

NO: SAMM 582

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|                                                                                   |                                                                                          |
|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|
| <b>LABORATORY LOCATION/<br/>CENTRAL OFFICE:</b>                                   | Institute of Bioscience, UPM<br>43400 Serdang, Selangor , 43400,<br>SELANGOR<br>MALAYSIA |
|  |                                                                                          |
| <b>ACCREDITED SINCE :</b>                                                         | 12 MARCH 2025                                                                            |
| <b>FIELD(S) OF TESTING:</b>                                                       | BIOLOGICAL (MICROSCOPY UNIT)<br>CHEMICAL (MICROSCOPY UNIT)                               |

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).

|                              |                                                                              |
|------------------------------|------------------------------------------------------------------------------|
| <b>CENTRAL LOCATION:</b>     | Institute of Bioscience, UPM<br>43400 Serdang, Selangor , 43400,<br>Selangor |
| <b>FIELD(S) OF TESTING :</b> | BIOLOGICAL, CHEMICAL                                                         |

**SCOPE OF TESTING : BIOLOGICAL (MICROSCOPY UNIT)**

| Material / Product Tested | Type Of Test / Properties Measured / Range Of Measurement | Standard Test Methods / Equipment / Techniques                                 |
|---------------------------|-----------------------------------------------------------|--------------------------------------------------------------------------------|
| Animal Tissue             | Morphological Study                                       | In-house method, UPM/IBS/TM1<br>Morphological Study of Animal Tissue using SEM |
|                           | Ultrastructural Study                                     | In-house method, UPM/IBS/TM2<br>Ultrastructural Study of Animal Tissue         |
| Plant Tissue              | Morphological Study                                       | In-house method, UPM/IBS/TM3<br>Morphological Study of Plant Tissue using SEM  |
|                           | Ultrastructural Study                                     | In-house method, UPM/IBS/TM4<br>Ultrastructural Study of Plant Tissue          |

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| Material / Product Tested | Type Of Test / Properties Measured / Range Of Measurement | Standard Test Methods / Equipment / Techniques                                   |
|---------------------------|-----------------------------------------------------------|----------------------------------------------------------------------------------|
| Cell Suspension           | Morphological Study                                       | In-house method, UPM/IBS/TM5<br>Morphological Study of Cell Suspension using SEM |
|                           | Ultrastructural Study                                     | In-house method, UPM/IBS/TM6<br>Ultrastructural Study of Cell Suspension         |
| Fungi                     | Morphological Study                                       | In-house method, UPM/IBS/TM7<br>Morphological Study of Fungi using SEM           |
|                           | Ultrastructural Study                                     | In-house method, UPM/IBS/TM8<br>Ultrastructural Study of Fungi                   |

**SCOPE OF TESTING : CHEMICAL (MICROSCOPY UNIT)**

| Material / Product Tested                                           | Type Of Test / Properties Measured / Range Of Measurement | Standard Test Methods / Equipment / Techniques                                                           |
|---------------------------------------------------------------------|-----------------------------------------------------------|----------------------------------------------------------------------------------------------------------|
| <b>all Type Of Materials / Products</b><br>Solid, Powder And Liquid | Elemental analysis (qualitative)                          | In-house method, UPM/IBS/TM10<br>based on Link ISIS Operator's Guide, Rev. 3.2 volume 1, 2 & 3 using EDX |