


NO: SAMM 174(Issue 2, 20 August 2025 replacement
of SAMM 174 dated 20 August 2025)

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LABORATORY LOCATION/ CENTRAL OFFICE:	Chemistry Laboratory, Agriculture Research Centre, DOA KM 20, Borneo Heights Road, 93250 Kuching, Sarawak , 93250, SARAWAK MALAYSIA
	
ACCREDITED SINCE :	20 AUGUST 2025
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).

CENTRAL LOCATION:	Chemistry Laboratory, Agriculture Research Centre, DOA KM 20, Borneo Heights Road, 93250 Kuching, Sarawak , 93250, Sarawak
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
Soil	pH	MS 2457:2012
	Conductivity	MS 678:Part VI : 1980 (Ref. No.: S3)
	Exchangeable Cations (Ca, Mg, K, Na)	In-house Method (Ref.No.: S8) based-on MS 678: Part IV:1980 and ICP-OES.
	Cation Exchange Capacity	In-house Method (Ref. No.: S9) based on MS 678: Part V:1980 In-house STM S42: Cation ExchangeCapacity (CEC) based-on MS 678 Part V:1980 and discrete auto- analyser.

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Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	Available phosphorus	In-house Method (Ref. No: S11) based on Bray & Kurtz, 1945 and ICP-OES
	Total Nitrogen Range - 0 to 10 percent Nitrogen	In-house method (Ref.No:S19) Soil Nitrogen based on LECO Dumas Combustion Method.
	Total Organic Carbon (TOC) Range – 0 to 50 percent	In-house method (Ref S18) based on LECO Dumas Combustion Method
Plant	Total P, K, Ca, Mg, Fe, Mn, Cu, Zn, B	In-house Method (Ref. No.:P3) based on MS 677:Part IV to Part VII:1980 and ICP-OES
	Total Nitrogen Range – 0 to 10 percent Nitrogen	In-house method (Ref. No.: P7) Plant Nitrogen based on LECO Dumas Combustion Method and AOAC 990.03 (AOAC Official Method 1995)
Fertilizer	Total P2O5	In-house Method (Ref. No. F3) based on AOAC Official Methods 957.02 and ICP-OES
	Total K2O	In-house Method (Ref. No. F5) based on AOAC Official Methods 984.01 (AOAC Official Method1995) and ICP-OES
	Total MgO	In-house Method (Ref. No. F7) based on AOAC Official Methods 984.01 (AOAC Official Method1995) and ICP-OES.
	Total Nitrogen Range – 0 to 20 percent Nitrogen	In-house Method (Ref. No. F9) Nitrogen in Fertiliser based on LECO Dumas Combustion and AOAC Official Methods 993.13 (AOAC Official Method 1995).
	Type of test: Total nitrogen (N) in urea fertilizer Properties measured: Nitrogen Range of measurement: 0 - 46%	In-house method (Ref. No. F41): Near infrared-reflectance spectroscopy (NIRS)
Food And Food Materials	Protein	In-house method (Ref. FD3) based on LECO Dumas Combustionand AOAC Official Methods 993.13 (AOAC Official Method 1995)
	Ash Content	In-house method (Ref. No.: FD4) based on Pearson's Chemical Analysis of Food 8 th. Edition Page 11.

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Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	Fat	In-house method (Ref. No.: FD6) based on AOAC Official Method 930.09 and FOSS TECATOR Application Note AN 301
Agriculture Produce-fruit And Vegetable	Type of test: Pesticide residue analysis in vegetable and fruit samples Properties measured: Organophosphorus (OP) compounds-acephate, chlorpyrifos, diazinon, dimethoate, malathion, methamidophos, parathionmethyl, phenthoate, profenofos, triazophos Range of measurement: > 0.01 mg/kg	In-house method PRTM1: Gas chromatography - Flame photometric detector (GC-FPD)

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