



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 : 2022
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

(Mr. Surasak Muenphon)

Director of Bureau of Laboratory Quality Standards

Date of Accreditation : 23 November 2023

Valid Until : 17 August 2025

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
Laboratory of Bacteriology			
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 Scrape, Pus Swab, Catheter Tip, Body Fluids and Isolated Colony	Aerobic culture with AST (MB001)	- Culture - Isolation - Identification (Biochemical Test: Conventional And Commercial Kit using VITEK®2 and VITEK® MS) - Serology Test - Disk Diffusion Test - E-Test
2.	CSF, Urine, Sputum, Urethral Swab, Vaginal Swab, Cervical Swab, Endotracheal Aspirate, Ear Swab, Eye Swab, Conjunctival Scrap, Corneal Scrape, Body Fluids And Pus Swab, Isolated colony	Gram Stain (MB015)	- Gram Stain - Microscopic Examination

Bureau of Laboratory Quality Standards

Page 1 of 24

Revision No. 00

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Valid Until : 17 August 2025

Reviewed by Head of Laboratory Accreditation Section (Ms.Saovane Aromsook)

Saovane Aromsook

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)	- Culture using BD BACTEC™ Blood Culture - Isolation - Identification (Biochemical Test: Conventional and Commercial Kit using VITEK®2 and VITEK® MS) - Serology Test - Disk Diffusion Test - E-Test
4.	Aerobic bacteria pure culture	Special identification for bacteria (MB022)	- Culture using BD BACTEC™ Blood Culture - Isolation - Identification (Biochemical Test: Conventional and Commercial Kit using VITEK®2 and VITEK® MS) - Serology Test - Disk Diffusion Test - E-Test

Bureau of Laboratory Quality Standards

Page 2 of 24

Revision No. 00

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Reviewed by Head of Laboratory Accreditation Section *Saovanee Aromsook* (Ms.Saovanee Aromsook)

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
5.	Serum	<i>C. pneumoniae</i> IgG Ab (MB 010)	Micro-Immuno Fluorescence Assay (MIF)
6.	Serum	<i>C. pneumoniae</i> IgM Ab (MB 011)	Micro-Immuno Fluorescence Assay (MIF)
Laboratory of Anaerobe			
7.	Stool	<i>Clostridioides difficile</i> toxin A&B (MB013)	Immunochromatography
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)	- Anaerobic culture - Isolation - Identification (conventional method and Commercial Kit using VITEK®2 and VITEK® MS) - E-Test
9.	Blood	Blood Culture: Anerobic Bacteria (MB060)	- Culture using BD BACTEC™ Blood Culture - Isolation - Identification (Biochemical Test: Conventional and

Bureau of Laboratory Quality Standards

Page 3 of 24

Revision No. 00

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Reviewed by Head of Laboratory Accreditation Section *Saovane Aromsook* (Ms.Saovane Aromsook)

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
			Commercial Kit using VITEK®2 and VITEK® MS) - E-Test
Laboratory of Mycobacteriology			
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, Isolated colony	Acid Fast Bacilli Stain (MB004)	- Culture - Isolation - Microscopic examination
11.	CSF, Urine, Sputum, Urethral Swab, Vaginal Swab, Cervical Swab, Endotrachial Aspirate, Ear Swab, Eye Swab, Nose Swab, Conjunctival Scrap, Cornea Scrap, Body Fluids,	<i>Mycobacterium</i> culture and AST (Automate : I,R,S,E) (MB002)	1. Culture (Solid C/S; LJ medium & Liquid C/S MGIT 960 system) 2. Isolation 3. Identification: - Line probe assay (HAIN; MTBC, CM, NTM-DR, AS kit) 4. AST for <i>Mycobacterium</i>

Bureau of Laboratory Quality Standards

Page 4 of 24

Revision No. 00

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No.	Type of Sample	Test	Method
	Pus Swab		<i>tuberculosis</i> using BACTEC MGIT 960 System
12.	Blood, body fluid in Myco/Flytic culture vial	<i>Mycobacterium</i> culture: Blood, body fluid (MB029)	1. Culture using BACTEC FX system 2. Isolation 3. Identification: - Line probe assay (HAIN; MTBC, CM, NTM-DR, AS kit) 4. AST for <i>Mycobacterium tuberculosis</i> using BACTEC MGIT 960 System
13.	Isolated organism (Positive for AFB Stain)	Identification of <i>Mycobacterium</i> species (Line probe assay) (MB068)	Line probe assay (HAIN; MTBC, CM, NTM-DR, AS kit)
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
Laboratory of Molecular Bacteriology			
16.	1. Respiratory secretion: sputum, bronchoalveolar lavage (BAL) ,	PCR for MTBC (MB020)	Real-time PCR Anyplex MTB/NTM Real-time Detection (V2.0)

