Schedule

Issue date: 01 December 2025
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NO: SAMM 680

LABORATORY LOCATION: (PERMANENT LABORATORY)	Disease Division, Makmal Kesihatan Awam Kebangsaan Sungai Buloh Lot 1853, Kampung Melayu Sungai Buloh, 47000 Sungai Buloh, Selangor. , 47000, SELANGOR MALAYSIA
ACCREDITED SINCE :	04 FEBRUARY 2025
FIELD(S) OF MEDICAL TESTING :	CHEMICAL PATHOLOGY MEDICAL MICROBIOLOGY (BACTERIOLOGY) MEDICAL MICROBIOLOGY (NATIONAL TUBERCULOSIS REFERENCE LABORATORY) MEDICAL MICROBIOLOGY (LEPROSY) MEDICAL MICROBIOLOGY (PARASITOLOGY) MEDICAL MICROBIOLOGY (VIROLOGY)

The standard used for assessment of this laboratory is MS ISO 15189:2022 (ISO 15189:2022, IDT).

A medical laboratory's fulfilment of the requirements of ISO 15189 means the laboratory meets both the technical competence requirements and the management system requirements necessary for it to consistently deliver technically valid test results. The management system requirements in ISO 15189 are written in language relevant to a medical laboratory's operations. Medical laboratories that implement ISO 15189 operate generally in accordance with the principles of ISO 9001. (See Joint IAF-ILAC-ISO Communiquè, November 2021)

CENTRAL LOCATION	Disease Division, Makmal Kesihatan Awam Kebangsaan Sungai Buloh Lot 1853, Kampung Melayu Sungai Buloh, 47000 Sungai Buloh, Selangor. , 47000, Selangor
FIELD(S) OF MEDICAL TESTING :	CHEMICAL PATHOLOGY, MEDICAL MICROBIOLOGY (BACTERIOLOGY)MEDICAL MICROBIOLOGY (NATIONAL TUBERCULOSIS REFERENCE LABORATORY)MEDICAL MICROBIOLOGY (LEPROSY)MEDICAL MICROBIOLOGY (PARASITOLOGY)MEDICAL MICROBIOLOGY (VIROLOGY)

SCOPE OF MEDICAL TESTING : CHEMICAL PATHOLOGY

Specimen Tested	**Type of Test/ Properties Measured/**	**Test Methods,Specifications/ Equipment/Techniques Used**
Serum	Glucose	Enzymatic UV Test (Hexokinase Method) by Beckman Coulter AU480 Chemistry Analyser as documented in Clinical Chemistry Test Using Chemistry Analyser (MKAK/BP/BKM/WI-02).
	Calcium	Arsenazo by Beckman Coulter AU480 Chemistry Analyser as documented in Clinical Chemistry Test Using Chemistry Analyser (MKAK/BP/BKM/WI-02).
	Inorganic phosphorus	Phosphomolybdate UV by Beckman Coulter AU480 Chemistry Analyser as documented in Clinical Chemistry Test Using Chemistry Analyser (MKAK/BP/BKM/WI-02).
	Cholinesterase	Butyrylthiocholine to butyrate by Beckman Coulter AU480 Chemistry Analyser as documented in Clinical Chemistry Test Using Chemistry Analyser (MKAK/BP/BKM/WI-02).
Lipid Profile Serum	Cholesterol	Cholesterol Oxidase by Beckman Coulter AU480 Chemistry Analyser as documented in Clinical Chemistry Test Using Chemistry Analyser (MKAK/BP/BKM/WI-02).

	HDL_Cholesterol	Immuno Inhibition using Cholesterol Esterase and Cholesterol Oxidase Method By Beckman Coulter AU480 Chemistry Analyser (MKAK/BP/BKM/WI-02).
	LDL_Cholesterol	Calculated/Derived Parameter as documented in Clinical Chemistry Test Using Chemistry Analyser (MKAK/BP/BKM/WI-02).
	Triglyceride	Lipase/GPO-PAP Colorimetric without Glycerol Correction by Beckman Coulter AU480 Chemistry Analyser as documented in Clinical Chemistry Test Using Chemistry Analyser MKAK/BP/BKM/WI02).
Liver Function Serum	Alkaline Phosphatase	P-nitro-phenylphosphate (pNPP) to p nitrophenol, IFCC by Beckman Coulter AU480 Chemistry Analyser as documented in Clinical Chemistry Test Using Chemistry Analyser (MKAK/BP/BKM/WI-02).
	Alanine Transaminase	IFCC Without Pyridoxal Phosphate by Beckman Coulter AU480 Chemistry Analyser as documented in Clinical Chemistry Test Using Chemistry Analyser (MKAK/BP/BKM/WI-02).
	Aspartate Transaminase	IFCC Without Pyridoxal Phosphate by Beckman Coulter AU480 Chemistry Analyser as Documented in Clinical Chemistry Test Using Chemistry Analyser (MKAK/BP/BKM/WI-02).
	Total Bilirubin	Dichlorophenyl Diazonium by Beckman Coulter AU480 Chemistry Analyser as Documented in MKAK/BP/BKM/WI-02.
Liver Function Test Serum	Total Protein	Biuret Reaction, End Point by Beckman Coulter AU480 Chemistry Analyser as Documented in MKAK/BP/BKM/WI-02.

	Albumin	Bromocresol Green (BCG) by Beckman Coulter AU480 Chemistry Analyser as documented in Clinical Chemistry Test Using Chemistry Analyser (MKAK/BP/BKM/WI-02).
	Globulin	Calculated/Derived Parameters as documented in Clinical Chemistry Test Using Chemistry Analyser (MKAK/BP/BKM/WI-02).
Renal Profile Serum	Urea	Urease Kinetic by Beckman Coulter AU480 Chemistry Analyser as documented in Clinical Chemistry Test Using Chemistry Analyser (MKAK/BP/BKM/WI-02).
	Creatinine	Alkaline Picrate Without Deproteinisation by Beckman Coulter AU480 Chemistry Analyser as documented in Clinical Chemistry Test Using Chemistry Analyser (MKAK/BP/BKM/WI-02).
	Uric Acid	Uricase / PAP Method (Uricase Peroxidase With Ascorbate Oxidase) by Beckman Coulter AU480 Chemistry Analyser as documented in Clinical Chemistry Test Using Chemistry Analyser (MKAK/BP/BKM/WI-02).
	Sodium	Indirect ISE Method by Beckman Coulter AU480 Chemistry Analyser as documented in Clinical Chemistry Test Using Chemistry Analyser (MKAK/BP/BKM/WI-02).
	Potassium	Indirect ISE Method by Beckman Coulter AU480 Chemistry Analyser as documented in Clinical Chemistry Test Using Chemistry Analyser (MKAK/BP/BKM/WI-02).
	Chloride	Indirect ISE Method by Beckman Coulter AU480 Chemistry Analyser as documented in Clinical Chemistry Test Using Chemistry Analyser (MKAK/BP/BKM/WI-02).

SCOPE OF MEDICAL TESTING : MEDICAL MICROBIOLOGY (BACTERIOLOGY)

Specimen Tested	**Type of Test/ Properties Measured/**	**Test Methods,Specifications/ Equipment/Techniques Used**
Stool & Rectal Swab	*Salmonella* Typhi and *Salmonella sp*	Culture ans Sensitivity for *Salmonella* Typhi and *Salmonella sp* as documented In MKAK/BAK/WI-04 and Antibiotic Susceptibility Testing as documented in MKAK/BAK/WI-03.
	Vibrio cholerae	Culture and Sensitivity for *Vibrio cholerae* as documented in MKAK/BAK/WI-05 and Antibiotic Susceptibility Testing as documented in MKAK/BAK/WI-03.
	Enteric Pathogens	Culture and Sensitivity for Enteric Pathogens as documented in MKAK/BAK/WI-10 and Antibiotic Susceptibility Testing as Documented in MKAK/BAK/WI-03.
Isolate	*Vibrio cholerae*	Serotyping and Biotyping for *Vibrio cholerae* as documented in MKAK/BAK/WI-05.
	Corynebacterium diphtheriae	Culture and Sensitivity for *Corynebacterium diphtheria* as documented in MKAK/BAK/WI-47 and Antibiotic Susceptibility Testing as documented in MKAK/BAK/WI-03.
	Corynebacterium diphtheriae	Toxin Detection by PCR for *Corynebacterium diphtheriae* as documented in MKAK/BAK/WI-47.
	Corynebacterium diphtheriae	Modified Elek's gel diffusion method for *Corynebacterium diphtheriae* as Documented in MKAK/BAK/WI-47
	Haemophilus influenzae	Serotyping for *Haemophilus influenzae* as documented in MKAK/BAK/WI-60
	Neisseria meningitidis	Serotyping for *Neisseria meningitidis* as documented in MKAK/BAK/WI-61

	Acinetobacter baumannii *Burkholderia cepacia* *Campylobacter jejuni* *Corynebacterium diphtheriae* *E.coli O157:H7* *Klebsiella pneumoniae* *Neisseria meningitidis* *Pseudomonas aeruginosa* *Salmonella sp.* *Serratia marcescens* *Shigella sonnei* *Shigella flexneri* *Stapylococcus aureus* *Vibrio cholerae*	Pulsed-Field Gel Electrophoresis as documented in MKAK/BAK/WI-59
	Salmonella sp	Serotyping for *Salmonella sp* as documented in MKAK/BAK/WI-28.
Throat Swab, Nasopharyngeal Aspirate, Nasopharyngeal Swab, Nasal Swab, Sputum	Respiratory pathogens	Culture and Sensitivity for Respiratory pathogens as documented in MKAK/BAK/WI-31 and Antibiotic Susceptibility Testing as documented in MKAK/BAK/WI-03.
Serology Serum	*Leptospira interrogans*	*Leptospira* serovars identification by Microscopic Agglutination Test as documented in MKAK/BAK/WI-55
	Leptospira IgM	Detection of *Leptospira* using the SERION ELISA Classic Leptospira IgM as documented in MKAK/BAK/WI-49.
	Coxiella burnetti IgM	*Coxiella burnetti* IgM ELISA Test as documented in MKAK/BAK/WI-32.
	Coxiella burnetti IgG	*Coxiella burnetti* IgG ELISA Test as documented in MKAK/BAK/WI-33.
	Treponema pallidum	Screening Method for *Treponema pallidum* by Rapid Plasma Reaging (RPR) as documented in MKAK/BAK/WI-50.
	Treponema pallidum	Confirmatory Method by *Treponema pallidum* Passive Particle Agglutination (TPPA) as documented in MKAK/BAK/WI-51.

Cerebrospinal Fluid (csf), Tracheal Aspirate, Bronchoalveloar Larvage (bal), Pleural Fluid, Plasma In Edta	*Neisseria meningitidis* *Haemophilus influenzae* *Streptococcus pneumoniae*	Detection of *Neisseria meningitidis, Haemophilus influenzae* and *Streptococcus pneumoniae* by real-time polymerase chain reaction (qPCR) as documented in MKAK/BAK/WI-38
Urine	*Candida sp* *Corynebacterium urealyticum* *Enterococcus sp* *Enterobacterales* *Pseudomonas sp.* *Salmonella sp.* *Staphylococcus aureus (MRSA)* *Staphylococcus epidermidis* *Staphylococcus saprophyticus* *Streptococcus agalactiae*	Culture for Urine Pathogens-as documented in MKAK/BAK/WI03 and Antibiotic Susceptibility Testing as documented in MKAK/BAK/WI-03
Sputum, Pus, Nasal Swab (carrier Screening), Isolate, Blood, Sterile Body Fluid	Methicillin Resistance Staphylococcus aureus (MRSA)	Detection of Methicillin Resistant *Staphylococcus aureus* (MRSA) as documented in MKAK/BAK/WI-48 and Antibiotic Susceptibility Testing as documented in MKAK/BAK/WI-03.
Nasopharyngeal Aspirate, Nasopharyngeal Swab	*Bordetella pertussis*	Detection of *Bordetella pertussis* by Real Time Polymerase Chain Reaction (PCR) as documented in MKAK/BAK/WI-23.

