



**Bureau of Laboratory Quality Standards  
Ministry of Public Health**

This is to certify that

**The laboratory of**

**Division of Microbiology,  
King Chulalongkorn Memorial Hospital**

**1873 Rama 4 Road, Pathumwan,  
Bangkok 10330, Thailand**

has been accepted as an  
accredited laboratory complying with the ISO 15189 : 2012  
and the requirements of the Bureau of Laboratory Quality Standards

The laboratory has been accredited for specific tests  
listed in the scope within the field of

**Medical Laboratory**

A handwritten signature in blue ink, reading 'Patravee Soisangwan'.

**(Dr. Patravee Soisangwan)**

**Director of Bureau of Laboratory Quality Standards**

**Date of Accreditation : 18 August 2021**

**Valid Until : 17 August 2025**

**Accreditation Number 4112/55**





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**1873 Rama 4 Road, Pathumwan,  
Bangkok 10330, Thailand**

has been accepted as an  
accredited laboratory complying with the ISO 15190 : 2003  
and the requirements of the Bureau of Laboratory Quality Standards  
within the field of

**Medical Laboratory Safety**

**(Dr. Patavee Soisangwan)**

**Director of Bureau of Laboratory Quality Standards**

**Date of Accreditation : 18 August 2021**

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**Accreditation Number 4112/55**

The Laboratory of Division of Microbiology, King Chulalongkorn Memorial Hospital has been accepted as an accredited laboratory in the field of Medical Laboratory for the following scopes.

No.	Type of Sample	Test	Method
<b>Laboratory of Bacteriology</b>			
1.	CSF, Urine, Sputum, Stool & Rectal Swab, Throat Swab, Urethral Swab, Vaginal, Cervical Swab, Endotracheal Aspirate, Nasopharyngeal Swab, Ear Swab, Eye Swab, Nose Swab, Conjunctiva, Corneal Scrap, Pus Swab, Catheter Tip, Body Fluids and Isolated Colony	Aerobic culture with AST (MB001)	<ul style="list-style-type: none"> <li>- Culture</li> <li>- Isolation</li> <li>- Identification (Biochemical Test: Conventional And Commercial Kit using VITEK®2 and VITEK® MS)</li> <li>- Serology Test</li> <li>- Disk Diffusion Test</li> <li>- E-Test</li> </ul>
2.	CSF, Urine, Sputum, Urethral Swab, Vaginal Swab, Cervical Swab, Endotracheal Aspirate, Ear Swab, Eye Swab, Conjunctival Scrap, Cornea Scrap, Body Fluids And Pus Swab	Gram Stain (MB015)	<ul style="list-style-type: none"> <li>- Gram Stain</li> <li>- Microscopic Examination</li> </ul>



The Laboratory of Division of Microbiology, King Chulalongkorn Memorial Hospital has been accepted as an accredited laboratory in the field of Medical Laboratory for the following scopes.

No.	Type of Sample	Test	Method
3.	Blood	Blood Culture: Aerobic Bacteria (MB059)	<ul style="list-style-type: none"> <li>- Culture using BD BACTEC™ Blood Culture</li> <li>- Isolation</li> <li>- Identification (Biochemical Test: Conventional and Commercial Kit using VITEK®2 and VITEK® MS)</li> <li>- Serology Test</li> <li>- Disk Diffusion Test</li> <li>- E-Test</li> </ul>
4.	Aerobic bacteria pure culture	Special identification for bacteria (MB022)	<ul style="list-style-type: none"> <li>- Culture using BD BACTEC™ Blood Culture</li> <li>- Isolation</li> <li>- Identification (Biochemical Test: Conventional and Commercial Kit using VITEK®2 and VITEK® MS)</li> <li>- Serology Test</li> <li>- Disk Diffusion Test</li> <li>- E-Test</li> </ul>
5.	Serum	<i>C. pneumoniae</i> IgG Ab (MB 010)	Micro-Immuno Fluorescence Assay (MIF)

Bureau of Laboratory Quality Standards

Page 2 of 28

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Reviewed by Head of Laboratory Accreditation Section ..... (Mr.Surasak Muenphon)



The Laboratory of Division of Microbiology, King Chulalongkorn Memorial Hospital has been accepted as an accredited laboratory in the field of Medical Laboratory for the following scopes.