Bureau of Laboratory Quality Standards

Page 5 of 24

Revision No. 00

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No.	Type of Sample	Test	Method
	endotracheal suction 2. Blood, bone marrow aspirate 3. Body fluid: pleural fluid, CSF, pericardial effusion 4. Pus 5. Tissue: fresh tissue, paraffin-embedded tissue 6. Urine 7. Feces		
Laboratory of Mycology			
17.	CSF	India Ink Preparation (MF005)	Direct Wet Mount
18.	Skin, Hair, Nail, Tissue biopsy, Pus, Lymph node, BAL, Sputum, Endotracheal Aspirate, Body Fluids, Smear Slide	KOH Preparation (MF006)	Direct Wet Mount
19.	CSF, Urine, Sputum, Throat swab, Urethral swab, Vaginal swab, Cervical	Fungus culture (MF003)	- Culture - Isolation - Identification

Bureau of Laboratory Quality Standards

Page 6 of 24

Revision No. 00

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No.	Type of Sample	Test	Method
	swab, Endotracheal Aspirate, Nasopharyngeal swab, Ear Swab, Eye Swab, Nose Swab, Conjunctiva, Corneal Scrap, Pus Swab, Catheter Tip, Body Fluids, Hair, Skin, Nail, Other		(Biochemical Test: Conventional And Commercial Kit using VITEK®2 and VITEK® MS)
20.	Clotted blood, CSF	Cryptococcus antigen (LA) (MF001)	Dipstick sandwich immunochromatography for detection of Cryptococcus antigen
21.	Blood, body fluid in Myco/F lytic culture vial	Hemofungus Culture (MF022)	- Culture (using BACTEC FX system) - Isolation - Identification (Biochemical Test: Conventional And Commercial Kit using VITEK®2 and VITEK® MS)
22.	Clotted blood, BAL	Aspergillus galactomannan antigen (MF026)	Immunoenzymatic Sandwich Microplate Assay

Bureau of Laboratory Quality Standards

Page 7 of 24

Revision No. 00

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No.	Type of Sample	Test	Method
Laboratory of Immunology			
23.	Serum, Plasma	CA19-9 (MI015)	1.Electrochemiluminescence Immunoassay (ECLIA): cobas e411
24.	Serum, Plasma, Amniotic Fluid	Alpha-fetoprotein (MI016, MI178)	1.Chemiluminescence microparticle immunoassay (CMIA) : Alinity i
25.	Serum, Plasma	Anti-HIV (MI034)	1. Chemiluminescence microparticle immunoassay (CMIA) : Alinity i
26.	Serum, Plasma	HIV Antigen (MI036)	1.Electro Chemiluminescent Immunoassay (ECLIA): cobas e411, Roche
27.	Serum, Plasma	HBe Antigen (MI037)	1.Chemiluminescence microparticle immunoassay (CMIA) : Alinity i
28.	Serum, Plasma	HBs Antigen (MI038)	1.Chemiluminescence microparticle immunoassay (CMIA) : Alinity i
29.	Serum, Plasma	HBc Antibody (MI039)	1.Chemiluminescence microparticle immunoassay (CMIA) : Alinity i
30.	Serum, Plasma	HBs Antibody (MI040)	1.Chemiluminescence microparticle immunoassay (CMIA) : Alinity i
31	Serum, Plasma	HBc IgM Antibody (MI042)	1.Chemiluminescence microparticle immunoassay (CMIA) : Alinity i

