



MAKE SIMPLE AND EASY



GREENFEED SLOW RELEASE FERTILIZER MODERN AGRICULTURE PRACTICES



LABORATORY SERVICES



MS ISO/IEC 17025
SAMM NO. 694



ISO 14001:2015
IC-EM-2411018

DISCLAIMER

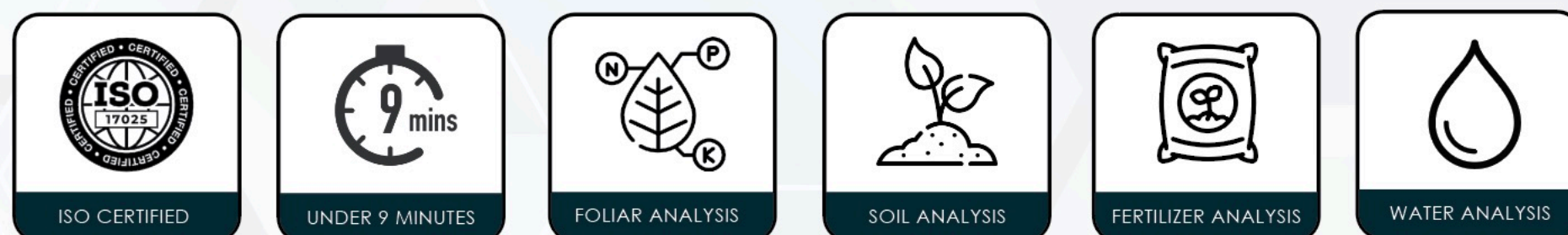
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Engaging scientists in laboratory sustainability to reduce nutrient waste!

At Green Lab, we take pride in our mission to foster a culture of sustainability through science, with our Green Lab Certification Program at its core. This program educates and engages scientists on laboratory sustainability best practices, empowering them to actively minimize the environmental impact of their operations.

Our commitment to efficiency and precision is reflected in our advanced testing procedures, which ensure rapid and accurate analysis of major nutrients such as NPK (Nitrogen, Phosphorus, Potassium), Calcium, and Magnesium in fertilizers, leaves, and soils.

Each test is completed in under 9 minutes, providing timely and reliable results that support research and decision-making while upholding high sustainability standards. Recognized by Standards Malaysia and fulfilling ISO/IEC 17025 requirements since 2015, we also focus on selecting less hazardous, more sustainable chemicals and designing protocols that reduce or eliminate the use of hazardous substances, offering comprehensive nutrient analysis as part of our journey toward Green Lab Certification



Accredited with ISO MS 17025 : 2017
No. SAMM 694

OUR OBJECTIVES

Our main goal is to provide a fast, accurate, cost-effective, and easy-to-understand analytical testing service. We have a knowledgeable team ready to offer technical guidance and professional advice at every stage.

We are well-equipped and staffed to process samples quickly and efficiently, ensuring high-quality service for our clients.

OUR PROFESSIONALS



Nurul Izzati Izni

Chemist /
Research & Development



Ani Hafizah

Chemist / Material Specialist
M/6295/10058/23



Siti Norfadilah

Chemist / Instrument Specialist
M/5559/9063/21



Izureen Alia

Quality Assurance
Engineering and Production



Nur 'Ain Habep

Quality Control
Engineering and Production



SOIL ANALYSIS

The physical and chemical characteristics of the soil need to be considered before making any soil management decisions or planning a nutrient application strategy. Soil pH, Cation Exchange Capacity, organic matter and soil texture all have an impact on how we manage our soil and crop.

