



STANDARDS
MALAYSIA

Certificate of Accreditation

No: SAMM 391

Accredited since: 10 April 2008

This is to certify that

VETERINARY LABORATORY SERVICES UNIT
FACULTY OF VETERINARY MEDICINE
UNIVERSITI PUTRA MALAYSIA
SERDANG, SELANGOR
MALAYSIA



Scan this QR Code or visit
www.jsm.gov.my/cab-directories
for the current scope of accreditation

has been granted accreditation in respect of the scope of accreditation described in the schedule, subject to the terms and conditions governing the *Skim Akreditasi Makmal Malaysia* (SAMM), the Laboratory Accreditation Scheme of Malaysia.

Laboratories accredited under SAMM meet the requirements of MS ISO/IEC 17025. This Malaysian Standard is identical with ISO/IEC 17025 published by the International Organization for Standardization (ISO).




(SHAHARUL SADRI BIN ALWI)
Director General
Department of Standards Malaysia

Date of issue: 2 September 2020

Schedule

Issue date: 4 April 2023
Valid until: 10 April 2028

NO: SAMM 391

Page: 1 of 6

LABORATORY LOCATION:
(PERMANENT LABORATORY)



**VETERINARY LABORATORY SERVICES UNIT
FACULTY OF VETERINARY MEDICINE
UNIVERSITY PUTRA MALAYSIA
43400 SERDANG
SELANGOR
MALAYSIA**

FIELD OF TESTING: VETERINARY
FIELD OF CALIBRATION: VOLUME

This laboratory has demonstrated its technical competence to operate in accordance with MS ISO/IEC 17025:2017 (ISO/IEC 17025:2017).

This laboratory's fulfillment of the requirements of ISO/IEC 17025 means the laboratory meets both the technical competence requirements and management system requirements that are necessary for it to consistently deliver technically valid test results and calibrations. The management system requirements in ISO/IEC 17025 are written in language relevant to laboratory operations and operate generally in accordance with the principles of ISO 9001 (see Joint ISO-ILAC-IAF Communiqué dated April 2017).

SCOPE OF TESTING: VETERINARY
LOCATION: BACTERIOLOGY LABORATORY

| Materials/ Products Tested | Type of Test/ Properties Measured/ Range of Measurement | Standard Test Methods/ Equipment/Techniques |
|---|---|---|
| Bacteriology Animal tissues and clinical specimens: swab sample, body fluid, discharges, milk | Isolation of bacteria from clinical specimens and environmental samples | Diagnostic Manual of Veterinary Clinical Bacteriology and Mycology (2008) - TM001 |
| | Identification of <i>Streptococcus pyogenes</i> | Diagnostic Manual of Veterinary Clinical Bacteriology and Mycology (2008) - TM002 |
| | Identification of <i>Staphylococcus aureus</i> | Diagnostic Manual of Veterinary Clinical Bacteriology and Mycology (2008) - TM003 |
| | Identification of <i>Pasteurella multocida</i> | Diagnostic Manual of Veterinary Clinical Bacteriology and Mycology (2008) - TM004 |
| | Identification of <i>Pseudomonas aeruginosa</i> | Diagnostic Manual of Veterinary Clinical Bacteriology and Mycology (2008) - TM005 |
| | Identification of <i>Escherichia coli</i> | Diagnostic Manual of Veterinary Clinical Bacteriology and Mycology (2008) - TM006 |
| Environmental samples | | |

Scan this QR Code or visit www.ism.gov.my/cab-directories for the current scope of accreditation

Schedule

Issue date: 4 April 2023
Valid until: 10 April 2028

NO: SAMM 391

Page: 2 of 6

| | | |
|--|--|---|
| Bacteriology (continued) Bacterial isolates | Antibiotic Susceptibility Test | CLSI Vet 01-S2 & Vet 01-A4 (2013) - TM007 |
| Serology Serum (cattle, dogs, rats, pigs) | Microscopic agglutination test for leptospirosis | In-house method - TM008 Based on WOAH (OIE) Terrestrial Manual 2021, Chapter 3.1.12 Leptospirosis |

Note:

Diagnostic Manual of Veterinary Clinical Bacteriology and Mycology CLSI : Diagnostic Manual of Veterinary Clinical Bacteriology and Mycology, S.S. Jang, E.L. Biberstein and D. C. Hirsh, University of California Davis, 2008.

WOAH (OIE) : Clinical and Laboratory Standards Institute - Performance Standards for Antimicrobial Disk and Dilution Susceptibility Tests for Bacteria Isolated from Animals: VET 01-A4, Approved Standards- Fourth Edition, 2013 and VET 01-S2, Second Information Supplement, 2013.
World Organisation of Animal Health, 2021

Signatories:

- | | |
|---|---------------------------|
| 1. Prof. Dr. Saleha Abdul Aziz | MVC Part I No 1194 |
| 2. Prof. Dr. Latiffah Hassan | MVC Part 1 No 470 |
| 3. Assoc. Prof. Dr. Siti Khairani Bejo | MVC Part 1 No 407 |
| 4. Prof. Dr. Zunita Zakaria | |
| 5. Dr. Nur Indah Ahmad | MVC Part 1 No 1154 |
| 6. Dr. Sharina binti Omar | MVC Part 1 No 1152 |