Bureau of Laboratory Quality Standards

Page 8 of 24

Revision No. 00

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No.	Type of Sample	Test	Method
32.	Serum, Plasma	HAV IgM Antibody (MI043)	1.Chemiluminescence microparticle immunoassay (CMIA) : Alinity i
33.	Serum, Plasma	Anti HAV (Total Ig) (MI044)	1.Chemiluminescence microparticle immunoassay (CMIA) : Alinity i
34.	Serum, Plasma	Anti HCV (MI045)	1.Chemiluminescence microparticle immunoassay (CMIA) : Alinity i
35.	Serum, Plasma	HBsAg quantitative (MI151)	1. Chemiluminescence microparticle immunoassay (CMIA) : Alinity i
36.	Serum, Plasma	Anti HIV (Urgent) (MI035)	1.Chemiluminescence microparticle immunoassay (CMIA) : Alinity i
37.	Serum, Plasma	HBsAg (Urgent) (MI104)	1. Chemiluminescence microparticle immunoassay (CMIA) : Alinity i
38.	Serum, Plasma	Anti HBs (Urgent) (MI105)	1. Chemiluminescence microparticle immunoassay (CMIA) : Alinity i
39.	Serum, Plasma	Anti HBc (Urgent) (MI106)	1. Chemiluminescence microparticle immunoassay (CMIA) : Alinity i
40.	Serum, Plasma	Anti HCV (Urgent) (MI109)	Chemiluminescence microparticle immunoassay (CMIA) : Alinity i
41.	Serum, Plasma	IgG (MI001)	Turbidimetry, Alinity C, Abbott
42.	Serum, Plasma	IgM (MI002,)	Turbidimetry, Alinity C, Abbott

Bureau of Laboratory Quality Standards

Page 9 of 24

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No.	Type of Sample	Test	Method
43.	Serum, Plasma	IgA (MI003)	Turbidimetry, Alinity C, Abbott
44.	Serum, Plasma	Total IgE (MI004)	Turbidimetry, Alinity C, Abbott
45.	Serum, Plasma	IgG1 (MI006)	Nephelometry, BN Prospecc, SIEMENS
46.	Serum, Plasma	IgG2 (MI007)	Nephelometry, BN Prospecc, SIEMENS
47.	Serum, Plasma	IgG3 (MI008)	Nephelometry, BN Prospecc, SIEMENS
48.	Serum, Plasma	IgG4 (MI009)	Nephelometry, BN Prospecc, SIEMENS
49.	Serum, Plasma	C3 (MI013)	Turbidimetry, Alinity C, Abbott
50.	Serum, Plasma	C4 (MI014)	Turbidimetry, Alinity C, Abbott
51.	Serum, Plasma	β 2-Microglobulin (MI017)	Turbidimetry, Alinity C, Abbott
52.	Serum, Plasma	Rheumatoid Factor (MI026)	Turbidimetry, Alinity C, Abbott
53.	Serum, Plasma	CRP (MI051)	Turbidimetry, Alinity C, Abbott
54.	Serum, Plasma	ASO (MI054)	Nephelometry, BN Prospecc, SIEMENS
55.	Serum, Plasma	Anti-DNase B (MI098)	Nephelometry, BN Prospecc, SIEMENS

Bureau of Laboratory Quality Standards

Page 10 of 24

Revision No. 00

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No.	Type of Sample	Test	Method
56.	Serum, Plasma	CRP (High sensitivity) (MI110)	Turbidimetry, Alinity C, Abbott
57.	Serum	Immunofixation (MI131)	Immunofixation Electrophoresis (IFE), Interlab G26, Sebia
58.	Serum	Free light (FLC) Kappa/Lambda (MI235)	Turbidimetry, Optilite, Binding site
59.	Serum	Serum Protein Electrophoresis (SPEP) (MI011)	Capillary Electrophoresis (CE), Capillarys2, Sebia
60.	Serum	Serum Immunotyping Electrophoresis (MI158)	Immunotyping Capillary Electrophoresis (IT), Capillarys2, Sebia
61.	Serum, Plasma	Specific IgE to Peanut (f13) (MI113)	Fluoroenzyme immunoassay (FEIA) : ImmunoCOLLEGE OF AMERICAN PATHOLOGISTS (CAP)
62.	Serum, Plasma	Specific IgE to Soya bean (f14) (MI114)	Fluoroenzyme immunoassay (FEIA) : ImmunoCOLLEGE OF AMERICAN PATHOLOGISTS (CAP)
63.	Serum, Plasma	Specific IgE to Wheat (f4) (MI115)	Fluoroenzyme immunoassay (FEIA) : ImmunoCOLLEGE OF AMERICAN PATHOLOGISTS (CAP)

