UTM UNIVERSITI TEKNOLOGI MALAYSIA | Institute of Bioproduct Development

IBD LABORATORY SERVICES (IBDLS)

IBD is provide professional testing services for chemical and microbiological samples, primarily in food, herbal based product, nutraceutical, chemical fertilizer, bio-organic fertilizer and cosmetics products. The laboratory is supported with well-trained & competent personnel in sample handling & testing.

HISTORY

IBDLS has successfully obtained ISO/IEC 17025 SAMM accreditation since 27 August 2009 from Department Standard Malaysia (DSM) for proximate analysis, microbiology analysis and water analysis. The testing scope have been extended to cordycepin & Eurycomanone identification in 2011 and beneficial microbe in soil & fertilizer in 2015. The laboratory also has awarded BioNexus partner in 2011 by Malaysian Biotechcorp Sdn Bhd.

OUR STRENGTH

- The IBD quality system is accredited to ISO/IEC 17025:2017 with SAMM no 433
- IBD meets the technical competence and management system requirements necessary to consistently deliver technically valid test results and services.
- Efficient, quality driven & Professional

LABORATORY ANALYTICAL SERVICES

a) Nutritional testing
b) Microbiological Testing
c) Macro & micro nutrient Testing
d) Biofertilizer & fertilizer testing
e) Others
   - Validation studies for new formula
   - Cosmeceutical Testing

AWARDS AND ACHIEVEMENTS

MS ISO/IEC 17025 CERTIFICATION AWARDED BY DEPARTMENT OF STANDARD MALAYSIA

BIONEXUS LABORATORY AWARDED BY MALAYSIAN BIOTECHCORP

WEBSITE IBD: WWW.IBD.UTM.MY

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STANDARDS MALAYSIA ACCREDITED | MeSTI | BIONEXUS PARTNERS LABORATORIES | HALAL

A) CHEMICAL TESTING

1) Macro and micronutrient
(Fertilizer, herb, food sample)
a. Total Nitrogen, N
b. Phosphorus, P
c. Potassium, K
d. Calcium, Ca
e. Magnesium, Mg
f. Boron, B
g. Molybdenum, Mo
h. Ferum, Fe
i. Manganese, Mn
j. Sodium, Na

2) Elemental analysis (ICP-MS)
(Herb, water, food sample)
Main parameter
a. Cadmium, Cd
b. Lead, Pb
c. Arsenic, As
d. Mercury, Hg

Others

e. Aluminium, Al
f. Chromium, Cr
g. Nickel, Ni
h. Silver, Ag
i. Beryllium, Be
j. Cobalt, Co
k. Vanadium, V
l. Copper, Cu
m. Selenium, Se
n. Strontium, Sr
o. Zink, Zn

3) Moisture

4) pH (APHA 4500H+B)

5) Antioxidant (DPPH)

6) Total Phenolic Compound (TPC)

B) MICROBIOLOGY TESTING

1) Beneficial microbe Analysis
*ISO/IEC 17025 Accredited
a. Actinomycetes
b. Yeast
c. Lactobacillus
d. Nitrogen Fixing
e. Nitrifying
- Quantitative 30 days
- Qualitative 7 days
(present/absent)

3) Pathogen microbe Analysis
*ISO/IEC 17025 Accredited
a. Salmonella spp
b. Pseudomonas
c. E.coli
d. Yeast & Mold Count
e. Total Viable Aerobic count
f. Enterobacter
g. Staphylococcus aureus
Additional
h. Candida albican
i. Coliform

4) Anti-microbial Testing
a. Gram positive
b. Gram negative
c. Yeast

C) COSMECEUTICAL AND FRANGRANCE ANALYSIS

1) Sensory evaluation - cosmetic and fragrance
- Skin Feel
- Spreadability
- Tackiness/greasiness/ stickiness
- After-feel
- Fragrance acceptance

D) FOOD ANALYSIS

1) Proximate Analysis
* ISO/IEC 17025 Accredited
a. Protein
b. Fat
-Soxhlet for solid sample
-Hydrolysis for liquid sample
c. Ash
d. Moisture
e. Energy
f. Carbohydrate
g. Crude Fiber

Additional
h. Dietary fiber

2) Sensory Evaluation Test

3) Dissolution test

E) INSTRUMENT AVAILABLE

1) HPLC
- RI Detector
- Florescence Detector
- PDA Detector
- UV Detector
2) FTIR
3) FPLC
4) LCMS/MS
5) ICPMS
6) MICROWAVE DIGESTOR