Issue date: 30 October 2024
Valid Until: 02 November 2025

NO: SAMM 154
(Issue 1, 30 October 2024 replacement
of SAMM 154 dated 30 October 2024)

LABORATORY LOCATION/ CENTRAL OFFICE:	Chemical Testing Laboratory, FRIM Forest Research Institute Malaysia (FRIM) 52109 Kepong, Selangor , 52109, SELANGOR MALAYSIA
ACCREDITED SINCE :	24 MARCH 2025
SITE:	
1 . SITE LABORATORY(HQ) :	WOOD PRESERVATIVE ANALYTICAL LABORATORY (MAAK)
FIELD(S) OF TESTING :	CHEMICAL
2 . SITE LABORATORY(HQ) :	WOOD COMPOSITE TESTING LABORATORY (WCTL)
FIELD(S) OF TESTING :	CHEMICAL
3 . SITE LABORATORY(HQ) :	NATURAL PRODUCT QUALITY CONTROL LABORATORY (NPQC)
FIELD(S) OF TESTING :	CHEMICAL
4 . SITE LABORATORY(HQ) :	SOIL CHEMISTRY LABORATORY (MKT)
FIELD(S) OF TESTING :	CHEMICAL
5 . SITE LABORATORY(HQ) :	PHYTOCHEMICAL LABORATORY (FK)
FIELD(S) OF TESTING :	CHEMICAL

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).

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SITE LOCATION (HQ)	1. WOOD PRESERVATIVE ANALYTICAL LABORATORY (MAAK)
FIELD(S) OF TESTING :	CHEMICAL

SCOPE OF TESTING : CHEMICAL

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
Preservative Solution And Preservative Treated Wood	Determination of Copper, Chrome, and Arsenic Content	MS 821:2011
	Determination of Boron	MS 2371-3:2010
Wood Based Sample	Determination of Moisture Content	MS 837:2006
Solid Wood	Determination of Density	ISO 13061-2
Preservative Treated Wood	Penetration test of wood treated with CCA preservatives	MS 833:2014 Clause 5.4.3.1.3

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SITE LOCATION (HQ)	2. WOOD COMPOSITE TESTING LABORATORY (WCTL)
FIELD(S) OF TESTING :	CHEMICAL

SCOPE OF TESTING : CHEMICAL

Material / Product Tested	**Type Of Test / Properties Measured / Range Of Measurement**	**Standard Test Methods / Equipment / Techniques**
Building Board	Determination of Formaldehyde Emission by Desiccator Method	JIS A 1460:2015
Wood Based Panels	Determination of Formaldehyde release – Extraction method (called the perforator method) Determination of Moisture Content Determination of formaldehyde release - Desiccator method	ISO 12460-5:2015 ISO 16979:2003 ISO 12460-4:2016
Plywood	Determination of Formaldehyde Emission by Desiccator Method	JAS for Plywood: 2018 MAFF Notification No. 683 Appendix 3(5) Plywood Certification Standard MTIB-CB-PS-01: 05/2013 (Rev.6) Appendix D
	Determination of Moisture Content	Plywood Certification Standard MTIB-CB-PS-01: 05/2013 (Rev.6) Appendix A JAS for Plywood:2018 MAFF Notification No. 683 Appendix 3(4)
Wood Products	Formaldehyde Concentration in Air and Emission Rates from Wood Products using a Large Chamber Standard test method for determining formaldehyde concentration in air from wood products using a small-scale chamber*	ASTM E 1333-14 EPA TSCA Title VI Part 770 ASTM D 6007-14 EPA TSCA Title VI Part 770

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SITE LOCATION (HQ)	3. NATURAL PRODUCT QUALITY CONTROL LABORATORY (NPQC)
FIELD(S) OF TESTING :	CHEMICAL

SCOPE OF TESTING : CHEMICAL

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
Plant & Herbal Products I. Plant & Herbal Raw Materials Ii. Plant & Herbal Semi Finished Products Iii. Plant & Herbal Finished Products Iv. Herbal Medicinal Products	Determination of: i. Cadmium (Cd) ii. Lead (Pb) iii. Mercury (Hg) iv. Arsenic (As)	In-house method AK.PPH.52; based on BS EN 14084:2003 In-house method AK.PPH.51; based on BS EN 14084:2003 and Perkin Elmer Recommended Analytical Conditions In-house method AK.PPH.59; based on BS EN 14084:2003

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SITE LOCATION (HQ)	4. SOIL CHEMISTRY LABORATORY (MKT)
FIELD(S) OF TESTING :	CHEMICAL

SCOPE OF TESTING : CHEMICAL

Material / Product Tested	**Type Of Test / Properties Measured / Range Of Measurement**	**Standard Test Methods / Equipment / Techniques**
Plant Tissue And Plant -“ Based Material (compost)	Determination of Potassium (K)	In house test method AKA 22 for determination of potassium in plant tissue and plant-based material based on EPA 3051A (ICP)

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SITE LOCATION (HQ)	5. PHYTOCHEMICAL LABORATORY (FK)
FIELD(S) OF TESTING :	CHEMICAL

SCOPE OF TESTING : CHEMICAL

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
Plant Raw Material/ Semi Finished	Identification of Tongkat Ali root (Eurycoma longifolia) by HPLC analysis	In house test method (AKA-S15)/ High –Performance Chromatography Liquid (HPLC) using Phenomenex- Luna C18 column