No.	Type of Sample	Test	Method
6.	Serum	<i>C. pneumoniae</i> IgM Ab (MB 011)	Micro-Immuno Fluorescence Assay (MIF)
<b>Laboratory of Anaerobe</b>			
7.	Stool	<i>Clostridium difficile</i> toxin A&B (MB013)	Enzyme Immunoassay (EIA)
8.	Blood, Bone Marrow, Bile, Bladder Urine, Suprapubic Aspirate, CSF, Pericardial, Peritoneal, Pleural, Deep Bronchial Secretion, Joint Fluid, Synovial Fluid, Tissue Biopsy	Anaerobic Culture (MB005)	<ul style="list-style-type: none"> <li>- Anaerobic culture</li> <li>- Isolation</li> <li>- Identification (conventional method and Commercial Kit using VITEK®2 and VITEK® MS)</li> <li>- E-Test</li> </ul>
9.	Blood	Blood Culture: Anerobic Bacteria (MB060)	<ul style="list-style-type: none"> <li>- Culture using BD BACTEC™ Blood Culture</li> <li>- Isolation</li> <li>- Identification (Biochemical Test: Conventional and Commercial Kit using VITEK®2 and VITEK® MS)</li> <li>- E-Test</li> </ul>

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No.	Type of Sample	Test	Method
<b>Laboratory of Mycobacteriology</b>			
10.	Blood, CSF, Urine, Sputum, Stool, Urethral Swab, Vaginal Swab, Cervical Swab, Endotrachial Aspirate, Ear Swab, Eye Swab, Nose Swab, Conjunctival Scrap, Cornea Scrap, Body Fluids and Pus Swab	Acid Fast Bacilli Stain (MB004)	<ul style="list-style-type: none"> <li>- Culture</li> <li>- Isolation</li> <li>- Microscopic examination</li> </ul>
11.	CSF, Urine, Sputum, Urethral Swab, Vaginal Swab, Cervical Swab, Endotrachial Aspirate, Ear Swab, Eye Swab, Nose Swab, Conjunctival Scrap, Cornea Scrap, Body Fluids, Pus Swab	<i>Mycobacterium</i> culture and AST (Automate : I,R,S,E) (MB002)	<ol style="list-style-type: none"> <li>1. Culture</li> <li>2. Isolation</li> <li>3. Identification: <ul style="list-style-type: none"> <li>- Line probe assay (Reverse-Hybridization Techniques)</li> </ul> </li> <li>4. AST for <i>Mycobacterium tuberculosis</i> using BACTEC MGIT 960 System</li> </ol>
12.	Blood, body fluid in Myco/F lytic culture vial	<i>Mycobacterium</i> culture: Blood, body fluid (MB029)	<ol style="list-style-type: none"> <li>1. Culture</li> <li>2. Isolation</li> <li>3. Identification: <ul style="list-style-type: none"> <li>- Line probe assay (Reverse-</li> </ul> </li> </ol>



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No.	Type of Sample	Test	Method
			Hybridization Techniques) 4. AST for <i>Mycobacterium tuberculosis</i> using BACTEC MGIT 960 System
13.	Isolated organism (Positive for AFB Stain)	Identification of Mycobacterium species (Line probe assay) (MB068)	Line probe assay (Reverse-Hybridization Techniques)
14.	Isolated organism MTBC Positive MGIT tube	MTBC : AST (Automate: I,R,S,E) (MB072)	AST using BACTEC MGIT 960 System
15.	Isolated organism MTBC Positive MGIT tube	MTBC : AST (Automate: Z) (MB074)	AST using BACTEC MGIT 960 System
<b>Laboratory of Molecular Bacteriology</b>			
16.	1. Respiratory secretion: sputum, bronchoalveolar lavage (BAL) , endotracheal suction 2. Blood, bone marrow aspirate 3. Body fluid: pleural fluid, CSF, pericardial effusion 4. Pus 5. Tissue: fresh tissue,	PCR for MTBC (MB020)	Real-time PCR Anyplex MTB/NTM Real-time Detection (V2.0)