Bureau of Laboratory Quality Standards

Page 11 of 24

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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
64.	Serum, Plasma	Specific IgE to Fish (f3) (MI116)	Fluoroenzyme immunoassay (FEIA) : ImmunoCOLLEGE OF AMERICAN PATHOLOGISTS (CAP)
65.	Serum, Plasma	Specific IgE to Shrimp (f24) (MI117)	Fluoroenzyme immunoassay (FEIA) : ImmunoCOLLEGE OF AMERICAN PATHOLOGISTS (CAP)
66.	Serum, Plasma	Specific IgE to Egg white (f1) (MI118)	Fluoroenzyme immunoassay (FEIA) : ImmunoCOLLEGE OF AMERICAN PATHOLOGISTS (CAP)
67.	Serum, Plasma	Specific IgE to Milk (f2) (MI119)	Fluoroenzyme immunoassay (FEIA) : ImmunoCOLLEGE OF AMERICAN PATHOLOGISTS (CAP)
68.	Serum, Plasma	Specific IgE to House dust mite (d1-Dp) (MI120)	Fluoroenzyme immunoassay (FEIA) : ImmunoCOLLEGE OF AMERICAN PATHOLOGISTS (CAP)
69.	Serum, Plasma	Specific IgE to House dust mite (d2-Df) (MI121)	Fluoroenzyme immunoassay (FEIA) : ImmunoCOLLEGE OF AMERICAN PATHOLOGISTS (CAP)
70.	Serum, Plasma	Specific IgE to Cat dander (e1) (MI122)	Fluoroenzyme immunoassay (FEIA) : ImmunoCOLLEGE OF AMERICAN PATHOLOGISTS (CAP)

Bureau of Laboratory Quality Standards

Page 12 of 24

Revision No. 00

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has been accepted as an accredited laboratory in the field of medical laboratory for the
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No.	Type of Sample	Test	Method
71.	Serum, Plasma	Specific IgE to Dog dander (e5) (MI123)	Fluoroenzyme immunoassay (FEIA) : ImmunoCOLLEGE OF AMERICAN PATHOLOGISTS (CAP)
72.	Serum, Plasma	Specific IgE to Cockroach (i206) (MI124)	Fluoroenzyme immunoassay (FEIA) : ImmunoCOLLEGE OF AMERICAN PATHOLOGISTS (CAP)
73.	Serum, Plasma	Specific IgE to Latex (k82) (MI125)	Fluoroenzyme immunoassay (FEIA) : ImmunoCOLLEGE OF AMERICAN PATHOLOGISTS (CAP)
74.	Serum, Plasma	Specific IgE to Mixed grass (gx2) (MI127)	Fluoroenzyme immunoassay (FEIA) : ImmunoCOLLEGE OF AMERICAN PATHOLOGISTS (CAP)
75.	Serum, Plasma	Specific IgE to Fire ant (i70) (MI150)	Fluoroenzyme immunoassay (FEIA) : ImmunoCOLLEGE OF AMERICAN PATHOLOGISTS (CAP)
76.	Serum, Plasma	Specific IgE to Crab (f23) (MI152)	Fluoroenzyme immunoassay (FEIA) : ImmunoCOLLEGE OF AMERICAN PATHOLOGISTS (CAP)
77.	Serum, Plasma	Specific IgE to Squid (f258) (MI153)	Fluoroenzyme immunoassay (FEIA) : ImmunoCOLLEGE OF AMERICAN PATHOLOGISTS (CAP)

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following scopes**

No.	Type of Sample	Test	Method
78.	Serum, Plasma	Specific IgE to Amoxilloyl (c6) (MI154)	Fluoroenzyme immunoassay (FEIA) : ImmunoCOLLEGE OF AMERICAN PATHOLOGISTS (CAP)
79.	Serum, Plasma	Specific IgE to Penicilloyl G (c1) (MI155)	Fluoroenzyme immunoassay (FEIA) : ImmunoCOLLEGE OF AMERICAN PATHOLOGISTS (CAP)
80.	Serum, Plasma	Specific IgE to egg white panel (f1, f232, f233) (MI179)	Fluoroenzyme immunoassay (FEIA) : ImmunoCOLLEGE OF AMERICAN PATHOLOGISTS (CAP)
81.	Serum, Plasma	Specific IgE to milk panel (f2, f77, f78) (MI180)	Fluoroenzyme immunoassay (FEIA) : ImmunoCOLLEGE OF AMERICAN PATHOLOGISTS (CAP)
82.	Serum, Plasma	Specific IgE to wheat panel (f4, f416) (MI181)	Fluoroenzyme immunoassay (FEIA) : ImmunoCOLLEGE OF AMERICAN PATHOLOGISTS (CAP)
83.	Serum, Plasma	Specific IgE to egg yolk (f75) (MI187)	Fluoroenzyme immunoassay (FEIA) : ImmunoCOLLEGE OF AMERICAN PATHOLOGISTS (CAP)
84.	Serum, plasma	Specific IgE to Allergen Panel (MI210)	Immunoblot: Indirect/EURO Blot Master II