SCOPE OF MEDICAL TESTING : MEDICAL MICROBIOLOGY (NATIONAL TUBERCULOSIS REFERENCE LABORATORY)

Specimen Tested	**Type of Test/ Properties Measured/**	**Test Methods,Specifications/ Equipment/Techniques Used**
Stool & Rectal Swab	*Salmonella* Typhi and *Salmonella sp*	Culture ans Sensitivity for *Salmonella* Typhi and *Salmonella sp* as documented In MKAK/BAK/WI-04 and Antibiotic Susceptibility Testing as documented in MKAK/BAK/WI-03.

	Vibrio cholerae	Culture and Sensitivity for *Vibrio cholerae* as documented in MKAK/BAK/WI-05 and Antibiotic Susceptibility Testing as documented in MKAK/BAK/WI-03.
	Enteric Pathogens	Culture and Sensitivity for Enteric Pathogens as documented in MKAK/BAK/WI-10 and Antibiotic Susceptibility Testing as Documented in MKAK/BAK/WI-03.
Isolate	*Vibrio cholerae*	Serotyping and Biotyping for *Vibrio cholerae* as documented in MKAK/BAK/WI-05.
	Corynebacterium diphtheriae	Culture and Sensitivity for *Corynebacterium diphtheria* as documented in MKAK/BAK/WI-47 and Antibiotic Susceptibility Testing as documented in MKAK/BAK/WI-03.
	Corynebacterium diphtheriae	Toxin Detection by PCR for *Corynebacterium diphtheriae* as documented in MKAK/BAK/WI-47.
	Corynebacterium diphtheriae	Modified Elek's gel diffusion method for *Corynebacterium diphtheriae* as Documented in MKAK/BAK/WI-47
	Haemophilus influenzae	Serotyping for *Haemophilus influenzae* as documented in MKAK/BAK/WI-60
	Neisseria meningitidis	Serotyping for *Neisseria meningitidis* as documented in MKAK/BAK/WI-61

	Acinetobacter baumannii *Burkholderia cepacia* *Campylobacter jejuni* *Corynebacterium diphtheriae* *E.coli O157:H7* *Klebsiella pneumoniae* *Neisseria meningitidis* *Pseudomonas aeruginosa* *Salmonella sp.* *Serratia marcescens* *Shigella sonnei* *Shigella flexneri* *Stapylococcus aureus* *Vibrio cholerae*	Pulsed-Field Gel Electrophoresis as documented in MKAK/BAK/WI-59
	Salmonella sp	Serotyping for *Salmonella sp* as documented in MKAK/BAK/WI-28.
Throat Swab, Nasopharyngeal Aspirate, Nasopharyngeal Swab, Nasal Swab, Sputum	Respiratory pathogens	Culture and Sensitivity for Respiratory pathogens as documented in MKAK/BAK/WI-31 and Antibiotic Susceptibility Testing as documented in MKAK/BAK/WI-03.
Serology Serum	*Leptospira interrogans*	*Leptospira* serovars identification by Microscopic Agglutination Test as documented in MKAK/BAK/WI-55
	Leptospira IgM	Detection of *Leptospira* using the SERION ELISA Classic Leptospira IgM as documented in MKAK/BAK/WI-49.
	Coxiella burnetti IgM	*Coxiella burnetti* IgM ELISA Test as documented in MKAK/BAK/WI-32.
	Coxiella burnetti IgG	*Coxiella burnetti* IgG ELISA Test as documented in MKAK/BAK/WI-33.
	Treponema pallidum	Screening Method for *Treponema pallidum* by Rapid Plasma Reaging (RPR) as documented in MKAK/BAK/WI-50.
	Treponema pallidum	Confirmatory Method by *Treponema pallidum* Passive Particle Agglutination (TPPA) as documented in MKAK/BAK/WI-51.

Cerebrospinal Fluid (csf), Tracheal Aspirate, Bronchoalveloar Larvage (bal), Pleural Fluid, Plasma In Edta	*Neisseria meningitidis* *Haemophilus influenzae* *Streptococcus pneumoniae*	Detection of *Neisseria meningitidis, Haemophilus influenzae* and *Streptococcus pneumoniae* by real-time polymerase chain reaction (qPCR) as documented in MKAK/BAK/WI-38
Urine	*Candida sp* *Corynebacterium urealyticum* *Enterococcus sp* *Enterobacterales* *Pseudomonas sp.* *Salmonella sp.* *Staphylococcus aureus (MRSA)* *Staphylococcus epidermidis* *Staphylococcus saprophyticus* *Streptococcus agalactiae*	Culture for Urine Pathogens-as documented in MKAK/BAK/WI03 and Antibiotic Susceptibility Testing as documented in MKAK/BAK/WI-03
Sputum, Pus, Nasal Swab (carrier Screening), Isolate, Blood, Sterile Body Fluid	Methicillin Resistance Staphylococcus aureus (MRSA)	Detection of Methicillin Resistant *Staphylococcus aureus* (MRSA) as documented in MKAK/BAK/WI-48 and Antibiotic Susceptibility Testing as documented in MKAK/BAK/WI-03.
Nasopharyngeal Aspirate, Nasopharyngeal Swab	*Bordetella pertussis*	Detection of *Bordetella pertussis* by Real Time Polymerase Chain Reaction (PCR) as documented in MKAK/BAK/WI-23.

SCOPE OF MEDICAL TESTING : MEDICAL MICROBIOLOGY (LEPROSY)

Specimen Tested	**Type of Test/ Properties Measured/**	**Test Methods,Specifications/ Equipment/Techniques Used**
Stool & Rectal Swab	*Salmonella* Typhi and *Salmonella sp*	Culture ans Sensitivity for *Salmonella* Typhi and *Salmonella sp* as documented In MKAK/BAK/WI-04 and Antibiotic Susceptibility Testing as documented in MKAK/BAK/WI-03.

	Vibrio cholerae	Culture and Sensitivity for *Vibrio cholerae* as documented in MKAK/BAK/WI-05 and Antibiotic Susceptibility Testing as documented in MKAK/BAK/WI-03.
	Enteric Pathogens	Culture and Sensitivity for Enteric Pathogens as documented in MKAK/BAK/WI-10 and Antibiotic Susceptibility Testing as Documented in MKAK/BAK/WI-03.
Isolate	*Vibrio cholerae*	Serotyping and Biotyping for *Vibrio cholerae* as documented in MKAK/BAK/WI-05.
	Corynebacterium diphtheriae	Culture and Sensitivity for *Corynebacterium diphtheria* as documented in MKAK/BAK/WI-47 and Antibiotic Susceptibility Testing as documented in MKAK/BAK/WI-03.
	Corynebacterium diphtheriae	Toxin Detection by PCR for *Corynebacterium diphtheriae* as documented in MKAK/BAK/WI-47.
	Corynebacterium diphtheriae	Modified Elek's gel diffusion method for *Corynebacterium diphtheriae* as Documented in MKAK/BAK/WI-47
	Haemophilus influenzae	Serotyping for *Haemophilus influenzae* as documented in MKAK/BAK/WI-60
	Neisseria meningitidis	Serotyping for *Neisseria meningitidis* as documented in MKAK/BAK/WI-61

	Acinetobacter baumannii *Burkholderia cepacia* *Campylobacter jejuni* *Corynebacterium diphtheriae* *E.coli O157:H7* *Klebsiella pneumoniae* *Neisseria meningitidis* *Pseudomonas aeruginosa* *Salmonella sp.* *Serratia marcescens* *Shigella sonnei* *Shigella flexneri* *Stapylococcus aureus* *Vibrio cholerae*	Pulsed-Field Gel Electrophoresis as documented in MKAK/BAK/WI-59
	Salmonella sp	Serotyping for *Salmonella sp* as documented in MKAK/BAK/WI-28.
Throat Swab, Nasopharyngeal Aspirate, Nasopharyngeal Swab, Nasal Swab, Sputum	Respiratory pathogens	Culture and Sensitivity for Respiratory pathogens as documented in MKAK/BAK/WI-31 and Antibiotic Susceptibility Testing as documented in MKAK/BAK/WI-03.
Serology Serum	*Leptospira interrogans*	*Leptospira* serovars identification by Microscopic Agglutination Test as documented in MKAK/BAK/WI-55
	Leptospira IgM	Detection of *Leptospira* using the SERION ELISA Classic Leptospira IgM as documented in MKAK/BAK/WI-49.
	Coxiella burnetti IgM	*Coxiella burnetti* IgM ELISA Test as documented in MKAK/BAK/WI-32.
	Coxiella burnetti IgG	*Coxiella burnetti* IgG ELISA Test as documented in MKAK/BAK/WI-33.
	Treponema pallidum	Screening Method for *Treponema pallidum* by Rapid Plasma Reaging (RPR) as documented in MKAK/BAK/WI-50.
	Treponema pallidum	Confirmatory Method by *Treponema pallidum* Passive Particle Agglutination (TPPA) as documented in MKAK/BAK/WI-51.

Cerebrospinal Fluid (csf), Tracheal Aspirate, Bronchoalveloar Larvage (bal), Pleural Fluid, Plasma In Edta	*Neisseria meningitidis* *Haemophilus influenzae* *Streptococcus pneumoniae*	Detection of *Neisseria meningitidis, Haemophilus influenzae* and *Streptococcus pneumoniae* by real-time polymerase chain reaction (qPCR) as documented in MKAK/BAK/WI-38
Urine	*Candida sp* *Corynebacterium urealyticum* *Enterococcus sp* *Enterobacterales* *Pseudomonas sp.* *Salmonella sp.* *Staphylococcus aureus (MRSA)* *Staphylococcus epidermidis* *Staphylococcus saprophyticus* *Streptococcus agalactiae*	Culture for Urine Pathogens as documented in MKAK/BAK/WI03 and Antibiotic Susceptibility Testing as documented in MKAK/BAK/WI-03
Sputum, Pus, Nasal Swab (carrier Screening), Isolate, Blood, Sterile Body Fluid	Methicillin Resistance Staphylococcus aureus (MRSA)	Detection of Methicillin Resistant *Staphylococcus aureus* (MRSA) as documented in MKAK/BAK/WI-48 and Antibiotic Susceptibility Testing as documented in MKAK/BAK/WI-03.
Nasopharyngeal Aspirate, Nasopharyngeal Swab	*Bordetella pertussis*	Detection of *Bordetella pertussis* by Real Time Polymerase Chain Reaction (PCR) as documented in MKAK/BAK/WI-23.

SCOPE OF MEDICAL TESTING : MEDICAL MICROBIOLOGY (PARASITOLOGY)

Specimen Tested	**Type of Test/ Properties Measured/**	**Test Methods,Specifications/ Equipment/Techniques Used**
Stool & Rectal Swab	*Salmonella* Typhi and *Salmonella sp*	Culture ans Sensitivity for *Salmonella* Typhi and *Salmonella sp* as documented In MKAK/BAK/WI-04 and Antibiotic Susceptibility Testing as documented in MKAK/BAK/WI-03.