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No.	Type of Sample	Test	Method
	paraffin-embedded tissue 6. Urine 7. Feces		
<b>Laboratory of Mycology</b>			
17.	CSF, lymph node, Pus	India Ink Preparation (MF005)	Direct Wet Mount
18.	Skin, Hair, Nail, Tissue biopsy, Pus, Lymph node, BAL, Smear Slide	KOH Preparation (MF006)	Direct Wet Mount
19.	CSF, Urine, Sputum, Stool & Rectal swab, Throat swab, Urethral swab, Vaginal swab, Cervical swab, Endotracheal Aspirate, Nasopharyngeal swab, Ear Swab, Eye Swab, Nose Swab, Conjunctiva, Corneal Scrap, Pus Swab, Catheter Tip, Body Fluids, Hair, Skin, Nail, Other	Fungus culture (MF003)	- Culture - Isolation - Identification (Biochemical Test: Conventional And Commercial Kit using VITEK®2 )



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No.	Type of Sample	Test	Method
20.	Clotted blood CSF	Cryptococcus antigen (LA) (MF001)	Dipstick sandwich immunochromatography for detection of Cryptococcus antigen
<b>Laboratory of Immunology</b>			
21.	Serum, Plasma	CA19-9 (MI015)	1.Electrochemiluminescence Immunoassay (ECLIA): cobas 8000, Roche
22.	Serum, Plasma, Amniotic Fluid	Alpha-fetoprotein (MI016, MI178)	1.Electrochemiluminescence Immunoassay (ECLIA): cobas 8000, Roche
23.	Serum, Plasma	Anti-HIV (MI034)	1. Electro Chemiluminescent Immunoassay (ECLIA): cobas 8000, Roche
24.	Serum, Plasma	HIVAntigen (MI036)	1.Electro Chemiluminescent Immunoassay (ECLIA): cobas e411, Roche
25.	Serum, Plasma	HBe Antigen (MI037)	1.Electro Chemiluminescent Immunoassay (ECLIA): cobas 8000, Roche
26.	Serum, Plasma	HBs Antigen (MI038)	1.Electro Chemiluminescent Immunoassay (ECLIA): cobas

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No.	Type of Sample	Test	Method
			8000, Roche
27.	Serum, Plasma	HBc Antibody (MI039)	1.Electro Chemiluminescent Immunoassay (ECLIA): cobas 8000, Roche
28.	Serum, Plasma	HBs Antibody (MI040)	1.Electro Chemiluminescent Immunoassay (ECLIA): cobas 8000, Roche
29.	Serum, Plasma	HBc IgM Antibody (MI042)	1.Electro Chemiluminescent Immunoassay (ECLIA): cobas 8000, Roche
30.	Serum, Plasma	HAV IgM Antibody (MI043)	1.Electro Chemiluminescent Immunoassay (ECLIA): cobas 8000, Roche
31	Serum, Plasma	Anti HAV (Total Ig) (MI044)	1.Electro Chemiluminescent Immunoassay (ECLIA): cobas 8000, Roche
32.	Serum, Plasma	Anti HCV (MI045)	1.Electro Chemiluminescent Immunoassay (ECLIA): cobas 8000, Roche
33.	Serum, Plasma	HBsAg quantitative (MI151)	1. Electro Chemiluminescent Immunoassay (ECLIA): cobas



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No.	Type of Sample	Test	Method
			8000, Roche
34.	Serum, Plasma	Anti HIV (Urgent) (MI035)	1. Electro Chemiluminescent Immunoassay (ECLIA): cobas 8000, Roche
35.	Serum, Plasma	HBsAg (Urgent) (MI104)	1. Electro Chemiluminescent Immunoassay (ECLIA): cobas 8000, Roche
36.	Serum, Plasma	Anti HBs (Urgent) (MI105)	1. Electro Chemiluminescent Immunoassay (ECLIA): cobas 8000, Roche
37.	Serum, Plasma	Anti HBc (Urgent) (MI106)	1. Electro Chemiluminescent Immunoassay (ECLIA): cobas 8000, Roche
38.	Serum, Plasma	Anti HCV (Urgent) (MI109)	1. Electro Chemiluminescent Immunoassay (ECLIA): cobas 8000, Roche
39.	Serum, Plasma	IgG (MI001)	1. Nephelometry, BN Prospecc Analyzer 2. Turbidimetry, COBAS 8000, ROCHE