Schedule

Issue date: 4 April 2023
Valid until: 10 April 2028

NO: SAMM 391

Page: 3 of 6

SCOPE OF TESTING: VETERINARY

LOCATION: HISTOPATHOLOGY LABORATORY

| Materials/ Products Tested | Type of Test/ Properties Measured/ Range of Measurement | Standard Test Methods/ Equipment/Techniques |
|---|---|--|
| Histopathology Tissue samples from any animal species | Tissue processing Harris' Hematoxylin and Eosin Staining Fungi (Periodic Acid Schiff) Staining Van Gieson's Staining | Manual of Histologic Staining Methods of the Armed Forces Institute of Pathology - TM101 3 rd Edition 1968 Manual of Histologic Staining Methods of the Armed Forces Institute of Pathology - TM102 3 rd Edition 1968 Manual of Histologic Staining Methods of the Armed Forces Institute of Pathology - TM103 3 rd Edition 1968 Manual of Histologic Staining Methods of the Armed Forces Institute of Pathology - TM104 3 rd Edition 1968 |

Signatories:

- | | |
|--|--------------------|
| 1. Prof. Dr. Mohd Hair Bejo | MVC Part 1 No 207 |
| 2. Assoc Prof. Dr. Md. Sabri Mohd Yusoff | MVC Part 1 No 527 |
| 3. Assoc Prof. Dr. Annas Salleh | MVC Part 1 No 1407 |
| 4. Dr. Muhamad Alif Zakaria | MVC Part 1 No 1760 |
| 5. Dr. Mazlina Mazlan | MVC Part 1 No 1020 |
| 6. Dr. Nur Fazila Saulol Hamid | MVC Part 1 No 1368 |

Schedule

Issue date: 4 April 2023
Valid until: 10 April 2028

NO: SAMM 391

Page: 4 of 6

SCOPE OF TESTING: VETERINARY

LOCATION: PARASITOLOGY LABORATORY

| Materials/ Products Tested | Type of Test/ Properties Measured/ Range of Measurement | Standard Test Methods/ Equipment/Techniques |
|-----------------------------------|---|--|
| Parasitology Faeces | Modified McMaster Technique | Parasitology Reference Manual I (PRM I): Laboratory Manual in Parasitology. (1999) Parasitology Reference Manual II (PRM IIA): Veterinary Clinical Parasitology. Anne M. Zajac and Gary A. Conboy (7th Ed.) (2006) Parasitology Reference Manual III (PRM IIB): Poster – Investigatio Coprologica animalium domesticorum magnorum/ bos et ovis (Janssen Pharmaceutica, 1973) (in Parasitology Laboratory) Parasitology Reference Manual IV (PRM IIC): Veterinary Parasitology. MA Taylor, Coop & R.L Wall (3rd Ed.) (2007) Parasitology Reference Manual V (PRM IID): The Epidemiology, Diagnosis and Control of Helminth Parasites of Ruminants (Jørgen Hansen & Brian Perry, 1994) |

Scan this QR Code or visit www.ism.gov.my/cab-directories for the current scope of accreditation

Signatories:

1. Dr. Reuben Sunil Kumar Sharma
2. Dr. Nur Mahiza Md. Isa
3. Dr. Nor Azlina Abdul Aziz

MVC Part 1 No 664
MVC Part 1 No 1144
MVC Part 1 No 1222

Schedule

Issue date: 4 April 2023
Valid until: 10 April 2028

NO: SAMP 391

Page: 5 of 6

SCOPE OF TESTING: VETERINARY

LOCATION: CLINICAL PATHOLOGY

| Materials/ Products Tested | Type of Test/ Properties Measured/ Range of Measurement | Standard Test Methods/ Equipment/Techniques |
|--|---|---|
| Clinical Biochemistry (serum, plasma) | Albumin (ALB) Alanine Aminotransferase (ALT) Alkaline Phosphatase (ALP) Amylase (AMY) Aspartate Aminotransferase (AST) Bilirubin Direct (BIL-D) Bilirubin Total (BIL-T) Calcium (CA) Cholesterol (CHOL) Creatine Kinase (CK) Creatinine (CREA) Gamma-glutamyl transferase GGT Glucose (GLU) Phosphate (PHOS) Total Protein (TP) Urea | Determination of Analytes Concentration using the Automated Chemistry Analyser: Biolis 24i Premium |
| | Electrolytes: <ul style="list-style-type: none">• Sodium (NA)• Potassium (K)• Chloride (CL) | Determination of Electrolyte Concentration using the Clinical Chemistry System: Dimension Xpand Plus |

Signatories:

1. Prof. Dr. Rasadee Abdullah
2. Assoc Prof. Dr. Hazilawati binti Hamzah
3. Dr. Azalea Hani Othman
4. Daarulmuqaamah binti Masaud
5. Noraain binti Azman

MVC Part 1 No 586
MVC Part 1 No 1312

Schedule

Issue date: 4 April 2023
Valid until: 10 April 2028

NO: SAMM 391

Page: 6 of 6

* The uncertainty covered by the CMC is expressed as the expanded uncertainty corresponding to a coverage probability of approximately 95 % and have a coverage factor of $k=2$ unless stated otherwise.

SCOPE OF CALIBRATION: VOLUME

| Instrument calibrated/ Measurement parameter | Range | Calibration and Measurement Capability expressed as an uncertainty (\pm)* | Remarks ** |
|--|---|--|---|
| Piston – operated Volumetric apparatus including Mirco Pipette | *2 μl to 10 μl 10 μ l to 20 μ l 20 μ l to 50 μ l 50 μ l to 100 μ l 100 μ l to 500 μ l 500 μ l to 1000 μ l | 0.06 μl 0.06 μ l 0.09 μ l 0.2 μ l 1.2 μ l 1.5 μ l | Gravimetric Method based on ISO 8655-6:2002 |

*Temporary inoperative

Signatories:

1. Nur Izzati binti Azahari
2. Rosmaria binti Othman

Scan this QR Code or visit www.ism.gov.my/cab-directories for the current scope of accreditation