



STANDARDS
MALAYSIA

Certificate of Accreditation

No: SAMM 1084

Accredited since: 5 October 2022

This is to certify that

APICAL SCIENTIFIC SDN. BHD.
SERI KEMBANGAN, SELANGOR
MALAYSIA

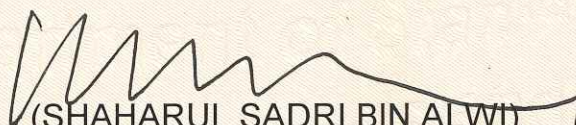


Scan this QR Code or visit
www.ism.gov.my/cab-directories
for the current scope of accreditation

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

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LABORATORY LOCATION:
(PERMANENT LABORATORY)

APICAL SCIENTIFIC SDN. BHD.
NO. 7-1, 7-2 AND 9-1, JALAN SP 2/7
TAMAN SERDANG PERDANA, SEKSYEN 2
43300 SERI KEMBANGAN
MALAYSIA

FIELD(S) OF TESTING: NUCLEIC ACID

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: NUCLEIC ACID

Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques
DNA Sample provided by the customers	DNA Sequencing	In-house method ASL-SOP-SEQ-01 to ASL-SOP-SEQ-09 based on Sanger DNA Sequencing by using Capillary Electrophoresis.
	Microsatellite Analysis	In-house method ASL-SOP-FAS-01 to ASL-SOP-FAS-05 based on DNA Fragment Analysis by using Capillary Electrophoresis.
Human Cell Line provided by the customers in the form of: <ul style="list-style-type: none"> - Genomic DNA - Cell Culture 	Human Cell Line Authentication	<p>In-house method ASL-SOP-CLA-DNA based on STR-based method.</p> <p>In-house method ASL-SOP-CLA-Cell Pellet based on GeneAII® Exgene™ DNA Purification Handbook and STR-based method.</p> <p>In-house method ASL-SOP-CLA-FTA based on Macherey-Nagel™ NucleoSpin™ Tissue User Manual and STR-based method.</p>

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Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques
Genomic DNA provided by the customers	Amplicon Metagenomic Next-Generation Sequencing	In-house method ASL-SOP-NGS-01 to ASL-SOP-NGS-13 based on Illumina 16S Metagenomic Sequencing Library Preparation.
Bacterial Sample provided by the customers in the form of: <ul style="list-style-type: none"> - Genomic DNA - Microbial Culture 	DNA Barcoding of Bacteria	In-house method ASL-SOP-DBC-Bacterial based on "Current protocols in molecular biology" refer Supplement 42, "Preparation of Genomic DNA from Mammalian Tissue" PubMed: 2001-v133n1, Dec. 2020; ISSN: 1934-3639; and Geneaid Presto™ Mini gDNA Bacteria Kit.
Fungal Sample provided by the customers in the form of: <ul style="list-style-type: none"> - Genomic DNA - Microbial Culture 	DNA Barcoding of Fungus	In-house method ASL-SOP-DBC-Fungal based on "Current protocols in molecular biology" refer Supplement 42, "Preparation of Genomic DNA from Mammalian Tissue" PubMed: 2001-v133n1, Dec. 2020; ISSN: 1934-3639; and Geneaid Presto™ Mini gDNA Yeast Kit.

Signatories:

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3. Tan Jo Ling
4. Lim Soon Hong
5. Muhammad Hafizh Bin Shafie Patt