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No.	Type of Sample	Test	Method
40.	Serum, Plasma	IgM (MI002,)	1. Nephelometry, BN Prospecc Analyzer 2. Turbidimetry, COBAS 8000, ROCHE
41.	Serum, Plasma	IgA (MI003)	1. Nephelometry, BN Prospecc Analyzer 2. Turbidimetry, COBAS 8000, ROCHE
42.	Serum, Plasma	Total IgE (MI004)	1. Nephelometry, BN Prospecc Analyzer 2. Electrochemiluminescence Immunoassay (ECLIA), COBAS 8000, ROCHE
43.	Serum, Plasma	IgG1 (MI006)	1. Nephelometry, BN Prospecc Analyzer 2. Turbidimetry, SPA PLUS
44.	Serum, Plasma	IgG2 (MI007)	1. Nephelometry, BN Prospecc Analyzer 2. Turbidimetry, SPA PLUS
45.	Serum, Plasma	IgG3 (MI008)	1. Nephelometry, BN Prospecc Analyzer 2. Turbidimetry, SPA PLUS



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No.	Type of Sample	Test	Method
46.	Serum, Plasma	IgG4 (MI009)	1. Nephelometry, BN Prospec Analyzer 2. Turbidimetry, SPA PLUS
47.	Serum, Plasma	C3 (MI013)	1. Nephelometry, BN Prospec Analyzer 2. Turbidimetry, SPA PLUS
48.	Serum, Plasma	C4 (MI014)	1. Nephelometry, BN Prospec Analyzer 2. Turbidimetry, SPA PLUS
49.	Serum, Plasma	$\beta$ 2-Microglobulin (MI017)	1. Nephelometry, BN Prospec Analyzer 2. Turbidimetry, COBAS 8000, ROCHE 3. Turbidimetry, SPA PLUS
50.	Serum, Plasma	Rheumatoid Factor (MI026)	1. Nephelometry: BN Prospec Analyzer 2. Turbidimetry, COBAS 8000, ROCHE
51.	Serum, Plasma	CRP (MI051)	1. Nephelometry: BN Prospec Analyzer 2. Turbidimetry, COBAS 8000, ROCHE

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No.	Type of Sample	Test	Method
52.	Serum, Plasma	ASO (MI054)	1. Nephelometry: BN Prospec Analyzer 2. Turbidimetry, COBAS 8000, ROCHE
53.	Serum, Plasma	Anti-DNase B (MI098)	1. Nephelometry: BN Prospec Analyzer 2. Turbidimetry, COBAS 8000, ROCHE
54.	Serum, Plasma	CRP (High sensitivity) (MI110)	1. Nephelometry: BN Prospec Analyzer 2. Electro Chemiluminescent Immunoassay (ECLIA): cobas 8000, Roche
55.	Serum	Immunofixation (MI131)	1. Immunofixation, Quick gel 2. Immunofixation, SPIFE3000 3. Immunofixation, Interlab G26
56.	Serum	Serum free light chain: Kappa (MI135)	1. Nephelometry: BN Prospec Analyzer 2. Turbidimetry, SPA PLUS
57.	Serum	Serum free light chain: Lambda (MI136)	1. Nephelometry: BN Prospec Analyzer 2. Turbidimetry, SPA PLUS



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No.	Type of Sample	Test	Method
58.	Serum	Serum Protein Electrophoresis (SPEP) (MI011)	College of American Pathologists (CAP)illary Electrophoresis
59.	Serum	Serum Immunotyping Electrophoresis (MI158)	College of American Pathologists (CAP)illary Electrophoresis
60.	Serum, Plasma	Specific IgE to Peanut (f13) (MI113)	Fluoroenzyme immunoassay (FEIA) : ImmunoCOLLEGE OF AMERICAN PATHOLOGISTS (CAP)
61.	Serum, Plasma	Specific IgE to Soya bean (f14) (MI114)	Fluoroenzyme immunoassay (FEIA) : ImmunoCOLLEGE OF AMERICAN PATHOLOGISTS (CAP)
62.	Serum, Plasma	Specific IgE to Wheat (f4) (MI115)	Fluoroenzyme immunoassay (FEIA) : ImmunoCOLLEGE OF AMERICAN PATHOLOGISTS (CAP)
63.	Serum, Plasma	Specific IgE to Fish (f3) (MI116)	Fluoroenzyme immunoassay (FEIA) : ImmunoCOLLEGE OF AMERICAN PATHOLOGISTS (CAP)
64.	Serum, Plasma	Specific IgE to Shrimp (f24)	Fluoroenzyme immunoassay

*Bureau of Laboratory Quality Standards*

*Page 13 of 28*

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Reviewed by Head of Laboratory Accreditation Section ..... (Mr.Surasak Muenphon)

The Laboratory of Division of Microbiology, King Chulalongkorn Memorial Hospital has been accepted as an accredited laboratory in the field of Medical Laboratory for the following scopes.