Bureau of Laboratory Quality Standards

Page 14 of 24

Revision No. 00

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No.	Type of Sample	Test	Method
85.	Serum, Plasma	Tryptase (MI130)	Fluoroenzyme immunoassay (FEIA) : ImmunoCOLLEGE OF AMERICAN PATHOLOGISTS (CAP)
87.	EDTA Blood	CD8 count (MI234)	Flow Cytometry
88.	EDTA Blood	CD3, CD4 counts (MI088)	Flow Cytometry
89.	EDTA blood	NK cell count (CD16+56) (MI111)	Flow Cytometry
90.	EDTA Blood	B cell count (CD19) (MI112)	Flow Cytometry
91.	Serum	Scrub typhus Ab-IgG (MI076)	Indirect Immunofluorescence Assay
92.	Serum	Scrub typhus Ab IgM (MI077)	Indirect Immunofluorescence Assay
93.	Serum	Murine typhus Ab-IgG (MI133)	Indirect Immunofluorescence Assay
94.	Serum	Murine typhus Ab-IgM (MI134)	Indirect Immunofluorescence Assay
95.	Serum, Plasma	Anti HEV IgG (MI163)	Enzyme Linked Immunosorbent Assay
96.	Serum, Plasma	Anti HEV IgM (MI164)	Enzyme Linked Immunosorbent Assay

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No.	Type of Sample	Test	Method
97.	Serum, Plasma	M. pneumoniae IgG (MI100)	Enzyme Linked Immunosorbent Assay
98.	Serum, Plasma	M. pneumoniae IgM (MI101)	Enzyme Linked Immunosorbent Assay
99.	Serum, plasma	Anti Tetanus (MI199)	Enzyme Linked Immunosorbent Assay
100.	Serum, plasma	Anti Diphtheria Toxoid IgG (MI216)	Enzyme Linked Immunosorbent Assay
101.	Serum, plasma	Anti Bordetella pertussis Toxin IgG (MI217)	Enzyme Linked Immunosorbent Assay
102.	Serum, plasma	Anti Bordetella FHA IgG (MI218)	Enzyme Linked Immunosorbent Assay
103.	EDTA Blood	HLA Class II DNA TYPING (MI080)	1.Polymerase Chain Reaction – Sequence Specific Oligonucleotide probes (PCR-SSO)
104.	EDTA Blood	HLA Class I DNA TYPING (MI089)	1.Polymerase Chain Reaction – Sequence Specific Oligonucleotide probes (PCR-SSO)
105.	EDTA Blood	HLA-B27 (MI091)	1.Polymerase Chain Reaction – Sequence Specific Oligonucleotide probes (PCR-SSO)

Bureau of Laboratory Quality Standards

Page 16 of 24

Revision No. 00

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No.	Type of Sample	Test	Method
106.	EDTA Blood	HLA-A DNA TYPING (MI107)	1.Polymerase Chain Reaction – Sequence Specific Oligonucleotide probes (PCR-SSO)
107.	EDTA Blood	HLA-B DNA TYPING (MI108)	1.Polymerase Chain Reaction – Sequence Specific Oligonucleotide probes (PCR-SSO)
108.	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)
109.	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)
110.	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)

