


NO: SAMM 1102

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LABORATORY LOCATION/ CENTRAL OFFICE:	IOI Research Centre (Analytical Laboratory), IOI Plantation Sdn. Bhd. 2 KM Jalan Gemencheh-Batang Melaka 73200 Gemencheh, Negeri Sembilan , 73200, NEGERI SEMBILAN MALAYSIA
	
ACCREDITED SINCE :	18 MARCH 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:	IOI Research Centre (Analytical Laboratory), IOI Plantation Sdn. Bhd. 2 KM Jalan Gemencheh-Batang Melaka 73200 Gemencheh, Negeri Sembilan , 73200, Negeri Sembilan
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
Agricultural Products And Materials Fertilizers And Liming Materials Straight Fertilizer	Moisture	MS 417: Part 2 :1994 (Oven Drying Method) In-House Method, Ref. No. F1, Based on MS 417: Part 2 : 1994 (Vacuum Desiccator Method)
	Ammoniacal Nitrogen (as N)	MS 417-3:2020, Clause 6.1 Method I: Distillation Method
	Total Phosphorous (as P ₂ O ₅)	MS 417-4:2020, Clause 6.1, Method I: Spectrophotometric Molybdovanadate Method
	Citric Acid Soluble phosphorus (as P ₂ O ₅)	MS 417-4:2020, Clause 8

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Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	Total Potassium (as K ₂ O)	MS 417-5:2020, Clause 6.1, Method I: Flame Photometric Method
	Total Magnesium (as MgO)	MS 417-6:2020, Clause 6.1, Method 1: Atomic Absorption Spectrophotometry Method
	Water-Soluble Magnesium (as MgO)	MS 417-6:2020, Clause 7.1, Method 1: Atomic Absorption Spectrophotometry Method
	Total Boron (as B ₂ O ₃)	MS 417-7:2020, Clause 8
	Total Sulphate (as SO ₄)	MS 417-8:1997 (Gravimetric Method) (Amd. 1)
Agricultural Products And Materials Fertilizers And Liming Materials mixture/compound Fertilizer	Moisture	MS 417: Part 2 : 1994 (Oven Drying Method) In-House Method, Ref. No. F1, Based on MS 417: Part 2 :1994 (Vacuum Desiccator Method)
	Total Nitrogen (as N)	In-house Method, Ref. No. F2, based on MS 417-3: 2020, Clause 12, Modified Comprehensive Nitrogen Method
	Nitrate Nitrogen (as N)	MS 417-3:2020, Clause 7
	Ammoniacal Nitrogen (as N)	MS 417-3:2020, Clause 6.1
	Total Phosphorous (as P ₂ O ₅)	MS 417-4: 2020 Clause 13
	Total Potassium (as K ₂ O)	MS 417-5:2020, Clause 8
	Total Magnesium (as MgO)	MS 417-6:2020, Clause 9
	Total Boron (as B ₂ O ₃)	MS 417-7:2020, Clause 8
	Total Sulphate (as SO ₄)	MS 417-8:1997 (Gravimetric Method) (Amd. 1)
Agricultural Products And Materials Fertilizers And Liming Materials organic Fertilizers	Moisture	MS 417: Part 2 :1994 (Oven Drying Method)
	Total Nitrogen (as N)	In-house Method, Ref. No. F2, based on MS 417-3: 2020, Clause 12, Modified Comprehensive Nitrogen Method
	Total Phosphorous (as P ₂ O ₅)	In-house Method, Ref. No. F3, Based on MS 417-4: 2020, Clause 12
	Total Potassium (as K ₂ O)	In-house Method, Ref. No. F4, Based on MS 417-5: 2020 , Clause 7
	Total Magnesium (as MgO)	In-house Method, Ref. No. F5, Based on MS 417-6: 2020, Clause 8
	Total Boron (as B ₂ O ₃)	In-house Method, Ref. No. F6. Based on MS 417-7: 2020, Clause 7

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Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	pH	In-house Method, Ref. No. F7, Based on MS 2457: 2012 (Water or KCl)
	Organic Matter & Organic Carbon Content	MS 417: Part 8:1997 (Amd.1)

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