No.	Type of Sample	Test	Method
		(MI117)	(FEIA) : ImmunoCOLLEGE OF AMERICAN PATHOLOGISTS (CAP)
65.	Serum, Plasma	Specific IgE to Egg white (f1) (MI118)	Fluoroenzyme immunoassay (FEIA) : ImmunoCOLLEGE OF AMERICAN PATHOLOGISTS (CAP)
66.	Serum, Plasma	Specific IgE to Milk (f2) (MI119)	Fluoroenzyme immunoassay (FEIA) : ImmunoCOLLEGE OF AMERICAN PATHOLOGISTS (CAP)
67.	Serum, Plasma	Specific IgE to House dust mite (d1-Dp) (MI120)	Fluoroenzyme immunoassay (FEIA) : ImmunoCOLLEGE OF AMERICAN PATHOLOGISTS (CAP)
68.	Serum, Plasma	Specific IgE to House dust mite (d2-Df) (MI121)	Fluoroenzyme immunoassay (FEIA) : ImmunoCOLLEGE OF AMERICAN PATHOLOGISTS (CAP)
69.	Serum, Plasma	Specific IgE to Cat dander (e1) (MI122)	Fluoroenzyme immunoassay (FEIA) : ImmunoCOLLEGE OF AMERICAN PATHOLOGISTS



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No.	Type of Sample	Test	Method
			(CAP)
70.	Serum, Plasma	Specific IgE to Dog dander (e5) (MI123)	Fluoroenzyme immunoassay (FEIA) : ImmunoCOLLEGE OF AMERICAN PATHOLOGISTS (CAP)
71.	Serum, Plasma	Specific IgE to Cockroach (i206) (MI124)	Fluoroenzyme immunoassay (FEIA) : ImmunoCOLLEGE OF AMERICAN PATHOLOGISTS (CAP)
72.	Serum, Plasma	Specific IgE to Latex (k82) (MI125)	Fluoroenzyme immunoassay (FEIA) : ImmunoCOLLEGE OF AMERICAN PATHOLOGISTS (CAP)
73.	Serum, Plasma	Specific IgE to Mixed grass (gx2) (MI127)	Fluoroenzyme immunoassay (FEIA) : ImmunoCOLLEGE OF AMERICAN PATHOLOGISTS (CAP)
74.	Serum, Plasma	Specific IgE to Fire ant (i70) (MI150)	Fluoroenzyme immunoassay (FEIA) : ImmunoCOLLEGE OF AMERICAN PATHOLOGISTS (CAP)

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No.	Type of Sample	Test	Method
75.	Serum, Plasma	Specific IgE to Crab (f23) (MI152)	Fluoroenzyme immunoassay (FEIA) : ImmunoCOLLEGE OF AMERICAN PATHOLOGISTS (CAP)
76.	Serum, Plasma	Specific IgE to Squid (f258) (MI153)	Fluoroenzyme immunoassay (FEIA) : ImmunoCOLLEGE OF AMERICAN PATHOLOGISTS (CAP)
77.	Serum, Plasma	Specific IgE to Amoxilloyl (c6) (MI154)	Fluoroenzyme immunoassay (FEIA) : ImmunoCOLLEGE OF AMERICAN PATHOLOGISTS (CAP)
78.	Serum, Plasma	Specific IgE to Penicilloyl G (c1) (MI155)	Fluoroenzyme immunoassay (FEIA) : ImmunoCOLLEGE OF AMERICAN PATHOLOGISTS (CAP)
79.	Serum, Plasma	Specific IgE to egg white panel (f1, f232, f233) (MI179)	Fluoroenzyme immunoassay (FEIA) : ImmunoCOLLEGE OF AMERICAN PATHOLOGISTS (CAP)
80.	Serum, Plasma	Specific IgE to milk panel (f2, f77, f78) (MI180)	Fluoroenzyme immunoassay (FEIA) : ImmunoCOLLEGE OF