Bureau of Laboratory Quality Standards

Page 17 of 24

Revision No. 00

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No.	Type of Sample	Test	Method
111.	EDTA Blood	HLA-B51 (MI162)	1.Polymerase Chain Reaction – Sequence Specific Oligonucleotide probes (PCR-SSO)
112.	Serum, Plasma	Treponemal Ab (MI160)	1. Chemiluminescence microparticle immunoassay (CMIA) : Alinity i
113.	Serum, Plasma	Treponemal Ab (Urgent) (MI161)	1. Chemiluminescence microparticle immunoassay (CMIA) : Alinity i
114.	Serum, Plasma, CSF	VDRL (RPR) (MI046)	Flocculation Reaction
115.	Serum, Plasma	TPPA (MI047)	Particle Agglutination (PA)
116.	CSF	FTA (CSF) (MI048)	Indirect Immunofluorescence Assay (IFA)
117.	Serum	FTA-ABS IgG (MI049)	Indirect Immunofluorescence Assay (IFA)
118.	Serum	FTA-ABS IgM (MI050)	Indirect Immunofluorescence Assay (IFA)
119.	Serum, Plasma	Antinuclear Ab (MI018)	Indirect Immunofluorescence Assay (IFA)
120.	Serum, Plasma	Anti dsDNA (MI019)	Enzyme Linked Immunosorbent Assay
121.	Serum, Plasma	Anti RNP (MI021)	Enzyme Linked Immunosorbent Assay

Bureau of Laboratory Quality Standards

Page 18 of 24

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No.	Type of Sample	Test	Method
122.	Serum, Plasma	Anti Sm (MI022)	Enzyme Linked Immunosorbent Assay
123.	Serum, Plasma	Anti SS-A (MI023)	Enzyme Linked Immunosorbent Assay
124.	Serum, Plasma	Anti SS-B (MI024)	Enzyme Linked Immunosorbent Assay
125.	Serum, Plasma	Anticardiolipin IgG (MI029)	Enzyme Linked Immunosorbent Assay
126.	Serum, Plasma	Anticardiolipin IgM (MI030)	Enzyme Linked Immunosorbent Assay
127.	Serum, Plasma	Antimitochondria Ab (MI032)	Indirect Immunofluorescence Assay (IFA)
128.	Serum, Plasma	Antismooth muscle Ab (MI033)	Indirect Immunofluorescence Assay (IFA)
129.	Serum, Plasma	ANA profile 1 (MI132)	Immunoblot
130.	Serum, Plasma	Anti CCP (MI146)	Enzyme Linked Immunosorbent Assay
131.	Serum, Plasma	Anti β_2 glycoprotein I-IgG (MI156)	Enzyme Linked Immunosorbent Assay
132.	Serum, Plasma	Anti β_2 glycoprotein I-IgM (MI157)	Enzyme Linked Immunosorbent Assay

Bureau of Laboratory Quality Standards

Page 19 of 24

Revision No. 00

Date Revised 23 November 2023

Accreditation Number 4112/55

Date of Accreditation : 23 November 2023

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Reviewed by Head of Laboratory Accreditation Section (Ms.Saovane Aromsook)

Saovane Aromsook

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No.	Type of Sample	Test	Method
133.	Serum, Plasma	ANCA (IFA) (MI230)	Indirect Immunofluorescence Assay
134.	Serum, Plasma	Anti PLA2R (MI186)	Enzyme Linked Immunosorbent Assay
135.	Serum, Plasma	Anti dsDNA (IFA) (MI209)	Indirect Immunofluorescence Assay (IFA)
136.	Serum, Plasma	Myositis profile 4 (MI176)	Immunoblot
137.	Serum, Plasma	Antithyroglobulin (MI027)	Electrochemiluminescence Immunoassay (ECLIA)
138.	Serum, Plasma	Anti thyroid Peroxidase (MI028)	Chemiluminescence microparticle immunoassay (CMIA) : Alinity i
139.	Serum, Plasma	Thyroglobulin (MI202)	Chemiluminescence microparticle immunoassay (CMIA) : Alinity i
140.	Heparinized blood	QuantiFERON-TB Gold (MI183)	Enzyme Linked Immunosorbent Assay
141.	Serum, Plasma	Anticardiolipin IgA (MI031)	Enzyme Linked Immunosorbent Assay
142.	Serum, Plasma	AntiMPO (MI231)	Enzyme Linked Immunosorbent Assay
143.	Serum, Plasma	AntiPR3 (MI232)	Enzyme Linked Immunosorbent Assay

