

FOOD AND BEVERAGE ANALYSIS

Food and beverage quality control is a very important activity to ensure the safety and quality of the products consumed. With the introduction of new products each year leading to the growth of the food and beverage industry, more analytical challenges arise. The quality and safety of these products must be monitored to help track contamination and their consistency from raw ingredients to the final product. With this current requirement, our laboratory is offering testing services which include microbiological test for pathogens as well as spoilage organisms. Failure to identify these pathogens may lead to food poisoning outbreaks.

- Testing Parameter:

- ✓ Microbiology – Total Plate Count, E. Coli / Coliform, Salmonella spp., Yeast & Mold, Staphylococcus aureus, etc. (ISO17025 Accredited)
- ✓ Heavy Metal – Lead, Mercury, Arsenic, Cadmium, Selenium (Se), Antimony (ISO17025 Accredited)
- ✓ Nutritional Analysis – Glycemix Index (GI)
- Method used is the AOAC, an in-house method
- Compliant with the Malaysian Food Act
- Product categories include Fresh and processed foods, all types of beverages, Edible Oils
- Registered with Institute Kimia Malaysia & Malaysia Food Analyst Act



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LABORATORY TESTING SERVICES



WATER ANALYSIS

Surface water is one of the sources of human domestic water, industrial water and agricultural irrigation. The quality of water is directly related to the level of human life. This affects human health and well-being and it is a worldwide challenge to have clean and safe water. Therefore, the detection of surface water pollution is very important, and it is required by Ministry of Health (MOH).

- Testing Parameter:
 - ✓ Chemical Characteristics - COD (*ISO17025 Accredited*)
 - ✓ Heavy metal - e.g: Mercury, Lead, Cadmium, Chromium, Cyanide, Arsenic, Copper, Manganese, Tin, Zinc, Boron, Aluminium, Selenium, Barium, Zinc, Nickel and etc. (*ISO17025 Accredited*)
 - ✓ Biological Characteristics - e.g. TPC, Yeast & Mould, E.Coli, Coliform, Salmonella, Staphylococcus Aureus,
- Method: APHA Standard Method, AOAC
- Compliant with Department of Environmental (Minister of Environment and Water)
- Source: Drinking water, Ground Water, Wastewater, Industrial Effluent, Sewage water, Cooling tower water, Swimming pool water, River/lake/marine water, Rain/storm water, etc.

PHARMACEUTICAL ANALYSIS

The pollution of pharmaceutical products is hazardous to public health.

Therefore, during the production process, there is a stringent regulatory process in place for the formulation and performance of pharmaceutical products and final quality acceptance. Pharmaceutical testing and analysis of authenticity is needed especially when it goes beyond the active compounds which can be spiked into non-authentic products. Geographic origin, freshness and production type are also some of the factors that can affect health and therefore, require testing.

- Testing Parameter:
 - ✓ Heavy Metals Analysis - Mercury, Arsenic, Lead, Cadmium (*ISO17025 Accredited*)
 - ✓ Microbiology
 - ✓ Other - Drug compounds, Contaminants, etc
- Method: In-house method on USP233, standard method, AOAC
- Source: Liquid, capsule, tablet, pill, powder, traditional medicine, herbs, medicated oil, ointment, antiseptic, supplements.

COSMETIC ANALYSIS

(ISO17025 Accredited)

As the beauty and toiletries industry is highly competitive, product safety and quality are important for global manufacturers, brands and everyone within the supply chain.

Our highly experienced global network of specialists provide expertise in all aspects of cosmetics, household care, hygiene testing and regulatory guidance. Our state-of-the-art facilities and technology will ensure your products are safe, effective and compliant.

- Testing Parameter:
 - ✓ Heavy metal - e.g: Mercury, Lead, Cadmium, Chromium, Arsenic, Copper, Manganese, Tin, Zinc, Boron, Aluminium, Selenium, Barium, Zinc, Nickel and etc.
 - ✓ Biological Characteristics - e.g. TPC, Yeast & Mould, E.Coli, Coliform, Salmonella, Staphylococcus Aureus,
- Method: In-house method on USP233, AOAC
- Source: Body care products, Toiletries products, Perfume, Sun Care products, Hair Care products, Lipstick, Powder, Lotion, Skincare, etc.

ENVIRONMENT ANALYSIS

Effluent Testing

As environmental regulations play an increasingly important role in business activities, companies are under pressure to ensure that their activities meet the standards of environmental management. We offer a range of standard industry and regulatory suites for the analysis of industrial effluents.

- Testing Parameter:
 - ✓ Chemical Characteristics - e.g. COD (*ISO17025 Accredited*)
 - ✓ Heavy metal - e.g: Mercury, Lead, Cadmium, Chromium, Cyanide, Arsenic, Copper, Manganese, Tin, Zinc, Boron,

Aluminium, Selenium, Barium, Zinc, Nickel and etc. (*ISO17025 Accredited*)

- Method: APHA
- Compliant with Malaysian Food Act, Department of Environment (Minister of Environment and Water)
- Source: Industrial Effluent, Sludge, Soil, Solid Waste, etc

Indoor Air Quality

Indoor air quality (IAQ) testing service helps businesses and organisations ensure the health and well-being of employees and customers by monitoring the presence of airborne microorganisms in indoor environments. IAQ is a growing concern for many organisations as poor indoor air quality can lead to health problems such as allergies, asthma, and respiratory infections.

- Testing Parameter:
 - ✓ Microbiology - Enumeration of Total Bacterial Count, Enumeration of Total Fungal Count
- Method: Standard method
- Source: Chimney/Stack, office, workstation