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No.	Type of Sample	Test	Method
			AMERICAN PATHOLOGISTS (CAP)
81.	Serum, Plasma	Specific IgE to wheat panel (f4, f416) (MI181)	Fluoroenzyme immunoassay (FEIA) : ImmunoCOLLEGE OF AMERICAN PATHOLOGISTS (CAP)
82.	Serum, Plasma	Specific IgE to egg yolk (f75) (MI187)	Fluoroenzyme immunoassay (FEIA) : ImmunoCOLLEGE OF AMERICAN PATHOLOGISTS (CAP)
83.	Serum, plasma	Specific IgE to Allergen Panel (MI210)	Immunoblot: Indirect/EURO Blot Master II
84.	Serum, Plasma	Tryptase (MI130)	Fluoroenzyme immunoassay (FEIA) : ImmunoCOLLEGE OF AMERICAN PATHOLOGISTS (CAP)
85.	EDTA Blood	Lymphocytic study CD4/CD8 (MI067)	Flow Cytometry
86.	EDTA Blood	Leukocyte markers (CD3, CD4, CD8, CD19, CD56) (MI068)	Flow Cytometry
87.	EDTA Blood	CD3, CD4 counts (MI088)	Flow Cytometry

*Bureau of Laboratory Quality Standards*

*Page 17 of 28*

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No.	Type of Sample	Test	Method
88.	EDTA blood	NK cell count (CD16+56) (MI111)	Flow Cytometry
89.	EDTA Blood	B cell count (CD19) (MI112)	Flow Cytometry
90.	Serum	Scrub typhus Ab-IgG (MI076)	Indirect Immunofluorescence Assay
91.	Serum	Scrub typhus Ab IgM (MI077)	Indirect Immunofluorescence Assay
92.	Serum	Murine typhus Ab-IgG (MI133)	Indirect Immunofluorescence Assay
93.	Serum	Murine typhus Ab-IgM (MI134)	Indirect Immunofluorescence Assay
94.	Serum	Anti HEV IgG (MI163)	Enzyme Linked Immunosorbent Assay
95.	Serum	Anti HEV IgM (MI164)	Enzyme Linked Immunosorbent Assay
96.	Serum, Plasma	M. pneumoniae IgG (MI100)	Enzyme Linked Immunosorbent Assay
97.	Serum, Plasma	M. pneumoniae IgM (MI101)	Enzyme Linked Immunosorbent Assay
98.	Serum, plasma	Anti Tetanus (MI199)	Enzyme Linked Immunosorbent



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No.	Type of Sample	Test	Method
			Assay
99.	Serum, plasma	Anti Diphtheria Toxoid IgG (MI216)	Enzyme Linked Immunosorbent Assay
100.	Serum, plasma	Anti Bordetella pertussis Toxin IgG (MI217)	Enzyme Linked Immunosorbent Assay
101.	Serum, plasma	Anti Bordetella FHA IgG (MI218)	Enzyme Linked Immunosorbent Assay
102.	EDTA Blood	HLA Class II DNA TYPING (MI080)	1.Polymerase Chain Reaction – Sequence Specific Primer (PCR-SSP) 2.Polymerase Chain Reaction – Sequence Specific Oligonucleotide probes (PCR-SSO)
103.	EDTA Blood	HLA Class I DNA TYPING (MI089)	1.Polymerase Chain Reaction – Sequence Specific Primer (PCR-SSP) 2.Polymerase Chain Reaction – Sequence Specific Oligonucleotide probes (PCR-SSO)

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No.	Type of Sample	Test	Method
104.	EDTA Blood	HLA-B27 (MI091)	1.Polymerase Chain Reaction – Sequence Specific Primer (PCR-SSP) 2.Polymerase Chain Reaction – Sequence Specific Oligonucleotide probes (PCR-SSO)
105.	EDTA Blood	HLA-A DNA TYPING (MI107)	1.Polymerase Chain Reaction – Sequence Specific Primer (PCR-SSP) 2.Polymerase Chain Reaction – Sequence Specific Oligonucleotide probes (PCR-SSO)
106.	EDTA Blood	HLA-B DNA TYPING (MI108)	1.Polymerase Chain Reaction – Sequence Specific Primer (PCR-SSP) 2.Polymerase Chain Reaction – Sequence Specific Oligonucleotide probes (PCR-SSO)



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No.	Type of Sample	Test	Method
107.	EDTA Blood	HLA-B*5701 (MI144)	1.Polymerase Chain Reaction – Sequence Specific Primer (PCR-SSP) 2.Polymerase Chain Reaction – Sequence Specific Oligonucleotide probes (PCR-SSO)
108.	EDTA Blood	HLA-B*5801 (MI145)	1.Polymerase Chain Reaction – Sequence Specific Primer (PCR-SSP) 2.Polymerase Chain Reaction – Sequence Specific Oligonucleotide probes (PCR-SSO)
109.	EDTA Blood	HLA-B*1502 (MI149)	1.Polymerase Chain Reaction – Sequence Specific Primer (PCR-SSP) 2.Polymerase Chain Reaction – Sequence Specific Oligonucleotide probes (PCR-SSO)