Soil testing can be conducted for various purposes. Its main uses include:

1.	Assessment of land capability for various forms of agriculture,
2.	Identifying and quantifying soil constraints (e.g. salinity),
3.	Monitoring of soil fertility levels.
4.	Providing guidelines as to the type and amount of fertilizer to be applied for optimum plant growth on the particular site

Note: A minimum of 200g soil sample is required for the analysis

The report also interprets the results compared to benchmark levels and gives recommendations to avoid deficiencies. The nutrients included in this analysis are:

1.	Nitrogen (N)	6.	Cation Exchange Capacity (CEC)
2.	Phosphorus (P)	7.	pH
3.	Potassium (K)	8.	Electrical Conductivity (EC)
4.	Calcium (Ca)	9.	Carbon (C)
5.	Magnesium (MgO)		



FERTILIZER ANALYSIS

Green Lab has an intensive quality monitoring program performed in accordance with the Association of Fertilizer & Phosphate Chemists (AFPC), the Association of Analytical Chemists (AOAC), The Fertilizer Institute (TFI), ISO, CEN that fulling international ISO/ICE 17025

1.	Qualitative and quantitative analysis
2.	Major and trace elemental analysis
3.	Chemical and physical analysis

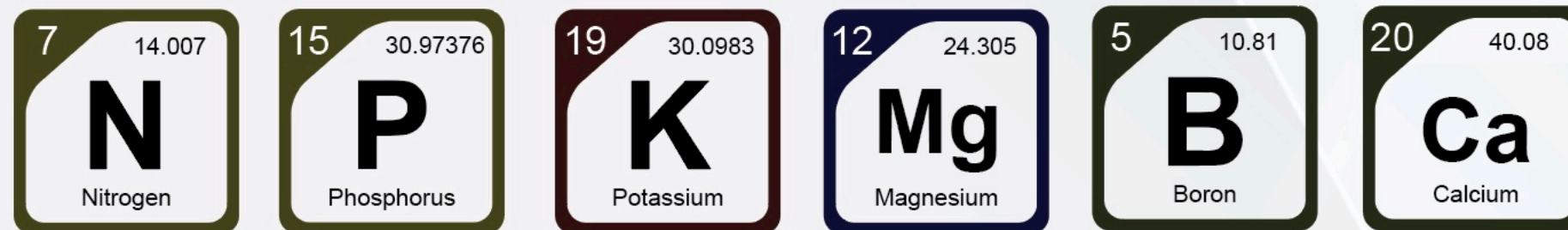
We are capable of performing these analyses on a wide range of fertilizer and related commodities:
Slow Release, Control Release, Feed grade, Liquid, Phosphate, Urea, UAN.





FULL SPECTRUM LEAF ANALYSIS

This is our most popular analysis package, as it provides the nutrient levels for twelve plant nutrients, ensuring no deficiency is missed. It is the best choice for crop samples. The report also interprets the results compared to benchmark levels and offers recommendations to correct any deficiencies. The nutrients included in this analysis are



Analysis of foliar, soil, and fertilizer provides the information needed to ensure that crop nutrition decisions are timely, accurate, efficient, and cost-effective.

Acquiring and utilizing accurate information in the form of analytical data, as described above, is fundamental to many decisions made in the agricultural, horticultural, environmental, and amenity sectors. For crop production, it enables the planning of a fertilizer program that is precise, timely, easy, and as environmentally friendly as possible. In short, soil and leaf analysis provides the critical information required to ensure all crop nutrition decisions are accurate, efficient, cost-effective, and responsible



WATER ANALYSIS

At GreenLab, we provide detailed water analysis to ensure water quality meets the necessary standards for agricultural and industrial applications. Our laboratory is equipped with cutting-edge technology and follows international standards, including ISO/IEC 17025, to deliver accurate, reliable, and actionable insights.

Our water analysis covers essential physical and chemical parameters, including:

1.	pH – Determines water acidity or alkalinity, crucial for nutrient availability.
2.	Electrical Conductivity (EC) – Measures salinity levels that may affect crop growth.
3.	Alkalinity (mg/L CaCO ₃) – Assesses the buffering capacity of water.
4.	Total Dissolved Solids (TDS) – Evaluates mineral and salt concentration.
5.	Total Suspended Solids (TSS) – Identifies particulate matter that may affect water clarity.
6.	Total Nitrogen (N) & Total Phosphorus (P) – Key indicators of nutrient levels affecting plant development.
7.	Exchangeable Potassium (K ₂ O), Magnesium (MgO), and Calcium (Ca) – Essential macronutrients for plant health.
8.	Boron (B ₂ O ₃) – A vital micronutrient influencing plant growth and development.