Bureau of Laboratory Quality Standards

Page 20 of 24

Revision No. 00

Date Revised 23 November 2023

Accreditation Number 4112/55

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No.	Type of Sample	Test	Method
144.	Serum, Plasma	AntiGBM (MI233)	Enzyme Linked Immunosorbent Assay
145.	Serum, Plasma	Specific IgE to Bermuda grass (g2) (MI225)	Fluoroenzyme immunoassay (FEIA) : ImmunoCOLLEGE OF AMERICAN PATHOLOGISTS (CAP)
146.	Serum, Plasma	Specific IgE to Johnson grass (g10) (MI226)	Fluoroenzyme immunoassay (FEIA) : ImmunoCOLLEGE OF AMERICAN PATHOLOGISTS (CAP)
147.	Serum, Plasma	Specific IgE to peanut panel-1 (f13, f422, f423, f424) (MI228)	Fluoroenzyme immunoassay (FEIA) : ImmunoCOLLEGE OF AMERICAN PATHOLOGISTS (CAP)
148.	Serum, Plasma	Specific IgE to peanut panel-2 (f352, f427) (MI229)	Fluoroenzyme immunoassay (FEIA) : ImmunoCOLLEGE OF AMERICAN PATHOLOGISTS (CAP)
Laboratory of Virology			
149.	Clotted Blood, Serum	CMV IgG (MV001)	Indirect ELISA
150.	Clotted Blood, Serum	CMV IgM (MV002)	Indirect ELISA

Bureau of Laboratory Quality Standards

Page 21 of 24

Revision No. 00

Date Revised 23 November 2023

Accreditation Number 4112/55

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No.	Type of Sample	Test	Method
151.	Clotted Blood, Serum	HSV IgG (MV007)	Indirect ELISA
152.	Clotted Blood, Serum	HSV IgM (MV008)	Indirect ELISA
153.	Clotted Blood, Serum	Rubella IgG (MV010)	Indirect ELISA
154.	Clotted Blood, Serum	Rubella IgM (MV011)	Indirect ELISA
155.	Clotted Blood, Serum	Measles IgG (MV032)	Indirect ELISA
156.	Clotted Blood, Serum	Measles IgM (MV033)	Indirect ELISA
157.	Clotted Blood, Serum	Mumps IgG (MV070)	Indirect ELISA
158.	Clotted Blood, Serum	Mumps IgM (MV071)	Indirect ELISA
159.	Clotted Blood, Serum	VZV IgG (MV030)	Indirect ELISA
160.	Clotted Blood, Serum	VZV IgM (MV031)	Indirect ELISA
161.	Clotted Blood, Serum	EBV Ab IgG (MV005)	Indirect ELISA
162.	Clotted Blood, Serum	EBV (EBNA) IgG (MV051)	Indirect ELISA
163.	Clotted Blood, Serum	EBV Ab IgM (MV006)	Indirect ELISA
164.	Clotted Blood, Serum	Parvovirus B19 IgG (MV025)	Indirect ELISA
165.	Clotted Blood, Serum	Parvovirus B19 IgM (MV026)	Indirect ELISA
166.	Clotted Blood, Serum	Dengue IgG (MV068)	College of American Pathologists (CAP)ture ELISA
167.	Clotted Blood, Serum	Dengue IgM (MV092)	College of American Pathologists (CAP)ture ELISA

Bureau of Laboratory Quality Standards

Page 22 of 24

Revision No. 00

Accreditation Number 4112/55

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No.	Type of Sample	Test	Method
168.	Plasma	HIV Viral Load (MV035)	Real time PCR
169.	Plasma	HBV Viral Load (MV037)	Real time PCR
170.	Plasma	HCV Viral Load (MV039)	Real time PCR
171.	Plasma	CMV Viral Load (MV041)	Real time PCR
172.	Plasma/Body Fluid	CMV-DNA (Qualitative) (MV042)	Real time PCR
173.	Plasma	EBV Viral Load (MV066)	Real time PCR
174.	Plasma/Body Fluid	VZV-DNA (Qualitative) (MV069)	Real time PCR
175.	Plasma/Body Fluid	HSV-DNA (Qualitative) (MV052)	Real time PCR
176.	Plasma/Body fluid/CSF	Human Herpesvirus,Enterovirus, Adenovirus,Parechovirus and Parvo B19 (HHV-8 excluded) (MV083)	Real time PCR
177.	Nasopharyngeal and Throat swab, Nasal and Throat swab, Nasopharyngeal swab, Nasal swab, Throat swab, Sputum	SARS-CoV-2 (MV107)	Real time PCR

Bureau of Laboratory Quality Standards

Page 23 of 24

Revision No. 00

Date Revised 23 November 2023

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No.	Type of Sample	Test	Method
178.	Plasma, Urine	BKV viral load (MV084)	Real time PCR

Bureau of Laboratory Quality Standards

Page 24 of 24

Revision No. 00

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