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No.	Type of Sample	Test	Method
110.	EDTA Blood	HLA-B51 (MI162)	1.Polymerase Chain Reaction – Sequence Specific Primer (PCR-SSP) 2.Polymerase Chain Reaction – Sequence Specific Oligonucleotide probes (PCR-SSO)
111.	Serum, Plasma	Treponemal Ab (MI160)	1. Electro Chemiluminescent Immunoassay (ECLIA): cobas 8000, Roche
112.	Serum, Plasma	Treponemal Ab (Urgent) (MI161)	1. Electro Chemiluminescent Immunoassay (ECLIA): cobas 8000, Roche
113.	Serum, Plasma, CSF	VDRL (RPR) (MI046)	Flocculation Reaction
114.	Serum, Plasma	TPHA (TP-PA) (MI047)	Hemagglutination (HA) Particle Agglutination (PA)
115.	CSF	FTA (CSF) (MI048)	Indirect Immunofluorescence Assay (IFA)
116.	Serum	FTA-ABS IgG (MI049)	Indirect Immunofluorescence Assay (IFA)
117.	Serum	FTA-ABS IgM (MI050)	Indirect Immunofluorescence



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No.	Type of Sample	Test	Method
			Assay (IFA)
118.	Serum, Plasma	Antinuclear Ab (MI018)	Indirect Immunofluorescence Assay (IFA)
119.	Serum, Plasma	Anti dsDNA (MI019)	Enzyme Linked Immunosorbent Assay
120.	Serum, Plasma	Anti RNP (MI021)	Enzyme Linked Immunosorbent Assay
121.	Serum, Plasma	Anti Sm (MI022)	Enzyme Linked Immunosorbent Assay
122.	Serum, Plasma	Anti SS-A (MI023)	Enzyme Linked Immunosorbent Assay
123.	Serum, Plasma	Anti SS-B (MI024)	Enzyme Linked Immunosorbent Assay
124.	Serum, Plasma	Anticardiolipin IgG (MI029)	Enzyme Linked Immunosorbent Assay
125.	Serum, Plasma	Anticardiolipin IgM (MI030)	Enzyme Linked Immunosorbent Assay
126.	Serum, Plasma	Antimitochondria Ab (MI032)	Indirect Immunofluorescence Assay (IFA)
127.	Serum, Plasma	Antismooth muscle Ab (MI033)	Indirect Immunofluorescence Assay (IFA)

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No.	Type of Sample	Test	Method
128.	Serum, Plasma	ANA profile 1 (MI132)	Immunoblot
129.	Serum, Plasma	Anti CCP (MI146)	Enzyme Linked Immunosorbent Assay
130.	Serum, Plasma	Anti $\beta$ 2 glycoprotein I-IgG (MI156)	Enzyme Linked Immunosorbent Assay
131.	Serum, Plasma	Anti $\beta$ 2 glycoprotein I-IgM (MI157)	Enzyme Linked Immunosorbent Assay
132.	Serum, Plasma	ANCA (IFA) (MI182)	Indirect Immunofluorescence Assay
133.	Serum, Plasma	Anti PLA2R (MI186)	Enzyme Linked Immunosorbent Assay
134.	Serum, Plasma	Anti dsDNA (IFA) (MI209)	Indirect Immunofluorescence Assay (IFA)
135.	Serum, Plasma	Myositis profile 4 (MI176)	Immunoblot
136.	Serum, Plasma	Antithyroglobulin (MI027)	Electrochemiluminescence Immunoassay (ECLIA)
137.	Serum, Plasma	Anti thyroid Peroxidase (MI028)	Electrochemiluminescence Immunoassay (ECLIA)
138.	Serum, Plasma	Thyroglobulin (MI202)	Electrochemiluminescence Immunoassay (ECLIA)
139.	Heparinized blood	QuantiFERON-TB Gold	Enzyme Linked Immunosorbent