	Vibrio cholerae	Culture and Sensitivity for *Vibrio cholerae* as documented in MKAK/BAK/WI-05 and Antibiotic Susceptibility Testing as documented in MKAK/BAK/WI-03.
	Enteric Pathogens	Culture and Sensitivity for Enteric Pathogens as documented in MKAK/BAK/WI-10 and Antibiotic Susceptibility Testing as Documented in MKAK/BAK/WI-03.
Isolate	*Vibrio cholerae*	Serotyping and Biotyping for *Vibrio cholerae* as documented in MKAK/BAK/WI-05.
	Corynebacterium diphtheriae	Culture and Sensitivity for *Corynebacterium diphtheria* as documented in MKAK/BAK/WI-47 and Antibiotic Susceptibility Testing as documented in MKAK/BAK/WI-03.
	Corynebacterium diphtheriae	Toxin Detection by PCR for *Corynebacterium diphtheriae* as documented in MKAK/BAK/WI-47.
	Corynebacterium diphtheriae	Modified Elek's gel diffusion method for *Corynebacterium diphtheriae* as Documented in MKAK/BAK/WI-47
	Haemophilus influenzae	Serotyping for *Haemophilus influenzae* as documented in MKAK/BAK/WI-60
	Neisseria meningitidis	Serotyping for *Neisseria meningitidis* as documented in MKAK/BAK/WI-61

	Acinetobacter baumannii *Burkholderia cepacia* *Campylobacter jejuni* *Corynebacterium diphtheriae* *E.coli O157:H7* *Klebsiella pneumoniae* *Neisseria meningitidis* *Pseudomonas aeruginosa* *Salmonella sp.* *Serratia marcescens* *Shigella sonnei* *Shigella flexneri* *Stapylococcus aureus* *Vibrio cholerae*	Pulsed-Field Gel Electrophoresis as documented in MKAK/BAK/WI-59
	Salmonella sp	Serotyping for *Salmonella sp* as documented in MKAK/BAK/WI-28.
Throat Swab, Nasopharyngeal Aspirate, Nasopharyngeal Swab, Nasal Swab, Sputum	Respiratory pathogens	Culture and Sensitivity for Respiratory pathogens as documented in MKAK/BAK/WI-31 and Antibiotic Susceptibility Testing as documented in MKAK/BAK/WI-03.
Serology Serum	*Leptospira interrogans*	*Leptospira* serovars identification by Microscopic Agglutination Test as documented in MKAK/BAK/WI-55
	Leptospira IgM	Detection of *Leptospira* using the SERION ELISA Classic Leptospira IgM as documented in MKAK/BAK/WI-49.
	Coxiella burnetti IgM	*Coxiella burnetti* IgM ELISA Test as documented in MKAK/BAK/WI-32.
	Coxiella burnetti IgG	*Coxiella burnetti* IgG ELISA Test as documented in MKAK/BAK/WI-33.
	Treponema pallidum	Screening Method for *Treponema pallidum* by Rapid Plasma Reaging (RPR) as documented in MKAK/BAK/WI-50.
	Treponema pallidum	Confirmatory Method by *Treponema pallidum* Passive Particle Agglutination (TPPA) as documented in MKAK/BAK/WI-51.

Cerebrospinal Fluid (csf), Tracheal Aspirate, Bronchoalveloar Larvage (bal), Pleural Fluid, Plasma In Edta	*Neisseria meningitidis* *Haemophilus influenzae* *Streptococcus pneumoniae*	Detection of *Neisseria meningitidis, Haemophilus influenzae* and *Streptococcus pneumoniae* by real-time polymerase chain reaction (qPCR) as documented in MKAK/BAK/WI-38
Urine	*Candida sp* *Corynebacterium urealyticum* *Enterococcus sp* *Enterobacterales* *Pseudomonas sp.* *Salmonella sp.* *Staphylococcus aureus (MRSA)* *Staphylococcus epidermidis* *Staphylococcus saprophyticus* *Streptococcus agalactiae*	Culture for Urine Pathogens-as documented in MKAK/BAK/WI03 and Antibiotic Susceptibility Testing as documented in MKAK/BAK/WI-03
Sputum, Pus, Nasal Swab (carrier Screening), Isolate, Blood, Sterile Body Fluid	Methicillin Resistance Staphylococcus aureus (MRSA)	Detection of Methicillin Resistant *Staphylococcus aureus* (MRSA) as documented in MKAK/BAK/WI-48 and Antibiotic Susceptibility Testing as documented in MKAK/BAK/WI-03.
Nasopharyngeal Aspirate, Nasopharyngeal Swab	*Bordetella pertussis*	Detection of *Bordetella pertussis* by Real Time Polymerase Chain Reaction (PCR) as documented in MKAK/BAK/WI-23.

SCOPE OF MEDICAL TESTING : MEDICAL MICROBIOLOGY (VIROLOGY)

Specimen Tested	**Type of Test/ Properties Measured/**	**Test Methods,Specifications/ Equipment/Techniques Used**
Stool & Rectal Swab	*Salmonella* Typhi and *Salmonella sp*	Culture ans Sensitivity for *Salmonella* Typhi and *Salmonella sp* as documented In MKAK/BAK/WI-04 and Antibiotic Susceptibility Testing as documented in MKAK/BAK/WI-03.

	Vibrio cholerae	Culture and Sensitivity for *Vibrio cholerae* as documented in MKAK/BAK/WI-05 and Antibiotic Susceptibility Testing as documented in MKAK/BAK/WI-03.
	Enteric Pathogens	Culture and Sensitivity for Enteric Pathogens as documented in MKAK/BAK/WI-10 and Antibiotic Susceptibility Testing as Documented in MKAK/BAK/WI-03.
Isolate	*Vibrio cholerae*	Serotyping and Biotyping for *Vibrio cholerae* as documented in MKAK/BAK/WI-05.
	Corynebacterium diphtheriae	Culture and Sensitivity for *Corynebacterium diphtheria* as documented in MKAK/BAK/WI-47 and Antibiotic Susceptibility Testing as documented in MKAK/BAK/WI-03.
	Corynebacterium diphtheriae	Toxin Detection by PCR for *Corynebacterium diphtheriae* as documented in MKAK/BAK/WI-47.
	Corynebacterium diphtheriae	Modified Elek's gel diffusion method for *Corynebacterium diphtheriae* as Documented in MKAK/BAK/WI-47
	Haemophilus influenzae	Serotyping for *Haemophilus influenzae* as documented in MKAK/BAK/WI-60
	Neisseria meningitidis	Serotyping for *Neisseria meningitidis* as documented in MKAK/BAK/WI-61

	Acinetobacter baumannii *Burkholderia cepacia* *Campylobacter jejuni* *Corynebacterium diphtheriae* *E.coli O157:H7* *Klebsiella pneumoniae* *Neisseria meningitidis* *Pseudomonas aeruginosa* *Salmonella sp.* *Serratia marcescens* *Shigella sonnei* *Shigella flexneri* *Stapylococcus aureus* *Vibrio cholerae*	Pulsed-Field Gel Electrophoresis as documented in MKAK/BAK/WI-59
	Salmonella sp	Serotyping for *Salmonella sp* as documented in MKAK/BAK/WI-28.
Throat Swab, Nasopharyngeal Aspirate, Nasopharyngeal Swab, Nasal Swab, Sputum	Respiratory pathogens	Culture and Sensitivity for Respiratory pathogens as documented in MKAK/BAK/WI-31 and Antibiotic Susceptibility Testing as documented in MKAK/BAK/WI-03.
Serology Serum	*Leptospira interrogans*	*Leptospira* serovars identification by Microscopic Agglutination Test as documented in MKAK/BAK/WI-55
	Leptospira IgM	Detection of *Leptospira* using the SERION ELISA Classic Leptospira IgM as documented in MKAK/BAK/WI-49.
	Coxiella burnetti IgM	*Coxiella burnetti* IgM ELISA Test as documented in MKAK/BAK/WI-32.
	Coxiella burnetti IgG	*Coxiella burnetti* IgG ELISA Test as documented in MKAK/BAK/WI-33.
	Treponema pallidum	Screening Method for *Treponema pallidum* by Rapid Plasma Reaging (RPR) as documented in MKAK/BAK/WI-50.
	Treponema pallidum	Confirmatory Method by *Treponema pallidum* Passive Particle Agglutination (TPPA) as documented in MKAK/BAK/WI-51.

Cerebrospinal Fluid (csf), Tracheal Aspirate, Bronchoalveloar Larvage (bal), Pleural Fluid, Plasma In Edta	*Neisseria meningitidis* *Haemophilus influenzae* *Streptococcus pneumoniae*	Detection of *Neisseria meningitidis, Haemophilus influenzae* and *Streptococcus pneumoniae* by real-time polymerase chain reaction (qPCR) as documented in MKAK/BAK/WI-38
Urine	*Candida sp* *Corynebacterium urealyticum* *Enterococcus sp* *Enterobacterales* *Pseudomonas sp.* *Salmonella sp.* *Staphylococcus aureus (MRSA)* *Staphylococcus epidermidis* *Staphylococcus saprophyticus* *Streptococcus agalactiae*	Culture for Urine Pathogens-as documented in MKAK/BAK/WI03 and Antibiotic Susceptibility Testing as documented in MKAK/BAK/WI-03
Sputum, Pus, Nasal Swab (carrier Screening), Isolate, Blood, Sterile Body Fluid	Methicillin Resistance Staphylococcus aureus (MRSA)	Detection of Methicillin Resistant *Staphylococcus aureus* (MRSA) as documented in MKAK/BAK/WI-48 and Antibiotic Susceptibility Testing as documented in MKAK/BAK/WI-03.
Nasopharyngeal Aspirate, Nasopharyngeal Swab	*Bordetella pertussis*	Detection of *Bordetella pertussis* by Real Time Polymerase Chain Reaction (PCR) as documented in MKAK/BAK/WI-23.

SCOPE OF MEDICAL TESTING : MEDICAL MICROBIOLOGY (BACTERIOLOGY)

Specimen Tested	**Type of Test/ Properties Measured/**	**Test Methods,Specifications/ Equipment/Techniques Used**
Clinical Specimen	Microscopic Examination of AFB Smears	Preparation, staining and AFB Smear Examination using microscope as documented in MKAK/TB/WI-01.
	Culture Procedure For *Mycobacteria*	Culture of Clinical Specimen using Automated BACTEC MGIT 960 and Conventional Method as documented in MKAK/TB/WI-02.

