


Schedule

Issue date: 22 September 2024
Valid Until: 22 September 2029



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LABORATORY LOCATION: (PERMANENT LABORATORY) 	Jabatan Patologi, Hospital Kemaman Jalan Da' Omar, 24000 Chukai Kemaman, Terengganu. , 24000, TERENGGANU MALAYSIA
ACCREDITED SINCE :	22 SEPTEMBER 2024
FIELD(S) OF MEDICAL TESTING :	CHEMICAL PATHOLOGY MEDICAL MICROBIOLOGY HAEMATOLOGY

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 Communiqué, November 2021)

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CENTRAL LOCATION	Jabatan Patologi, Hospital Kemaman Jalan Da' Omar, 24000 Chukai Kemaman, Terengganu. , 24000, Terengganu
FIELD(S) OF MEDICAL TESTING :	CHEMICAL PATHOLOGY, MEDICAL MICROBIOLOGYHAEMATOLOGY

SCOPE OF MEDICAL TESTING : CHEMICAL PATHOLOGY

Specimen Tested	Type of Test/ Properties Measured/	Test Methods, Specifications/ Equipment/Techniques Used
Serum	FT3	Electrochemiluminescent(ECL) method as documented in HKWPAT/CP/AK03 Cobase411
	FT4	Electrochemiluminescent(ECL) method as documented in HKWPAT/CP/AK03 Cobase411
	TSH	Electrochemiluminescent(ECL) method as documented in HKM/PAT/CP/AK03 Cobase411
	Chloride	Indirect ISE method as documented in HKM/PAT/CP/AK02 (Pengendalian Chemistry Analyser Beckman Coulter DXC700AU)
	Potassium	Indirect ISE method as documented in HKM/PAT/CP/AK02 (Pengendalian Chemistry Analyser Beckman Coulter DXC700AU)
	Sodium	Indirect ISE method as documented in HKM/PAT/CP/AK02 (Pengendalian Chemistry Analyser Beckman Coulter DXC700AU)
	Glucose	Hexokinase method as documented in HKWPAT/CP/AK02 (Pengendalian Chemistry Analyser Beckman Coulter DXC700AU)

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Uric acid	Uricase PAP method as documented in HKM/PAT/CP/AK02 (Pengendalian Chemistry Analyser Beckman Coulter DXC700AU)
UIBC	Nitroso-PSAP method as documented in HKM/PAT/CP/AK02 (Pengendalian Chemistry Analyser Beckman Coulter DXC700AU)
Urea	GLDH, Kinetic Assay method as documented in HKM/PAT/CP/AK02 (Pengendalian Chemistry Analyser Beckman Coulter DXC700AU)
Triglyceride	GPO-POD method as documented in HKM/PAT/CP/AK02 (Pengendalian Chemistry Analyser Beckman Coulter DXC700AU)
Total protein	Biuret method as documented in HKM/PAT/CP/AK02 (Pengendalian Chemistry Analyser Beckman Coulter DXC700AU)
Magnesium	Xylidyl Blue method as documented in HKM/PAT/CP/AK02 (Pengendalian Chemistry Analyser)
Lactate dehydrogenase (LDH)	IFCC method as documented in HKM/PAT/CP/AK02 (Pengendalian Chemistry Analyser Beckman Coulter DXC700AU)
Iron	TPTZ method as documented in HKM/PAT/CP/AK02 (Pengendalian Chemistry Analyser Beckman Coulter DXC700AU)
Inorganic Phosphorus (Phosphate)	Phosphomolybdate Complex method as documented in HKM/PAT/CP/AK02 (Pengendalian Chemistry Analyser Beckman Coulter DXC700AU)

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HDL cholesterol	Enzymatic Immunoinhibition method as documented in HKM/PAT/CP/AK02 (Pengendalian Chemistry Analyser Beckman Coulter DXC700AU)
Direct bilirubin	DPD method as documented in HKM/PAT/CP/AK02 (Pengendalian Chemistry Analyser Beckman Coulter DXC700AU)
Creatinine	Modified Jaffe, Kinetic method as documented in HKM/PAT/CP/AK02 (Pengendalian Chemistry Analyser Beckman Coulter DXC700AU)
Creatine kinase (CK)	IFCC method as documented in HKM/PAT/CP/AK02 (Pengendalian Chemistry Analyser Beckman Coulter DXC700AU)
Cholesterol	CHO-POD method as documented in HKM/PAT/CP/AK02 (Pengendalian Chemistry Analyser Beckman Coulter DXC700AU)
Calcium	Arsenazo method as documented in HKM/PAT/CP/AK02 (Pengendalian Chemistry Analyser Beckman Coulter DXC700AU)
AST	IFCC method as documented in HKM/PAT/CP/AK02 (Pengendalian Chemistry Analyser Beckman Coulter DXC700AU)
Amylase	G7PNP (IFCC) method as documented in HKM/PAT/CP/AK02 (Pengendalian Chemistry Analyser Beckman Coulter DXC700AU)
ALT	IFCC method as documented in HKM/PAT/CP/AK02 (Pengendalian Chemistry Analyser Beckman Coulter DXC700AU)
Alkaline phosphatase (ALP)	IFCC method as documented in HKM/PAT/CP/AK02 (Pengendalian Chemistry Analyser Beckman Coulter DXC700AU)