By analyzing these parameters, we provide data-driven recommendations to help farmers and agricultural professionals optimize irrigation strategies, prevent soil degradation, and enhance nutrient uptake. Our goal is to ensure that your water source supports healthy, high-yielding crops while maintaining long-term soil sustainability.

Note: A minimum of 200ml water sample is required for the analysis.

DEFINING CLEAR INDICATION AND TABULATION OF RESULT

We understand that analytical data can be meaningless if it is not presented in an understandable way. At Green Lab, we help interpret the results and provide crop-specific recommendations, which are included in our sample reports.

EASILY ACCESSIBLE

Reports are emailed as soon as they become available from the laboratory. All results can be supplied in various formats to ensure compatibility with other agronomic software. Additionally, direct access to all previous reports and further interpretation details is available online at any time.



Total Cost Breakdown for a normal full soil testing analysis:

Item	Description	Quantity	Unit Price (RM)	Total (RM)
1.	Chemical Analysis for Soil :			
	pH	1	35.00	35.00
	Total N (%)	1	80.00	80.00
	Total C (%)	1	80.00	80.00
	Total P (mg/kg)	1	80.00	80.00
	Exchangeable Potassium, as K ₂ O (cmol/kg)	1	80.00	80.00
	Exchangeable Magnesium, as MgO (cmol/kg)	1	80.00	80.00
	Exchangeable Calcium, as Ca (cmol/kg)	1	80.00	80.00
	Cation Exchange Capacity, CEC (meq/100 g)	1	35 / 280	35.00
	Electrical Conductivity, EC (uS/cm)	1	35	35.00
			Total (RM)	585.00



Total Cost Breakdown for Chemical Analysis for Fertilizer:

Item	Description	Quantity	Unit Price (RM)	Total (RM)
2.	Chemical Analysis for Fertilizer :			
	Total N (%)	1	80.00	80.00
	*Total C (%)	1	80.00	80.00
	Total P (%)	1	80.00	80.00
	Potassium, as K ₂ O (%)	1	80.00	80.00
	Magnesium, as MgO (%)	1	80.00	80.00
	Boron, as B ₂ O ₃ (%)	1	80.00	80.00
	*pH	1	35.00	35.00
	*Moisture (%)	1	35.00	35.00
	*Hardness / Crush Strength (kgf)	1	30.00	30.00
	* Calcium, as CaO (%)	1	80.00	80.00
			Total (RM)	580.00



Total Cost Breakdown for Chemical Analysis for Foliar:

Item	Description	Quantity	Unit Price (RM)	Total (RM)
3.	Chemical Analysis for Foliar :			
	Total N (%)	1	80.00	80.00
	Potassium, as K (%)	1	80.00	80.00
	Magnesium, as Mg (%)	1	80.00	80.00
	Calcium, as Ca (%)	1	80.00	80.00
	*Phosphorus, as P (as %)	1	80.00	80.00
			Total (RM)	400.00



Total Cost Breakdown for Chemical Analysis for Water:


Item	Description	Quantity	Unit Price (RM)	Total (RM)
4.	Chemical Analysis for Water:			
	pH	1	35.00	35.00
	Electrical conductivity EC (uS/cm)	1	35.00	35.00
	Alkalinity (mg/L CaCO ₃)	1	60.00	60.00
	Total dissolve solid (mg/L)	1	45.00	45.00
	Total suspended solid (mg/L)	1	60.00	60.00
	Hardness	1	25.00	25.00
	Total N (mg/L)	1	80.00	80.00
	Total P (mg/L)	1	80.00	80.00
	Exchangeable Potassium, as K ₂ O (mg/L)	1	80.00	80.00
	Exchangeable Magnesium, as MgO (mg/L)	1	80.00	80.00
	Exchangeable Calcium, as Ca (mg/L)	1	80.00	80.00
	Boron, as B ₂ O ₃ , (mg/L)	1	80.00	80.00
			Total (RM)	660.00


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