Clinical Specimen & Isolate	Detection of Multi Drug Resistant *Mycobacterium tuberculosis*	Line Probe Assay Method using Thermocycler and Hybridization Equipment as documented in MKAK/TB/WI-19. Real-time PCR Method using Real-time Thermal Cycler as documented in MKAK/TB/WI-28.
Isolate	Identification Test of *Mycobacterium tuberculosis* complex	Manufacturer method using kits as documented in Identification Test of *Mycobacterium tuberculosis* Complex Using Immunochromatography Method MKAK/TB/WI-16 and Identification Test for *Mycobacterial Species* Using Line Probe Assay as documented in MKAK/TB/WI-17.
	Antibiotic Susceptibility Testing for First Line Antibiotic *Mycobacterium tuberculosis* complex	Sensitivity Method Using Absolute Concentration Method as documented in MKAK/TB/WI-05 and Sensitivity Method using Automated BACTEC MGIT 960 as documented In MKAK/TB/WI-06.
Plasma	Interferon Gamma Release Assay (IGRA)	ELISA Test (Quantiferon TB Gold-plus kit) using DYNEX DS2® System as documented in MKAK/TB/WI-27
mycobacterium Tuberculosis Isolate	Antibiotic Susceptibility Testing (AST) for Secondline Antibiotic *Mycobacterium tuberculosis* complex	Sensitivity Method Using Automated BACTEC MGIT 960 as documented in MKAK/TB/WI-14
	Antibiotic Susceptibility Testing for Second-line Antibiotic *Mycobacterium tuberculosis* complex	Molecular Detection of mutations associated with second line drug resistance as documented in MKAK/TB/WI-22
Clinical Specimen (sputum, Csf, Tissue) *mycobacterium Tuberculosis* Isolate	Molecular detection of Mycobacterium tuberculosis and Rifampicin resistance	Molecular detection of Mycobacterium tuberculosis and Rifampicin resistance using Xpert MTB/RIF test as documented in MKAK/TB/WI-29

SCOPE OF MEDICAL TESTING : MEDICAL MICROBIOLOGY (NATIONAL TUBERCULOSIS REFERENCE LABORATORY)

Specimen Tested	**Type of Test/ Properties Measured/**	**Test Methods,Specifications/ Equipment/Techniques Used**
Clinical Specimen	Microscopic Examination of AFB Smears	Preparation, staining and AFB Smear Examination using microscope as documented in MKAK/TB/WI-01.
	Culture Procedure For *Mycobacteria*	Culture of Clinical Specimen using Automated BACTEC MGIT 960 and Conventional Method as documented in MKAK/TB/WI-02.
Clinical Specimen & Isolate	Detection of Multi Drug Resistant *Mycobacterium tuberculosis*	Line Probe Assay Method using Thermocycler and Hybridization Equipment as documented in MKAK/TB/WI-19. Real-time PCR Method using Real-time Thermal Cycler as documented in MKAK/TB/WI-28.
Isolate	Identification Test of *Mycobacterium tuberculosis* complex	Manufacturer method using kits as documented in Identification Test of *Mycobacterium tuberculosis* Complex Using Immunochromatography Method MKAK/TB/WI-16 and Identification Test for *Mycobacterial Species* Using Line Probe Assay as documented in MKAK/TB/WI-17.
	Antibiotic Susceptibility Testing for First Line Antibiotic *Mycobacterium tuberculosis* complex	Sensitivity Method Using Absolute Concentration Method as documented in MKAK/TB/WI-05 and Sensitivity Method using Automated BACTEC MGIT 960 as documented In MKAK/TB/WI-06.
Plasma	Interferon Gamma Release Assay (IGRA)	ELISA Test (Quantiferon TB Gold-plus kit) using DYNEX DS2® System as documented in MKAK/TB/WI-27
mycobacterium Tuberculosis Isolate	Antibiotic Susceptibility Testing (AST) for Secondline Antibiotic *Mycobacterium tuberculosis* complex	Sensitivity Method Using Automated BACTEC MGIT 960 as documented in MKAK/TB/WI-14
	Antibiotic Susceptibility Testing for Second-line Antibiotic *Mycobacterium tuberculosis* complex	Molecular Detection of mutations associated with second line drug resistance as documented in MKAK/TB/WI-22

Clinical Specimen (sputum, Csf, Tissue) *mycobacterium Tuberculosis* Isolate	Molecular detection of Mycobacterium tuberculosis and Rifampicin resistance	Molecular detection of Mycobacterium tuberculosis and Rifampicin resistance using Xpert MTB/RIF test as documented in MKAK/TB/WI-29

SCOPE OF MEDICAL TESTING : MEDICAL MICROBIOLOGY (LEPROSY)

Specimen Tested	**Type of Test/ Properties Measured/**	**Test Methods,Specifications/ Equipment/Techniques Used**
Clinical Specimen	Microscopic Examination of AFB Smears	Preparation, staining and AFB Smear Examination using microscope as documented in MKAK/TB/WI-01.
	Culture Procedure For *Mycobacteria*	Culture of Clinical Specimen using Automated BACTEC MGIT 960 and Conventional Method as documented in MKAK/TB/WI-02.
Clinical Specimen & Isolate	Detection of Multi Drug Resistant *Mycobacterium tuberculosis*	Line Probe Assay Method using Thermocycler and Hybridization Equipment as documented in MKAK/TB/WI-19. Real-time PCR Method using Real-time Thermal Cycler as documented in MKAK/TB/WI-28.
Isolate	Identification Test of *Mycobacterium tuberculosis* complex	Manufacturer method using kits as documented in Identification Test of *Mycobacterium tuberculosis* Complex Using Immunochromatography Method MKAK/TB/WI-16 and Identification Test for *Mycobacterial Species* Using Line Probe Assay as documented in MKAK/TB/WI-17.
	Antibiotic Susceptibility Testing for First Line Antibiotic *Mycobacterium tuberculosis* complex	Sensitivity Method Using Absolute Concentration Method as documented in MKAK/TB/WI-05 and Sensitivity Method using Automated BACTEC MGIT 960 as documented In MKAK/TB/WI-06.
Plasma	Interferon Gamma Release Assay (IGRA)	ELISA Test (Quantiferon TB Gold-plus kit) using DYNEX DS2® System as documented in MKAK/TB/WI-27

mycobacterium Tuberculosis Isolate	Antibiotic Susceptibility Testing (AST) for Secondline Antibiotic *Mycobacterium tuberculosis* complex	Sensitivity Method Using Automated BACTEC MGIT 960 as documented in MKAK/TB/WI-14
	Antibiotic Susceptibility Testing for Second-line Antibiotic *Mycobacterium tuberculosis* complex	Molecular Detection of mutations associated with second line drug resistance as documented in MKAK/TB/WI-22
Clinical Specimen (sputum, Csf, Tissue) *mycobacterium Tuberculosis* Isolate	Molecular detection of Mycobacterium tuberculosis and Rifampicin resistance	Molecular detection of Mycobacterium tuberculosis and Rifampicin resistance using Xpert MTB/RIF test as documented in MKAK/TB/WI-29

SCOPE OF MEDICAL TESTING : MEDICAL MICROBIOLOGY (PARASITOLOGY)

Specimen Tested	**Type of Test/ Properties Measured/**	**Test Methods,Specifications/ Equipment/Techniques Used**
Clinical Specimen	Microscopic Examination of AFB Smears	Preparation, staining and AFB Smear Examination using microscope as documented in MKAK/TB/WI-01.
	Culture Procedure For *Mycobacteria*	Culture of Clinical Specimen using Automated BACTEC MGIT 960 and Conventional Method as documented in MKAK/TB/WI-02.
Clinical Specimen & Isolate	Detection of Multi Drug Resistant *Mycobacterium tuberculosis*	Line Probe Assay Method using Thermocycler and Hybridization Equipment as documented in MKAK/TB/WI-19. Real-time PCR Method using Real-time Thermal Cycler as documented in MKAK/TB/WI-28.
Isolate	Identification Test of *Mycobacterium tuberculosis* complex	Manufacturer method using kits as documented in Identification Test of *Mycobacterium tuberculosis* Complex Using Immunochromatography Method MKAK/TB/WI-16 and Identification Test for *Mycobacterial Species* Using Line Probe Assay as documented in MKAK/TB/WI-17.

	Antibiotic Susceptibility Testing for First Line Antibiotic *Mycobacterium tuberculosis* complex	Sensitivity Method Using Absolute Concentration Method as documented in MKAK/TB/WI-05 and Sensitivity Method using Automated BACTEC MGIT 960 as documented In MKAK/TB/WI-06.
Plasma	Interferon Gamma Release Assay (IGRA)	ELISA Test (Quantiferon TB Gold-plus kit) using DYNEX DS2® System as documented in MKAK/TB/WI-27
mycobacterium Tuberculosis Isolate	Antibiotic Susceptibility Testing (AST) for Secondline Antibiotic *Mycobacterium tuberculosis* complex	Sensitivity Method Using Automated BACTEC MGIT 960 as documented in MKAK/TB/WI-14
	Antibiotic Susceptibility Testing for Second-line Antibiotic *Mycobacterium tuberculosis* complex	Molecular Detection of mutations associated with second line drug resistance as documented in MKAK/TB/WI-22
Clinical Specimen (sputum, Csf, Tissue) *mycobacterium Tuberculosis* Isolate	Molecular detection of Mycobacterium tuberculosis and Rifampicin resistance	Molecular detection of Mycobacterium tuberculosis and Rifampicin resistance using Xpert MTB/RIF test as documented in MKAK/TB/WI-29

SCOPE OF MEDICAL TESTING : MEDICAL MICROBIOLOGY (VIROLOGY)

Specimen Tested	**Type of Test/ Properties Measured/**	**Test Methods,Specifications/ Equipment/Techniques Used**
Clinical Specimen	Microscopic Examination of AFB Smears	Preparation, staining and AFB Smear Examination using microscope as documented in MKAK/TB/WI-01.
	Culture Procedure For *Mycobacteria*	Culture of Clinical Specimen using Automated BACTEC MGIT 960 and Conventional Method as documented in MKAK/TB/WI-02.
Clinical Specimen & Isolate	Detection of Multi Drug Resistant *Mycobacterium tuberculosis*	Line Probe Assay Method using Thermocycler and Hybridization Equipment as documented in MKAK/TB/WI-19. Real-time PCR Method using Real-time Thermal Cycler as documented in MKAK/TB/WI-28.

Isolate	Identification Test of *Mycobacterium tuberculosis* complex	Manufacturer method using kits as documented in Identification Test of *Mycobacterium tuberculosis* Complex Using Immunochromatography Method MKAK/TB/WI-16 and Identification Test for *Mycobacterial Species* Using Line Probe Assay as documented in MKAK/TB/WI-17.
	Antibiotic Susceptibility Testing for First Line Antibiotic *Mycobacterium tuberculosis* complex	Sensitivity Method Using Absolute Concentration Method as documented in MKAK/TB/WI-05 and Sensitivity Method using Automated BACTEC MGIT 960 as documented In MKAK/TB/WI-06.
Plasma	Interferon Gamma Release Assay (IGRA)	ELISA Test (Quantiferon TB Gold-plus kit) using DYNEX DS2® System as documented in MKAK/TB/WI-27
mycobacterium Tuberculosis Isolate	Antibiotic Susceptibility Testing (AST) for Secondline Antibiotic *Mycobacterium tuberculosis* complex	Sensitivity Method Using Automated BACTEC MGIT 960 as documented in MKAK/TB/WI-14
	Antibiotic Susceptibility Testing for Second-line Antibiotic *Mycobacterium tuberculosis* complex	Molecular Detection of mutations associated with second line drug resistance as documented in MKAK/TB/WI-22
Clinical Specimen (sputum, Csf, Tissue) *mycobacterium Tuberculosis* Isolate	Molecular detection of Mycobacterium tuberculosis and Rifampicin resistance	Molecular detection of Mycobacterium tuberculosis and Rifampicin resistance using Xpert MTB/RIF test as documented in MKAK/TB/WI-29

SCOPE OF MEDICAL TESTING : MEDICAL MICROBIOLOGY (BACTERIOLOGY)

Specimen Tested	**Type of Test/ Properties Measured/**	**Test Methods,Specifications/ Equipment/Techniques Used**

Skin Tissue	Microscopic detection of *M. leprae* by Slit Skin Smear method	Skin Slit, Staining and Microscopic of Skin Tissue Using Method as documented in Slit Skin Smear Preparation, MKAK/LEP/WI-01, Preparation of Modified Ziehl-Neelsen Stains, MKAK/LEP/WI-02, Modified Ziehl-Neelsen Staining, MKAK/LEP/WI03 and Slit Skin Smear Microscopic Examination, MKAK/LEP/WI-04.