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No.	Type of Sample	Test	Method
		(MI183)	Assay
140.	Serum, Plasma	Anticardiolipin IgA (MI031)	Enzyme Linked Immunosorbent Assay
141.	Serum, Plasma	Specific IgE to Bermuda grass (g2) (MI225)	Fluoroenzyme immunoassay (FEIA) : ImmunoCOLLEGE OF AMERICAN PATHOLOGISTS (CAP)
142.	Serum, Plasma	Specific IgE to Johnson grass (g10) (MI226)	Fluoroenzyme immunoassay (FEIA) : ImmunoCOLLEGE OF AMERICAN PATHOLOGISTS (CAP)
143.	Serum, Plasma	Specific IgE to peanut panel-1 (f13, f422, f423, f424) (MI228)	Fluoroenzyme immunoassay (FEIA) : ImmunoCOLLEGE OF AMERICAN PATHOLOGISTS (CAP)
144.	Serum, Plasma	Specific IgE to peanut panel-2 (f352, f427) (MI229)	Fluoroenzyme immunoassay (FEIA) : ImmunoCOLLEGE OF AMERICAN PATHOLOGISTS

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No.	Type of Sample	Test	Method
			(CAP)
<b>Laboratory of Virology</b>			
145.	Clotted Blood, Serum	CMV IgG (MV001)	Indirect ELISA
146.	Clotted Blood, Serum	CMV IgM (MV002)	Indirect ELISA
147.	Clotted Blood, Serum	HSV IgG (MV007)	Indirect ELISA
148.	Clotted Blood, Serum	HSV IgM (MV008)	Indirect ELISA
149.	Clotted Blood, Serum	Rubella IgG (MV010)	Indirect ELISA
150.	Clotted Blood, Serum	Rubella IgM (MV011)	Indirect ELISA
151.	Clotted Blood, Serum	Measles IgG (MV032)	Indirect ELISA
152.	Clotted Blood, Serum	Measles IgM (MV033)	Indirect ELISA
153.	Clotted Blood, Serum	Mumps IgG (MV070)	Indirect ELISA
154.	Clotted Blood, Serum	Mumps IgM (MV071)	Indirect ELISA
155.	Clotted Blood, Serum	VZV IgG (MV030)	Indirect ELISA
156.	Clotted Blood, Serum	VZV IgM (MV031)	Indirect ELISA
157.	Clotted Blood, Serum	EBV Ab IgG (MV005)	Indirect ELISA
158.	Clotted Blood, Serum	EBV (EBNA) IgG (MV051)	Indirect ELISA
159.	Clotted Blood, Serum	EBV Ab IgM (MV006)	Indirect ELISA
160.	Clotted Blood, Serum	Parvovirus B19 IgG (MV025)	Indirect ELISA
161.	Clotted Blood, Serum	Parvovirus B19 IgM (MV026)	Indirect ELISA



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No.	Type of Sample	Test	Method
162.	Clotted Blood, Serum	Dengue IgG (MV068)	College of American Pathologists (CAP)ture ELISA
163.	Clotted Blood, Serum	Dengue IgM (MV092)	College of American Pathologists (CAP)ture ELISA
164.	Plasma	HIV Viral Load (MV035)	Real time PCR
165.	Plasma	HBV Viral Load (MV037)	Real time PCR
166.	Plasma	HCV Viral Load (MV039)	Real time PCR
167.	Plasma	CMV Viral Load (MV041)	Real time PCR
168.	Plasma/Body Fluid	CMV-DNA (Qualitative) (MV042)	Real time PCR
169.	Plasma/CSF	EBV Viral Load (MV066)	Real time PCR
170.	Plasma/Body Fluid	VZV-DNA (Qualitative) (MV069)	Real time PCR
171.	Plasma/Body Fluid	HSV-DNA (Qualitative) (MV052)	Real time PCR
172.	Nasopharyngeal Swab/ Suction	Influenza A/B/RSV (MV081)	Multiplex real time PCR
173.	Nasopharyngeal Swab/ Suction	Respiratory Virus 19 Subtypes (MV082)	Multiplex polymerase chain reaction and bead hybridization:
174.	Plasma/Body fluid/ Urine	HSV 1-8 and Enterovirus (CLART ENTHERPEX)	Multiplex.polymerase Chain Reaction (PCR) and low density

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No.	Type of Sample	Test	Method
		(MV083)	DNA Microarray
175.	Nasopharyngeal and Throat swab, Nasal and Throat swab, Nasopharyngeal swab, Nasal swab, Throat swab, Sputum	SARS-CoV-2 (MV107)	Real time PCR