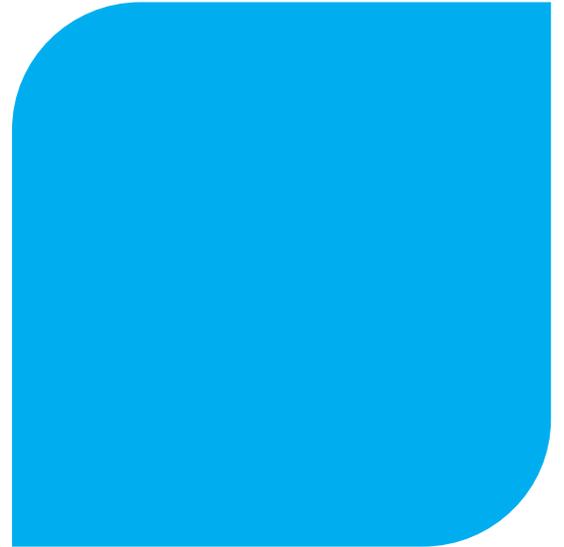


# MALAYSIA **ANALYTICAL LAB**



Control Union is a member of the TIC Council—a global, trustworthy partner for testing, inspection, and certification (TIC)—providing comprehensive quality services in over 80 countries, including Malaysia since 1987. Over the years, Control Union Malaysia has grown rapidly in the inspection and certification industries and is now expanding into testing services to meet the critical demands of Malaysia’s palm oil, biomass, and metal and minerals sectors.

The laboratory aims to begin operations in the 3rd quarter of 2025 with ISO17025 accreditation, aspiring to be the leading analytical service provider in ASEAN. The lab is committed to accuracy, reliability, and sustainability, providing a complete TIC value proposition to meet stringent regulatory compliance. Our Mission is to provide high-quality testing solutions that uphold industry standards, foster sustainability, and drive innovation.

## OUR SERVICES

- Laboratory Testing: Biomass, Palm Oil, MMM (Minerals, Metals & Materials), Environment and Microbiology
- Research Studies: Specialized studies on industry-relevant topics
- Plug & Play: Onsite Laboratory Setup

## TYPES OF SAMPLES

We offer comprehensive analysis for a wide range of samples across diverse industries:



### SOLID BIOMASS

Wood pellets, wood chips, sawdust, palm kernel shells, cashew nut shells, coconut shells, biochar, coal, rice husk, and more.



### PALM OIL & OTHER VEGETABLE OIL PRODUCTS

Crude palm oil (CPO), refined bleached deodorized palm oil (RBDPO), palm olein, sunflower oil, rapeseed oil, used cooking oil (UCO), palm kernel oil (PKO), palm fatty acid distillate (PFAD), olein fatty acid, palm oil mill effluent (POME), and more.



### METALS & MINERALS

Iron ore, coal, coke, manganese ore, fertilizers, and other mineral samples.



### ENVIRONMENTAL

Industrial Effluent, Wastewater, Sewage, Raw Water, Surface water, Mineral water, Drinking water



### MICROBIOLOGY

PKE, Environment, Food and etc.

## TESTING CAPABILITIES

### PHYSICAL TESTING

Length, Diameter, Fines, Dust, Durability, Bulk Density, Pellet Density, Particle Sizes, Foreign Matter

### PROXIMATE ANALYSIS

Moisture (total, inherent, surface), Volatile Matter, Fixed Carbon, Ash Content, Color, Chlorophyll, Gravimetric & Titration Analysis

### TRACE METALS ANALYSIS

Cr, Ni, Zn, Cu, Cd, Pb, Sn, Se, B, Sb, Co, V, Mn, Ti, Ba, Be, Mo, Tl, Sr, As, Hg

### MAJOR METALS ANALYSIS

Al, P, Fe, Ca, Li, Mg, Si, Na, K

### ASH MELTING BEHAVIOR

Shrinkage Temperature (ST), Initial Deformation Temperature (IDT), Hemisphere Temperature (HT), Flow Temperature (FT)

### CALCULATION OF SALTS IN ASH

NaCl, KCl, CaCl<sub>2</sub>, etc.

### MICROBIOLOGY

E.coli, Salmonella, P. aug, S. aureus, Total plate count, Yeast and mould count, Total coliforms and etc.

### GENERAL ANALYSIS

Phosphorus, DOBI, Carotenoids, pH and etc

### CHROMATOGRAPHY

MOSH, MOAH, 3-MCPD, GE, Dioxins, PAH, Antioxidants, Tocopherol, Mineral Oils, Fatty Acid Composition

### ELEMENTAL ANALYSIS

Carbon, Hydrogen, Nitrogen, Oxygen, Sulfur, Chlorine, Bromide, Fluorine

### ENERGY CONTENT

Net Calorific Value, Gross Calorific Value

### OXIDES IN ASH

Al<sub>2</sub>O<sub>3</sub>, CaO, K<sub>2</sub>O, MgO, Na<sub>2</sub>O, P<sub>2</sub>O<sub>5</sub>, SiO<sub>2</sub>, TiO<sub>2</sub>, Fe<sub>2</sub>O<sub>3</sub>, SO<sub>3</sub>, etc.

### ENVIRONMENTAL

pH, Temperature, COD, BOD, TSS, O&G, AN, Chromium Hexavalent, Chromium Trivalent, CN, F, Formaldehyde, Phenol, Free Chlorine, S, Colour, Heavy Metal Testing

## WHY CHOOSE US?

- ✓ **Commitment to Quality:** Our rigorous quality assurance procedures ensure the highest standards of reliability, accuracy, and consistency.
- ⌚ **Faster Turnaround Time (TAT):** We recognize the importance of timely results and are dedicated to delivering reports quickly without compromising quality.
- 🏠 **One-Stop Hub for Comprehensive Testing:** As a single hub center offering a wide range of analytical services, we provide complete solutions under one roof, making your testing process seamless and efficient.
- 🎓 **Expertise:** Our team of experienced professionals brings in-depth knowledge and expertise, particularly in the analysis of palm oil, biomass, minerals, metals, and materials (MMM), environmental and microbiology ensuring reliable and accurate results.
- 🏗️ **State-of-the-Art Facilities:** We utilize advanced technology and cutting-edge equipment to deliver precise and efficient results for every test.

## CONTACT US

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