SCOPE OF MEDICAL TESTING : MEDICAL MICROBIOLOGY (NATIONAL TUBERCULOSIS REFERENCE LABORATORY)

Specimen Tested	**Type of Test/ Properties Measured/**	**Test Methods,Specifications/ Equipment/Techniques Used**
Skin Tissue	Microscopic detection of *M. leprae* by Slit Skin Smear method	Skin Slit, Staining and Microscopic of Skin Tissue Using Method as documented in Slit Skin Smear Preparation, MKAK/LEP/WI-01, Preparation of Modified Ziehl-Neelsen Stains, MKAK/LEP/WI-02, Modified Ziehl-Neelsen Staining, MKAK/LEP/WI03 and Slit Skin Smear Microscopic Examination, MKAK/LEP/WI-04.

SCOPE OF MEDICAL TESTING : MEDICAL MICROBIOLOGY (LEPROSY)

Specimen Tested	**Type of Test/ Properties Measured/**	**Test Methods,Specifications/ Equipment/Techniques Used**
Skin Tissue	Microscopic detection of *M. leprae* by Slit Skin Smear method	Skin Slit, Staining and Microscopic of Skin Tissue Using Method as documented in Slit Skin Smear Preparation, MKAK/LEP/WI-01, Preparation of Modified Ziehl-Neelsen Stains, MKAK/LEP/WI-02, Modified Ziehl-Neelsen Staining, MKAK/LEP/WI03 and Slit Skin Smear Microscopic Examination, MKAK/LEP/WI-04.

SCOPE OF MEDICAL TESTING : MEDICAL MICROBIOLOGY (PARASITOLOGY)

Specimen Tested	**Type of Test/ Properties Measured/**	**Test Methods,Specifications/ Equipment/Techniques Used**
Skin Tissue	Microscopic detection of *M. leprae* by Slit Skin Smear method	Skin Slit, Staining and Microscopic of Skin Tissue Using Method as documented in Slit Skin Smear Preparation, MKAK/LEP/WI-01, Preparation of Modified Ziehl-Neelsen Stains, MKAK/LEP/WI-02, Modified Ziehl-Neelsen Staining, MKAK/LEP/WI03 and Slit Skin Smear Microscopic Examination, MKAK/LEP/WI-04.

SCOPE OF MEDICAL TESTING : MEDICAL MICROBIOLOGY (VIROLOGY)

Specimen Tested	**Type of Test/ Properties Measured/**	**Test Methods,Specifications/ Equipment/Techniques Used**
Skin Tissue	Microscopic detection of *M. leprae* by Slit Skin Smear method	Skin Slit, Staining and Microscopic of Skin Tissue Using Method as documented in Slit Skin Smear Preparation, MKAK/LEP/WI-01, Preparation of Modified Ziehl-Neelsen Stains, MKAK/LEP/WI-02, Modified Ziehl-Neelsen Staining, MKAK/LEP/WI03 and Slit Skin Smear Microscopic Examination, MKAK/LEP/WI-04.

SCOPE OF MEDICAL TESTING : MEDICAL MICROBIOLOGY (BACTERIOLOGY)

Specimen Tested	**Type of Test/ Properties Measured/**	**Test Methods,Specifications/ Equipment/Techniques Used**

Whole Blood In Edta Tube, Blood Spot On Filter Paper, Blood Film, Giemsa Stained Blood Smear	Molecular detection of *Plasmodium species.*	Real Time PCR Method as documented in Handling And Processing of specimen for Parasitology Section MKAK/ PARA/WP-01, Processing Specimen for Polymerase Chain Reaction (PCR) Analysis MKAK/PARA/WP-02, Nucleic Acid Extraction MKAK/PARA/WI-01 and Real Time PCR for *Plasmodium Species* (MKAK/PARA/WI-02).

SCOPE OF MEDICAL TESTING : MEDICAL MICROBIOLOGY (NATIONAL TUBERCULOSIS REFERENCE LABORATORY)

Specimen Tested	**Type of Test/ Properties Measured/**	**Test Methods,Specifications/ Equipment/Techniques Used**
Whole Blood In Edta Tube, Blood Spot On Filter Paper, Blood Film, Giemsa Stained Blood Smear	Molecular detection of *Plasmodium species.*	Real Time PCR Method as documented in Handling And Processing of specimen for Parasitology Section MKAK/ PARA/WP-01, Processing Specimen for Polymerase Chain Reaction (PCR) Analysis MKAK/PARA/WP-02, Nucleic Acid Extraction MKAK/PARA/WI-01 and Real Time PCR for *Plasmodium Species* (MKAK/PARA/WI-02).

SCOPE OF MEDICAL TESTING : MEDICAL MICROBIOLOGY (LEPROSY)

Specimen Tested	**Type of Test/ Properties Measured/**	**Test Methods,Specifications/ Equipment/Techniques Used**

Whole Blood In Edta Tube, Blood Spot On Filter Paper, Blood Film, Giemsa Stained Blood Smear	Molecular detection of *Plasmodium species.*	Real Time PCR Method as documented in Handling And Processing of specimen for Parasitology Section MKAK/ PARA/WP-01, Processing Specimen for Polymerase Chain Reaction (PCR) Analysis MKAK/PARA/WP-02, Nucleic Acid Extraction MKAK/PARA/WI-01 and Real Time PCR for *Plasmodium Species* (MKAK/PARA/WI-02).

SCOPE OF MEDICAL TESTING : MEDICAL MICROBIOLOGY (PARASITOLOGY)

Specimen Tested	**Type of Test/ Properties Measured/**	**Test Methods,Specifications/ Equipment/Techniques Used**
Whole Blood In Edta Tube, Blood Spot On Filter Paper, Blood Film, Giemsa Stained Blood Smear	Molecular detection of *Plasmodium species.*	Real Time PCR Method as documented in Handling And Processing of specimen for Parasitology Section MKAK/ PARA/WP-01, Processing Specimen for Polymerase Chain Reaction (PCR) Analysis MKAK/PARA/WP-02, Nucleic Acid Extraction MKAK/PARA/WI-01 and Real Time PCR for *Plasmodium Species* (MKAK/PARA/WI-02).

SCOPE OF MEDICAL TESTING : MEDICAL MICROBIOLOGY (VIROLOGY)

Specimen Tested	**Type of Test/ Properties Measured/**	**Test Methods,Specifications/ Equipment/Techniques Used**

Whole Blood In Edta Tube, Blood Spot On Filter Paper, Blood Film, Giemsa Stained Blood Smear	Molecular detection of *Plasmodium species.*	Real Time PCR Method as documented in Handling And Processing of specimen for Parasitology Section MKAK/ PARA/WP-01, Processing Specimen for Polymerase Chain Reaction (PCR) Analysis MKAK/PARA/WP-02, Nucleic Acid Extraction MKAK/PARA/WI-01 and Real Time PCR for *Plasmodium Species* (MKAK/PARA/WI-02).

SCOPE OF MEDICAL TESTING : MEDICAL MICROBIOLOGY (BACTERIOLOGY)

Specimen Tested	**Type of Test/ Properties Measured/**	**Test Methods,Specifications/ Equipment/Techniques Used**
Urine, Throat Swab, Nasopharyngeal Secretions, Csf, Organ Biopsy And Cell Culture.	Molecular Detection of Measles Virus	Molecular Detection of Measles Virus and Rubella Virus as documented in MKAK/BP/MOL/WI-03 and Polymerase Chain Reaction (PCR) Analysis for Virus - From Receiving to Disposal as documented in MKAK/BP/MOL/WP-01, Handling & Management of Positive Control and Negative Control in MKAK/BP/MOL/WP-02.
Urine, Throat Swab, Nasopharyngeal Secretions, Csf, Organ Biopsy And Cell Culture (rubella Test)	~~Molecular Detection of Rubella Virus~~ **(INOPERATIVE)**	~~Molecular Detection of Measles Virus and Rubella Virus as documented in MKAK/BP/MOL/WI-03 and Polymerase Chain Reaction (PCR) Analysis for Virus - From Receiving to Disposal as documented in MKAK/BP/MOL/WP-01, Handling & Management of Positive Control and Negative Control in MKAK/BP /MOL/WP-02.~~ **(INOPERATIVE)**

Throat Swab, Nasal Swab, Sputum, Nasopharyngeal Aspirates, Organ Biopsies, Bronchiol Alveolar Larvage, Throat Washing, Eye Swab, Endotracheal Tube And Cell Culture.	Molecular Detection of Influenza A and B Virus	Molecular Detection of Influenza A and B Virus as documented in MKAK/BP/MOL/WI-04 and Polymerase Chain Reaction (PCR) Analysis for Virus - From Receiving to Disposal as documented in MKAK/BP/MOL/WP-01, Handling & Management of Positive Control and Negative Control in MKAK/BP/MOL/WP-02.
Serum, Cerebrospinal Fluid, Organ Biopsy And Cell Culture	Molecular Detection of Dengue virus	Molecular Detection of Dengue Virus as documented in MKAK/BP/MOL/WI-05 and Polymerase Chain Reaction (PCR) Analysis for Virus- From Receiving to Disposal as documented in MKAK/BP/MOL/WP-01, Handling & Management of Positive Control and Negative Control in MKAK/BP/MOL/WP-02.
Vesicle Swab, Serum, Cerebrospinal Fluid, And Mouth Ulcer Swab	Molecular Detection of Varicella Zoster Virus	Molecular Detection of Varicella Zoster Virus as documented in MKAK/BP/MOL/WI-07 and Polymerase Chain Reaction (PCR) Analysis for Virus- From Receiving to Disposal as documented in MKAK/BP/MOL/WP-01, Handling & Management of Positive Control and Negative Control in MKAK/BP/MOL/WP-02.
Nasopharyngeal Swab, Oropharyngeal Swab, Combine Nasopharyngeal And Oropharyngeal Swab, Deep Throat Saliva (dts) Saliva	Real-Time RT-PCR Assay for Detection of SARS-CoV-2	Real-Time RT PCR Assay as documented in Real-time RT-PCR Assay for Detection of SARS-CoV-2 (MKAK/BP/MOL/WI-13) Polymerase Chain Reaction (PCR) Analysis fo Virus - From Receiving to Disposal as documented in MKAK/BP/MOL/WP-02, Handling & Management of Positive Control and Negative Control in MKAK/BP/MOL/WP-02.

