

Nexus of Expertise: Bio-Industry

Analysis:

Marine Services

Sample collection/ID
Compound extraction
Toxicology

Analytical Lab

Occupational Safety and Health
Medical device testing
Food & Agriculture testing
Environmental testing
Pharmaceutical testing

Microscopy

Scanning Electron Microscope (SEM)
Transmission Electron Microscope (TEM)
Elemental Analysis (EDX)
Sample preparation for SEM & TEM
Field of services- Biobased, material base, agriculture, biotech, medical/biomedical, pharmaceuticals, healthcare

Bioprocess Engineering

Monoclonal antibodies products
Lab scale production
Pilot Scale-up studies
Commercial production
Cell bank storage
Freeze drying & spray drying
Bio fertilizer R&D and production

Halal Bio product

Gap analysis on Halal product processing
Alcohol Detection
Fatty Acid Methyl Ester Profiling for oil-based products
Amino Acid Profiling & determination of gelatin source
Physical & biochemical test for detection of Halal or non-halal product
Detection of Porcine DNA

Food Technology

Nutritional Fact Analysis: fat, fibre, carbohydrate,
protein, ash & cholesterol, glycemic index
Heavy metal analysis
Microbe test
Allergen test
Honey analysis
Mechanical analysis
Mycotoxins
Pesticides residue
Furan, dioxin, PCB & melamine
Food pathogen test
GMO test
Total polyphenols
Total bioflavonoids
Carotenoids
Phenolic acids
Flavonoids
Nucleosides and nucleotides
Sterols
Amino acids
Fatty acids including omega fatty acids
Vitamins
Lactobacteria
Food Shelf Life Testing
Upstream and downstream fermentation process (pilot scale)