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	Albumin	BromocresolGreen(BCG)Method as documented in HKM/PAT/CP/AK02 (Pengendalian Chemistry Analyser Beckman Coulter DXC700AU)
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SCOPE OF MEDICAL TESTING : MEDICAL MICROBIOLOGY

Specimen Tested	Type of Test/ Properties Measured/	Test Methods, Specifications/ Equipment/Techniques Used
Bacteriology Blood	Microscopy	Direct examination As documented in HKM/PAT/MWAK25
	Culture	Fluorescent Technology/BD Bactec FX as documented in HKM/PAT/MM/AK01
Urine	Microscopy	HKM/PAT/MM/AK26
	Microscopy	Examination of Uncentrifuged Urine using Kova Slide As documented in
	Culture	HKM/PAT/MM/AK02
	Culture	Semi Quantitative Using Calibrated Loop As documented in
Body Fluid	Microscopy	Direct examination As documented in HKM/PAT/MM/AK25
	Culture	Routine Culture As documented in HKM/PAT/MM/AK03
Cerebrospinal Fluid	Microscopy	Differential Cell Count As documented in HKM/PAT/MM/AK27
	Culture	Routine Culture As documented in HKM/PAT/MM/AK04
	Microscopy	Direct examination As documented in HKM/PAT/MWAK25
Respiratory	Microscopy	Direct examination- Measure the quality of sputum specimen using Bartlett Score
	Culture	Routine Culture As documented in I-IKM/PAT/MWAK05
Ett	Culture	Routine Culture As documented in HKM/PAT/MM/AK06

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Genital Swabs	Culture	Routine Culture Plus for Neisseria and Yeast As documented in HKM/PAT/MM/AK007
Pus, Tissue & Bone	Microscopy	Direct examination As documented in HKM/PAT/MM/AK25
	Culture	Routine Culture As documented in HKM/PAT/MM/AK09
Antibiotic Sensitivity Testing (ast)	Automated	AST via Vitex 2 compact As documented in HKM/PAT/MM/AK29
	Culture	Disc Diffusion/MIC (Etest As documented in HKM/PAT/MWAK28
Mycobacterium Sputum	Acid Fast Bacilli (AFB) smear	Examination of AFB Smear using LED Microscope (Fluorescent method) As documented in HKM/PAT/MWAK95
Serology Serum	Rapid Plasma Reagin (RPR)	Macroscopic flocculation As documented in HKM/PAT/SR/AK04
	Leptospirosis rapid test	Latex agglutination As documented in HKM/PAT/SR/AK02

SCOPE OF MEDICAL TESTING : HAEMATOLOGY

Specimen Tested	Type of Test/ Properties Measured/	Test Methods, Specifications/ Equipment/Techniques Used
Immuno-haematology whole Blood	Direct Antiglobulin Test	Documented in HKM/PAT/TM/AK11 (Ujian Coomb's Kaedah Kad Gel)
	Direct Antiglobulin Test	Gel card method (Antigen-antibody reaction)
	Crossmatch	Gel card method (Antigen-antibody reaction) Tube method (Immediate spin)
	Crossmatch	Documented in HKM/PAT/TM/AK08 (Ujian Keserasian Darah)
	RBC Phenotyping	Documented in HKM/PAT/TM/AK07 (Ujian Fenotip Sel Darah Merah)
	RBC Phenotyping	Test tube method/ Gel card method (Antigen-antibody reaction)

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	Antibody Identification	Documented in HKWPAT/TM/AK06 (Ujian Identifikasi Antibodi Kaedah Kad Gel)
	Antibody Identification	Gel card method (Antigen-antibody reaction)
	Antibody Screening (Indirect Coomb's Test)	Documented in HKM/PAT/TM/AK04 (Ujian Saringan Antibodi Kaedah Kad Gel)
	Antibody Screening (Indirect Coomb's Test)	Gel card method (Antigen-antibody reaction)
	ABO & Rh D Grouping	Test tube method / Gel card method
Haematology Whole Blood	Erythrocytes Sedimentation Rate (ESR)	Automated system for direct measurement of ESR (the rate that erythrocyte settle in human plasma over a specified time period)
	Full Blood Picture (FBP)	Slides: Manual staining method using Leishman stain
	Full Blood Picture (FBP)	Documented in HKM/PATH/HM/AK06 Full Blood Picture
	Full Blood Count & Reticulocyte	Combination of fluorescent flow cytometry using a semi-conductor laser and hydrodynamic focusing in dedicated channels. All methods as documented in: -HKM/PAT/HM/AK01 (Pengendalian Full Blood Count Analyser - "Sysmex XN1000") and -HKM/PAT/HM/AK02 (Pengendalian Full Blood Count Analyser - "Sysmex XN550")
Plasma	APTT	Documented in HKM/PAT/HM/AK03 (Pengendalian Coagulation Analyser - "ACL TOP 350 CTS")
	PT	Clot detection method.
Dried Blood Spot On Whatman Filter Paper	G6PD	Enzymatic method for the qualitative determination of G6PD activity in dried bloodspots
	G6PD	Documented in HKM/PATH/HM/AK05 (Pengendalian Ujian Saringan G6PD)

NOTE :