Rectal Swab, Stool, Cerebrospinal Fluid, Serum, Throat Swab, Mouth Ulcer Swab Vesicle Swab, Ulcer Swab, Pleural Fluid, Organ Biopsy And Cell Culture.	Molecular Detection of Enterovirus	Molecular Detection of Enterovirus as documented in MKAK/BP/MOL/WI-08 and Polymerase Chain Reaction (PCR) Analysis for Virus- From Receiving to Disposal as documented in MKAK/BP/MOL/WP-01, Handling & Management of Positive Control and Negative Control in MKAK/BP/MOL/WP-02.
Cerebrospinal Fluid, Skin Lesions Swab, Vesicle Swab/fluid, Serum, Genital Swab And Mouth Ulcer Swab, Tissue Culture, Tissue Biopsy, Bronchoalveolar Lavage, Nasopharyngeal Aspirate, Tracheal Aspirate, Nasopharyngeal Swab, Rectal Swab, Eye Swab	Molecular Detection of Herpes Simplex Virus	Molecular Detection of Herpes Simplex Virus as documented in MKAK/BP/MOL/WI-09 and Polymerase Chain Reaction (PCR) Analysis for Virus- From Receiving to Disposal as documented in MKAK/BP/MOL/WP-01, Handling & Management of Positive Control and Negative Control in MKAK/BP/MOL/WP-02.
Serum And Cerebrospinal Fluid, Tissue Biopsy And Cell Culture Fluid	Molecular Detection of Japanese Encephalitis virus	Molecular Detection of Japanese Encephalitis Virus as documented in MKAK/BP/MOL/WI-10 and Polymerase Chain Reaction (PCR) Analysis for Virus- From Receiving to Disposal as documented in MKAK/BP/MOL/WP-01, Handling & Management of Positive Control and Negative Control in MKAK/BP/MOL/WP-02.
Blood, Serum	Detection of Measles IgM Antibody	Manufacturer Method/ Microplate Reader/ Enzyme Linked Immunosorbent Assay (ELISA) Technique as documented in MKAK/BP/SERO/WI-02.
	Detection of Rubella IgM Antibody	Manufacturer Method/ Microplate Reade / Enzyme Linked Immunosorbent Assay (ELISA) Technique as documented in MKAK/BP/SERO/WI-04.
Blood, Serum, Csf	Detection JE IgM Antibody	Manufacturer Method/Microplate Reader/ Enzyme Linked Immunosorbent Assay (ELISA) Technique as documented in MKAK/BP/SERO/WI-16.

Urine, Respiratory Specimen, Etc.	Virus Isolation of Measles Virus Isolation of Rubella	Virus Isolation and Identification of Measles and Rubella Virus as documented in MKAK/BP/VIRO/WI-07. Cell lines preparation follow Preparation of Media, Reagent and Antibiotic as documented in MKAK/BP/VIRO/WI-01, Quality Control Procedure for Mycoplasma Detection and Treatment of Infected Cell Lines as documented in MKAK/BP/VIRO/WI-02 and Preparation and Maintenance Procedure for Adherent Cell Lines as documented in MKAK/BP/VIRO/WI-04
Respiratory Specimen	Virus Isolation of Respiratory Viruses Respiratory Antigen Detection	Virus Isolation and Identification of Respiratory virus as documented in MKAK/BP/VIRO/WI-05. Cell lines preparation follow Preparation of Media, Reagent and Antibiotic as documented in MKAK/BP/VIRO/WI-01, Quality Control Procedure for Mycoplasma Detection and Treatment of Infected Cell Lines as documented in MKAK/BP/VIRO/WI-02 and Preparation and Maintenance Procedure for Adherent Cell Lines as documented in MKAK/BP/VIRO/WI-04
Blood, Serum, Cerebrospinal Fluid, Rectal Swab, Stool, Vesicle Swab/fluid, Throat Swab, Eye Swab, Pleural Fluid / Swab,tissue Biopsy, Etc.	Virus Isolation of Enterovirus	Virus Isolation and Identification of Enterovirus as documented in MKAK/BP/VIRO/WI-06. Cell lines preparation follow Preparation of Media, Reagent and Antibiotic as documented in MKAK/BP/VIRO/WI-01, Quality Control Procedure for Mycoplasma Detection and Treatment of Infected Cell Lines as documented in MKAK/BP/VIRO/WI-02 and Preparation and Maintenance Procedure for Adherent Cell Lines as documented in MKAK/BP/VIRO/WI-04

SCOPE OF MEDICAL TESTING : MEDICAL MICROBIOLOGY (NATIONAL TUBERCULOSIS REFERENCE LABORATORY)

Specimen Tested	**Type of Test/ Properties Measured/**	**Test Methods,Specifications/ Equipment/Techniques Used**
Urine, Throat Swab, Nasopharyngeal Secretions, Csf, Organ Biopsy And Cell Culture.	Molecular Detection of Measles Virus	Molecular Detection of Measles Virus and Rubella Virus as documented in MKAK/BP/MOL/WI-03 and Polymerase Chain Reaction (PCR) Analysis for Virus - From Receiving to Disposal as documented in MKAK/BP/MOL/WP-01, Handling & Management of Positive Control and Negative Control in MKAK/BP/MOL/WP-02.
Urine, Throat Swab, Nasopharyngeal Secretions, Csf, Organ Biopsy And Cell Culture (rubella Test)	~~Molecular Detection of Rubella Virus~~ **(INOPERATIVE)**	~~Molecular Detection of Measles Virus and Rubella Virus as documented in MKAK/BP/MOL/WI-03 and Polymerase Chain Reaction (PCR) Analysis for Virus - From Receiving to Disposal as documented in MKAK/BP/MOL/WP-01, Handling & Management of Positive Control and Negative Control in MKAK/BP /MOL/WP-02.~~ **(INOPERATIVE)**
Throat Swab, Nasal Swab, Sputum, Nasopharyngeal Aspirates, Organ Biopsies, Bronchiol Alveolar Larvage, Throat Washing, Eye Swab, Endotracheal Tube And Cell Culture.	Molecular Detection of Influenza A and B Virus	Molecular Detection of Influenza A and B Virus as documented in MKAK/BP/MOL/WI-04 and Polymerase Chain Reaction (PCR) Analysis for Virus - From Receiving to Disposal as documented in MKAK/BP/MOL/WP-01, Handling & Management of Positive Control and Negative Control in MKAK/BP/MOL/WP-02.

Serum, Cerebrospinal Fluid, Organ Biopsy And Cell Culture	Molecular Detection of Dengue virus	Molecular Detection of Dengue Virus as documented in MKAK/BP/MOL/WI-05 and Polymerase Chain Reaction (PCR) Analysis for Virus- From Receiving to Disposal as documented in MKAK/BP/MOL/WP-01, Handling & Management of Positive Control and Negative Control in MKAK/BP/MOL/WP-02.
Vesicle Swab, Serum, Cerebrospinal Fluid, And Mouth Ulcer Swab	Molecular Detection of Varicella Zoster Virus	Molecular Detection of Varicella Zoster Virus as documented in MKAK/BP/MOL/WI-07 and Polymerase Chain Reaction (PCR) Analysis for Virus- From Receiving to Disposal as documented in MKAK/BP/MOL/WP-01, Handling & Management of Positive Control and Negative Control in MKAK/BP/MOL/WP-02.
Nasopharyngeal Swab, Oropharyngeal Swab, Combine Nasopharyngeal And Oropharyngeal Swab, Deep Throat Saliva (dts) Saliva	Real-Time RT-PCR Assay for Detection of SARS-CoV-2	Real-Time RT PCR Assay as documented in Real-time RT-PCR Assay for Detection of SARS-CoV-2 (MKAK/BP/MOL/WI-13) Polymerase Chain Reaction (PCR) Analysis fo Virus - From Receiving to Disposal as documented in MKAK/BP/MOL/WP-02, Handling & Management of Positive Control and Negative Control in MKAK/BP/MOL/WP-02.
Rectal Swab, Stool, Cerebrospinal Fluid, Serum, Throat Swab, Mouth Ulcer Swab Vesicle Swab, Ulcer Swab, Pleural Fluid, Organ Biopsy And Cell Culture.	Molecular Detection of Enterovirus	Molecular Detection of Enterovirus as documented in MKAK/BP/MOL/WI-08 and Polymerase Chain Reaction (PCR) Analysis for Virus- From Receiving to Disposal as documented in MKAK/BP/MOL/WP-01, Handling & Management of Positive Control and Negative Control in MKAK/BP/MOL/WP-02.

Cerebrospinal Fluid, Skin Lesions Swab, Vesicle Swab/fluid, Serum, Genital Swab And Mouth Ulcer Swab, Tissue Culture, Tissue Biopsy, Bronchoalveolar Lavage, Nasopharyngeal Aspirate, Tracheal Aspirate, Nasopharyngeal Swab, Rectal Swab, Eye Swab	Molecular Detection of Herpes Simplex Virus	Molecular Detection of Herpes Simplex Virus as documented in MKAK/BP/MOL/WI-09 and Polymerase Chain Reaction (PCR) Analysis for Virus- From Receiving to Disposal as documented in MKAK/BP/MOL/WP-01, Handling & Management of Positive Control and Negative Control in MKAK/BP/MOL/WP-02.
Serum And Cerebrospinal Fluid, Tissue Biopsy And Cell Culture Fluid	Molecular Detection of Japanese Encephalitis virus	Molecular Detection of Japanese Encephalitis Virus as documented in MKAK/BP/MOL/WI-10 and Polymerase Chain Reaction (PCR) Analysis for Virus- From Receiving to Disposal as documented in MKAK/BP/MOL/WP-01, Handling & Management of Positive Control and Negative Control in MKAK/BP/MOL/WP-02.
Blood, Serum	Detection of Measles IgM Antibody	Manufacturer Method/ Microplate Reader/ Enzyme Linked Immunosorbent Assay (ELISA) Technique as documented in MKAK/BP/SERO/WI-02.
	Detection of Rubella IgM Antibody	Manufacturer Method/ Microplate Reade / Enzyme Linked Immunosorbent Assay (ELISA) Technique as documented in MKAK/BP/SERO/WI-04.
Blood, Serum, Csf	Detection JE IgM Antibody	Manufacturer Method/Microplate Reader/ Enzyme Linked Immunosorbent Assay (ELISA) Technique as documented in MKAK/BP/SERO/WI-16.

Urine, Respiratory Specimen, Etc.	Virus Isolation of Measles Virus Isolation of Rubella	Virus Isolation and Identification of Measles and Rubella Virus as documented in MKAK/BP/VIRO/WI-07. Cell lines preparation follow Preparation of Media, Reagent and Antibiotic as documented in MKAK/BP/VIRO/WI-01, Quality Control Procedure for Mycoplasma Detection and Treatment of Infected Cell Lines as documented in MKAK/BP/VIRO/WI-02 and Preparation and Maintenance Procedure for Adherent Cell Lines as documented in MKAK/BP/VIRO/WI-04
Respiratory Specimen	Virus Isolation of Respiratory Viruses Respiratory Antigen Detection	Virus Isolation and Identification of Respiratory virus as documented in MKAK/BP/VIRO/WI-05. Cell lines preparation follow Preparation of Media, Reagent and Antibiotic as documented in MKAK/BP/VIRO/WI-01, Quality Control Procedure for Mycoplasma Detection and Treatment of Infected Cell Lines as documented in MKAK/BP/VIRO/WI-02 and Preparation and Maintenance Procedure for Adherent Cell Lines as documented in MKAK/BP/VIRO/WI-04
Blood, Serum, Cerebrospinal Fluid, Rectal Swab, Stool, Vesicle Swab/fluid, Throat Swab, Eye Swab, Pleural Fluid / Swab,tissue Biopsy, Etc.	Virus Isolation of Enterovirus	Virus Isolation and Identification of Enterovirus as documented in MKAK/BP/VIRO/WI-06. Cell lines preparation follow Preparation of Media, Reagent and Antibiotic as documented in MKAK/BP/VIRO/WI-01, Quality Control Procedure for Mycoplasma Detection and Treatment of Infected Cell Lines as documented in MKAK/BP/VIRO/WI-02 and Preparation and Maintenance Procedure for Adherent Cell Lines as documented in MKAK/BP/VIRO/WI-04

SCOPE OF MEDICAL TESTING : MEDICAL MICROBIOLOGY (LEPROSY)

Specimen Tested	**Type of Test/ Properties Measured/**	**Test Methods,Specifications/ Equipment/Techniques Used**
Urine, Throat Swab, Nasopharyngeal Secretions, Csf, Organ Biopsy And Cell Culture.	Molecular Detection of Measles Virus	Molecular Detection of Measles Virus and Rubella Virus as documented in MKAK/BP/MOL/WI-03 and Polymerase Chain Reaction (PCR) Analysis for Virus - From Receiving to Disposal as documented in MKAK/BP/MOL/WP-01, Handling & Management of Positive Control and Negative Control in MKAK/BP/MOL/WP-02.
Urine, Throat Swab, Nasopharyngeal Secretions, Csf, Organ Biopsy And Cell Culture (rubella Test)	~~Molecular Detection of Rubella Virus~~ **(INOPERATIVE)**	~~Molecular Detection of Measles Virus and Rubella Virus as documented in MKAK/BP/MOL/WI-03 and Polymerase Chain Reaction (PCR) Analysis for Virus - From Receiving to Disposal as documented in MKAK/BP/MOL/WP-01, Handling & Management of Positive Control and Negative Control in MKAK/BP /MOL/WP-02.~~ **(INOPERATIVE)**
Throat Swab, Nasal Swab, Sputum, Nasopharyngeal Aspirates, Organ Biopsies, Bronchiol Alveolar Larvage, Throat Washing, Eye Swab, Endotracheal Tube And Cell Culture.	Molecular Detection of Influenza A and B Virus	Molecular Detection of Influenza A and B Virus as documented in MKAK/BP/MOL/WI-04 and Polymerase Chain Reaction (PCR) Analysis for Virus - From Receiving to Disposal as documented in MKAK/BP/MOL/WP-01, Handling & Management of Positive Control and Negative Control in MKAK/BP/MOL/WP-02.

