Saline indirect antiglobulin test</li> </ul>	<p>Automated Bio-Rad IH500 Method as documented in WI_GLAB_703, WI_GLAB_716</p> <p>Method as documented in WI_GLAB_704</p> <p>Automated Bio-Rad IH500 Method as documented in WI_GLAB_703, WI_GLAB_716</p> <p>Method as documented in WI_GLAB_704</p> <p>Automated Bio-Rad IH500 Method as documented in WI_GLAB_703, WI_GLAB_716</p> <p>Method as documented in WI_GLAB_704</p> <p>Automated Bio-Rad IH500 Method as documented in WI_GLAB_703, WI_GLAB_704, WI_GLAB_716</p> <p>Automated Bio-Rad IH500 Method as documented in WI_GLAB_703, WI_GLAB_704, WI_GLAB_716</p>
	<b>Coagulation</b> Citrate blood	<p>Coagulation studies by</p> <p>Automated method, including</p> <ul style="list-style-type: none"> <li>- Activated partial thromboplastin time (APTT)</li> <li>- Prothrombin Time (PT) and</li> <li>- International Normalised Ratio (INR)</li> </ul>	<p>Automated coagulation system: IL ACL Top 300 coagulation system</p>

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Haematology (cont'd)	Haematology – General EDTA blood	Complete blood count including <ul style="list-style-type: none"> <li>- Haemoglobin (HGB)</li> <li>- Haematocrit (HCT)</li> <li>- Leucocyte count (WBC count)</li> <li>- Leucocyte differential count</li> <li>- Mean corpuscular haemoglobin (MCH)</li> <li>- Mean corpuscular haemoglobin concentration (MCHC)</li> <li>- Mean corpuscular volume (MCV)</li> <li>- Platelet count</li> <li>- Red cell count</li> <li>- Red cell distribution width (RDW)</li> </ul>	Sysmex XR-3000 Method as documented in WI_GLAB_766