Serum, Cerebrospinal Fluid, Organ Biopsy And Cell Culture	Molecular Detection of Dengue virus	Molecular Detection of Dengue Virus as documented in MKAK/BP/MOL/WI-05 and Polymerase Chain Reaction (PCR) Analysis for Virus- From Receiving to Disposal as documented in MKAK/BP/MOL/WP-01, Handling & Management of Positive Control and Negative Control in MKAK/BP/MOL/WP-02.
Vesicle Swab, Serum, Cerebrospinal Fluid, And Mouth Ulcer Swab	Molecular Detection of Varicella Zoster Virus	Molecular Detection of Varicella Zoster Virus as documented in MKAK/BP/MOL/WI-07 and Polymerase Chain Reaction (PCR) Analysis for Virus- From Receiving to Disposal as documented in MKAK/BP/MOL/WP-01, Handling & Management of Positive Control and Negative Control in MKAK/BP/MOL/WP-02.
Nasopharyngeal Swab, Oropharyngeal Swab, Combine Nasopharyngeal And Oropharyngeal Swab, Deep Throat Saliva (dts) Saliva	Real-Time RT-PCR Assay for Detection of SARS-CoV-2	Real-Time RT PCR Assay as documented in Real-time RT-PCR Assay for Detection of SARS-CoV-2 (MKAK/BP/MOL/WI-13) Polymerase Chain Reaction (PCR) Analysis fo Virus - From Receiving to Disposal as documented in MKAK/BP/MOL/WP-02, Handling & Management of Positive Control and Negative Control in MKAK/BP/MOL/WP-02.
Rectal Swab, Stool, Cerebrospinal Fluid, Serum, Throat Swab, Mouth Ulcer Swab Vesicle Swab, Ulcer Swab, Pleural Fluid, Organ Biopsy And Cell Culture.	Molecular Detection of Enterovirus	Molecular Detection of Enterovirus as documented in MKAK/BP/MOL/WI-08 and Polymerase Chain Reaction (PCR) Analysis for Virus- From Receiving to Disposal as documented in MKAK/BP/MOL/WP-01, Handling & Management of Positive Control and Negative Control in MKAK/BP/MOL/WP-02.

Cerebrospinal Fluid, Skin Lesions Swab, Vesicle Swab/fluid, Serum, Genital Swab And Mouth Ulcer Swab, Tissue Culture, Tissue Biopsy, Bronchoalveolar Lavage, Nasopharyngeal Aspirate, Tracheal Aspirate, Nasopharyngeal Swab, Rectal Swab, Eye Swab	Molecular Detection of Herpes Simplex Virus	Molecular Detection of Herpes Simplex Virus as documented in MKAK/BP/MOL/WI-09 and Polymerase Chain Reaction (PCR) Analysis for Virus- From Receiving to Disposal as documented in MKAK/BP/MOL/WP-01, Handling & Management of Positive Control and Negative Control in MKAK/BP/MOL/WP-02.
Serum And Cerebrospinal Fluid, Tissue Biopsy And Cell Culture Fluid	Molecular Detection of Japanese Encephalitis virus	Molecular Detection of Japanese Encephalitis Virus as documented in MKAK/BP/MOL/WI-10 and Polymerase Chain Reaction (PCR) Analysis for Virus- From Receiving to Disposal as documented in MKAK/BP/MOL/WP-01, Handling & Management of Positive Control and Negative Control in MKAK/BP/MOL/WP-02.
Blood, Serum	Detection of Measles IgM Antibody	Manufacturer Method/ Microplate Reader/ Enzyme Linked Immunosorbent Assay (ELISA) Technique as documented in MKAK/BP/SERO/WI-02.
	Detection of Rubella IgM Antibody	Manufacturer Method/ Microplate Reade / Enzyme Linked Immunosorbent Assay (ELISA) Technique as documented in MKAK/BP/SERO/WI-04.
Blood, Serum, Csf	Detection JE IgM Antibody	Manufacturer Method/Microplate Reader/ Enzyme Linked Immunosorbent Assay (ELISA) Technique as documented in MKAK/BP/SERO/WI-16.

Urine, Respiratory Specimen, Etc.	Virus Isolation of Measles Virus Isolation of Rubella	Virus Isolation and Identification of Measles and Rubella Virus as documented in MKAK/BP/VIRO/WI-07. Cell lines preparation follow Preparation of Media, Reagent and Antibiotic as documented in MKAK/BP/VIRO/WI-01, Quality Control Procedure for Mycoplasma Detection and Treatment of Infected Cell Lines as documented in MKAK/BP/VIRO/WI-02 and Preparation and Maintenance Procedure for Adherent Cell Lines as documented in MKAK/BP/VIRO/WI-04
Respiratory Specimen	Virus Isolation of Respiratory Viruses Respiratory Antigen Detection	Virus Isolation and Identification of Respiratory virus as documented in MKAK/BP/VIRO/WI-05. Cell lines preparation follow Preparation of Media, Reagent and Antibiotic as documented in MKAK/BP/VIRO/WI-01, Quality Control Procedure for Mycoplasma Detection and Treatment of Infected Cell Lines as documented in MKAK/BP/VIRO/WI-02 and Preparation and Maintenance Procedure for Adherent Cell Lines as documented in MKAK/BP/VIRO/WI-04
Blood, Serum, Cerebrospinal Fluid, Rectal Swab, Stool, Vesicle Swab/fluid, Throat Swab, Eye Swab, Pleural Fluid / Swab,tissue Biopsy, Etc.	Virus Isolation of Enterovirus	Virus Isolation and Identification of Enterovirus as documented in MKAK/BP/VIRO/WI-06. Cell lines preparation follow Preparation of Media, Reagent and Antibiotic as documented in MKAK/BP/VIRO/WI-01, Quality Control Procedure for Mycoplasma Detection and Treatment of Infected Cell Lines as documented in MKAK/BP/VIRO/WI-02 and Preparation and Maintenance Procedure for Adherent Cell Lines as documented in MKAK/BP/VIRO/WI-04

SCOPE OF MEDICAL TESTING : MEDICAL MICROBIOLOGY (PARASITOLOGY)

Specimen Tested	**Type of Test/ Properties Measured/**	**Test Methods,Specifications/ Equipment/Techniques Used**
Urine, Throat Swab, Nasopharyngeal Secretions, Csf, Organ Biopsy And Cell Culture.	Molecular Detection of Measles Virus	Molecular Detection of Measles Virus and Rubella Virus as documented in MKAK/BP/MOL/WI-03 and Polymerase Chain Reaction (PCR) Analysis for Virus - From Receiving to Disposal as documented in MKAK/BP/MOL/WP-01, Handling & Management of Positive Control and Negative Control in MKAK/BP/MOL/WP-02.
Urine, Throat Swab, Nasopharyngeal Secretions, Csf, Organ Biopsy And Cell Culture (rubella Test)	~~Molecular Detection of Rubella Virus~~ **(INOPERATIVE)**	~~Molecular Detection of Measles Virus and Rubella Virus as documented in MKAK/BP/MOL/WI-03 and Polymerase Chain Reaction (PCR) Analysis for Virus - From Receiving to Disposal as documented in MKAK/BP/MOL/WP-01, Handling & Management of Positive Control and Negative Control in MKAK/BP /MOL/WP-02.~~ **(INOPERATIVE)**
Throat Swab, Nasal Swab, Sputum, Nasopharyngeal Aspirates, Organ Biopsies, Bronchiol Alveolar Larvage, Throat Washing, Eye Swab, Endotracheal Tube And Cell Culture.	Molecular Detection of Influenza A and B Virus	Molecular Detection of Influenza A and B Virus as documented in MKAK/BP/MOL/WI-04 and Polymerase Chain Reaction (PCR) Analysis for Virus - From Receiving to Disposal as documented in MKAK/BP/MOL/WP-01, Handling & Management of Positive Control and Negative Control in MKAK/BP/MOL/WP-02.

Serum, Cerebrospinal Fluid, Organ Biopsy And Cell Culture	Molecular Detection of Dengue virus	Molecular Detection of Dengue Virus as documented in MKAK/BP/MOL/WI-05 and Polymerase Chain Reaction (PCR) Analysis for Virus- From Receiving to Disposal as documented in MKAK/BP/MOL/WP-01, Handling & Management of Positive Control and Negative Control in MKAK/BP/MOL/WP-02.
Vesicle Swab, Serum, Cerebrospinal Fluid, And Mouth Ulcer Swab	Molecular Detection of Varicella Zoster Virus	Molecular Detection of Varicella Zoster Virus as documented in MKAK/BP/MOL/WI-07 and Polymerase Chain Reaction (PCR) Analysis for Virus- From Receiving to Disposal as documented in MKAK/BP/MOL/WP-01, Handling & Management of Positive Control and Negative Control in MKAK/BP/MOL/WP-02.
Nasopharyngeal Swab, Oropharyngeal Swab, Combine Nasopharyngeal And Oropharyngeal Swab, Deep Throat Saliva (dts) Saliva	Real-Time RT-PCR Assay for Detection of SARS-CoV-2	Real-Time RT PCR Assay as documented in Real-time RT-PCR Assay for Detection of SARS-CoV-2 (MKAK/BP/MOL/WI-13) Polymerase Chain Reaction (PCR) Analysis fo Virus - From Receiving to Disposal as documented in MKAK/BP/MOL/WP-02, Handling & Management of Positive Control and Negative Control in MKAK/BP/MOL/WP-02.
Rectal Swab, Stool, Cerebrospinal Fluid, Serum, Throat Swab, Mouth Ulcer Swab Vesicle Swab, Ulcer Swab, Pleural Fluid, Organ Biopsy And Cell Culture.	Molecular Detection of Enterovirus	Molecular Detection of Enterovirus as documented in MKAK/BP/MOL/WI-08 and Polymerase Chain Reaction (PCR) Analysis for Virus- From Receiving to Disposal as documented in MKAK/BP/MOL/WP-01, Handling & Management of Positive Control and Negative Control in MKAK/BP/MOL/WP-02.

Cerebrospinal Fluid, Skin Lesions Swab, Vesicle Swab/fluid, Serum, Genital Swab And Mouth Ulcer Swab, Tissue Culture, Tissue Biopsy, Bronchoalveolar Lavage, Nasopharyngeal Aspirate, Tracheal Aspirate, Nasopharyngeal Swab, Rectal Swab, Eye Swab	Molecular Detection of Herpes Simplex Virus	Molecular Detection of Herpes Simplex Virus as documented in MKAK/BP/MOL/WI-09 and Polymerase Chain Reaction (PCR) Analysis for Virus- From Receiving to Disposal as documented in MKAK/BP/MOL/WP-01, Handling & Management of Positive Control and Negative Control in MKAK/BP/MOL/WP-02.
Serum And Cerebrospinal Fluid, Tissue Biopsy And Cell Culture Fluid	Molecular Detection of Japanese Encephalitis virus	Molecular Detection of Japanese Encephalitis Virus as documented in MKAK/BP/MOL/WI-10 and Polymerase Chain Reaction (PCR) Analysis for Virus- From Receiving to Disposal as documented in MKAK/BP/MOL/WP-01, Handling & Management of Positive Control and Negative Control in MKAK/BP/MOL/WP-02.
Blood, Serum	Detection of Measles IgM Antibody	Manufacturer Method/ Microplate Reader/ Enzyme Linked Immunosorbent Assay (ELISA) Technique as documented in MKAK/BP/SERO/WI-02.
	Detection of Rubella IgM Antibody	Manufacturer Method/ Microplate Reade / Enzyme Linked Immunosorbent Assay (ELISA) Technique as documented in MKAK/BP/SERO/WI-04.
Blood, Serum, Csf	Detection JE IgM Antibody	Manufacturer Method/Microplate Reader/ Enzyme Linked Immunosorbent Assay (ELISA) Technique as documented in MKAK/BP/SERO/WI-16.

Urine, Respiratory Specimen, Etc.	Virus Isolation of Measles Virus Isolation of Rubella	Virus Isolation and Identification of Measles and Rubella Virus as documented in MKAK/BP/VIRO/WI-07. Cell lines preparation follow Preparation of Media, Reagent and Antibiotic as documented in MKAK/BP/VIRO/WI-01, Quality Control Procedure for Mycoplasma Detection and Treatment of Infected Cell Lines as documented in MKAK/BP/VIRO/WI-02 and Preparation and Maintenance Procedure for Adherent Cell Lines as documented in MKAK/BP/VIRO/WI-04
Respiratory Specimen	Virus Isolation of Respiratory Viruses Respiratory Antigen Detection	Virus Isolation and Identification of Respiratory virus as documented in MKAK/BP/VIRO/WI-05. Cell lines preparation follow Preparation of Media, Reagent and Antibiotic as documented in MKAK/BP/VIRO/WI-01, Quality Control Procedure for Mycoplasma Detection and Treatment of Infected Cell Lines as documented in MKAK/BP/VIRO/WI-02 and Preparation and Maintenance Procedure for Adherent Cell Lines as documented in MKAK/BP/VIRO/WI-04
Blood, Serum, Cerebrospinal Fluid, Rectal Swab, Stool, Vesicle Swab/fluid, Throat Swab, Eye Swab, Pleural Fluid / Swab,tissue Biopsy, Etc.	Virus Isolation of Enterovirus	Virus Isolation and Identification of Enterovirus as documented in MKAK/BP/VIRO/WI-06. Cell lines preparation follow Preparation of Media, Reagent and Antibiotic as documented in MKAK/BP/VIRO/WI-01, Quality Control Procedure for Mycoplasma Detection and Treatment of Infected Cell Lines as documented in MKAK/BP/VIRO/WI-02 and Preparation and Maintenance Procedure for Adherent Cell Lines as documented in MKAK/BP/VIRO/WI-04

SCOPE OF MEDICAL TESTING : MEDICAL MICROBIOLOGY (VIROLOGY)

Specimen Tested	**Type of Test/ Properties Measured/**	**Test Methods,Specifications/ Equipment/Techniques Used**
Urine, Throat Swab, Nasopharyngeal Secretions, Csf, Organ Biopsy And Cell Culture.	Molecular Detection of Measles Virus	Molecular Detection of Measles Virus and Rubella Virus as documented in MKAK/BP/MOL/WI-03 and Polymerase Chain Reaction (PCR) Analysis for Virus - From Receiving to Disposal as documented in MKAK/BP/MOL/WP-01, Handling & Management of Positive Control and Negative Control in MKAK/BP/MOL/WP-02.
Urine, Throat Swab, Nasopharyngeal Secretions, Csf, Organ Biopsy And Cell Culture (rubella Test)	~~Molecular Detection of Rubella Virus~~ **(INOPERATIVE)**	~~Molecular Detection of Measles Virus and Rubella Virus as documented in MKAK/BP/MOL/WI-03 and Polymerase Chain Reaction (PCR) Analysis for Virus - From Receiving to Disposal as documented in MKAK/BP/MOL/WP-01, Handling & Management of Positive Control and Negative Control in MKAK/BP /MOL/WP-02.~~ **(INOPERATIVE)**
Throat Swab, Nasal Swab, Sputum, Nasopharyngeal Aspirates, Organ Biopsies, Bronchiol Alveolar Larvage, Throat Washing, Eye Swab, Endotracheal Tube And Cell Culture.	Molecular Detection of Influenza A and B Virus	Molecular Detection of Influenza A and B Virus as documented in MKAK/BP/MOL/WI-04 and Polymerase Chain Reaction (PCR) Analysis for Virus - From Receiving to Disposal as documented in MKAK/BP/MOL/WP-01, Handling & Management of Positive Control and Negative Control in MKAK/BP/MOL/WP-02.

Serum, Cerebrospinal Fluid, Organ Biopsy And Cell Culture	Molecular Detection of Dengue virus	Molecular Detection of Dengue Virus as documented in MKAK/BP/MOL/WI-05 and Polymerase Chain Reaction (PCR) Analysis for Virus- From Receiving to Disposal as documented in MKAK/BP/MOL/WP-01, Handling & Management of Positive Control and Negative Control in MKAK/BP/MOL/WP-02.
Vesicle Swab, Serum, Cerebrospinal Fluid, And Mouth Ulcer Swab	Molecular Detection of Varicella Zoster Virus	Molecular Detection of Varicella Zoster Virus as documented in MKAK/BP/MOL/WI-07 and Polymerase Chain Reaction (PCR) Analysis for Virus- From Receiving to Disposal as documented in MKAK/BP/MOL/WP-01, Handling & Management of Positive Control and Negative Control in MKAK/BP/MOL/WP-02.
Nasopharyngeal Swab, Oropharyngeal Swab, Combine Nasopharyngeal And Oropharyngeal Swab, Deep Throat Saliva (dts) Saliva	Real-Time RT-PCR Assay for Detection of SARS-CoV-2	Real-Time RT PCR Assay as documented in Real-time RT-PCR Assay for Detection of SARS-CoV-2 (MKAK/BP/MOL/WI-13) Polymerase Chain Reaction (PCR) Analysis fo Virus - From Receiving to Disposal as documented in MKAK/BP/MOL/WP-02, Handling & Management of Positive Control and Negative Control in MKAK/BP/MOL/WP-02.
Rectal Swab, Stool, Cerebrospinal Fluid, Serum, Throat Swab, Mouth Ulcer Swab Vesicle Swab, Ulcer Swab, Pleural Fluid, Organ Biopsy And Cell Culture.	Molecular Detection of Enterovirus	Molecular Detection of Enterovirus as documented in MKAK/BP/MOL/WI-08 and Polymerase Chain Reaction (PCR) Analysis for Virus- From Receiving to Disposal as documented in MKAK/BP/MOL/WP-01, Handling & Management of Positive Control and Negative Control in MKAK/BP/MOL/WP-02.

Cerebrospinal Fluid, Skin Lesions Swab, Vesicle Swab/fluid, Serum, Genital Swab And Mouth Ulcer Swab, Tissue Culture, Tissue Biopsy, Bronchoalveolar Lavage, Nasopharyngeal Aspirate, Tracheal Aspirate, Nasopharyngeal Swab, Rectal Swab, Eye Swab	Molecular Detection of Herpes Simplex Virus	Molecular Detection of Herpes Simplex Virus as documented in MKAK/BP/MOL/WI-09 and Polymerase Chain Reaction (PCR) Analysis for Virus- From Receiving to Disposal as documented in MKAK/BP/MOL/WP-01, Handling & Management of Positive Control and Negative Control in MKAK/BP/MOL/WP-02.
Serum And Cerebrospinal Fluid, Tissue Biopsy And Cell Culture Fluid	Molecular Detection of Japanese Encephalitis virus	Molecular Detection of Japanese Encephalitis Virus as documented in MKAK/BP/MOL/WI-10 and Polymerase Chain Reaction (PCR) Analysis for Virus- From Receiving to Disposal as documented in MKAK/BP/MOL/WP-01, Handling & Management of Positive Control and Negative Control in MKAK/BP/MOL/WP-02.
Blood, Serum	Detection of Measles IgM Antibody	Manufacturer Method/ Microplate Reader/ Enzyme Linked Immunosorbent Assay (ELISA) Technique as documented in MKAK/BP/SERO/WI-02.
	Detection of Rubella IgM Antibody	Manufacturer Method/ Microplate Reade / Enzyme Linked Immunosorbent Assay (ELISA) Technique as documented in MKAK/BP/SERO/WI-04.
Blood, Serum, Csf	Detection JE IgM Antibody	Manufacturer Method/Microplate Reader/ Enzyme Linked Immunosorbent Assay (ELISA) Technique as documented in MKAK/BP/SERO/WI-16.

Urine, Respiratory Specimen, Etc.	Virus Isolation of Measles Virus Isolation of Rubella	Virus Isolation and Identification of Measles and Rubella Virus as documented in MKAK/BP/VIRO/WI-07. Cell lines preparation follow Preparation of Media, Reagent and Antibiotic as documented in MKAK/BP/VIRO/WI-01, Quality Control Procedure for Mycoplasma Detection and Treatment of Infected Cell Lines as documented in MKAK/BP/VIRO/WI-02 and Preparation and Maintenance Procedure for Adherent Cell Lines as documented in MKAK/BP/VIRO/WI-04
Respiratory Specimen	Virus Isolation of Respiratory Viruses Respiratory Antigen Detection	Virus Isolation and Identification of Respiratory virus as documented in MKAK/BP/VIRO/WI-05. Cell lines preparation follow Preparation of Media, Reagent and Antibiotic as documented in MKAK/BP/VIRO/WI-01, Quality Control Procedure for Mycoplasma Detection and Treatment of Infected Cell Lines as documented in MKAK/BP/VIRO/WI-02 and Preparation and Maintenance Procedure for Adherent Cell Lines as documented in MKAK/BP/VIRO/WI-04
Blood, Serum, Cerebrospinal Fluid, Rectal Swab, Stool, Vesicle Swab/fluid, Throat Swab, Eye Swab, Pleural Fluid / Swab,tissue Biopsy, Etc.	Virus Isolation of Enterovirus	Virus Isolation and Identification of Enterovirus as documented in MKAK/BP/VIRO/WI-06. Cell lines preparation follow Preparation of Media, Reagent and Antibiotic as documented in MKAK/BP/VIRO/WI-01, Quality Control Procedure for Mycoplasma Detection and Treatment of Infected Cell Lines as documented in MKAK/BP/VIRO/WI-02 and Preparation and Maintenance Procedure for Adherent Cell Lines as documented in MKAK/BP/VIRO/WI-04

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