

“Founded in 1984,  
**CHEMSAIN Laboratories**  
provide a wide range of  
**chemical and microbiological**  
testing services nationwide ”

**CHEMSAIN Laboratories has been awarded the:**

- **SAMM/ISO G25 - ISO/IEC 17025** certification since 1994.



- Malaysian Institute of Chemistry **Laboratory Excellence Gold and Platinum Awards** for a continuous period exceeding 20 years since 1986.

CHEMSAIN Laboratories have participated in numerous proficiency programs organised by the Malaysian Department of Chemistry and the National Association of Testing Authorities, Australia (NATA) in a continuous effort to obtain accreditations and certifications which ensure the **HIGHEST STANDARD OF QUALITY with RELIABLE, ACCURATE and CONSISTENT DELIVERY** of results by its laboratories.



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MS ISO/IEC 17025

**CHEMSAIN  
LABORATORIES**

**FOOD & AGRICULTURAL  
PRODUCTS  
TESTING SERVICES**



# FOOD ANALYSIS AND TESTING

NUTRITIONAL LABELLING	PRESERVATIVES	ANTIBIOTICS
Total Nitrogen	Benzoic Acid	Chloroamphenicol
Moisture	Sorbic Acid	Nitrofurantoin
Ash	Sulfur Dioxide	Nitrofurazone
Protein	<b>HEAVY METALS</b>	Nitrofurantoin
Fat		Furazolidone
Carbohydrate	Lead	Furaltadone
Energy	Mercury	Oxytetracine
<b>OTHERS</b>	Cadmium	Furazolidone, AOZ,
	Antimony	Furaltadone AMOZ,

MICROBIOLOGICAL ANALYSIS	
Standard Plate Count (CFU/g, 30±1°C/72h)	Vibrio parahaemolyticus
Coliform Count (MPN/g, 37±1°C/48h)	Yeasts and Molds Count (CFU/g, 22-25°C/5day)
Coliform Count, MPN/g, 35±0.5°C/48h	Staphylococcus Enterotoxin
E.coli Count (MPN/g, 44.0-44.5°C/48h)	Listeria spp.
Coagulase-positive Staphylococci (CFU/g, 37±1°C/48h)	Shigella spp.
Salmonellae spp	Bacillus cereus (CFU/g, 37°C/48±4h)
Vibrio cholerae	Clostridium perfringens (CFU/g, 37°C/18-24h)

FRUITS AND VEGETABLES	EDIBLE BIRD'S NEST	FISH
<b>Organophosphorated Pesticides</b>	<b>Organochlorinated Pesticides</b>	Nitrite and Nitrate
Methamidophos	Aldrin	Formaldehyde
Chlorpyrifos	Dieldrin	Hydrogen peroxide
Malathion	DDT	Heavy Metals
Dimethoate	Heptachlor	Mercury
	Heptachlor Epoxide	
	Lindane	
	Methoxychlor	
	Hexachlorobenzene	
	Endosulfan	

SWAB TEST
Hand And Surface
Standard Plate Count
Coliform Count/ E. coli Count
Coagulase-positive Staphylococci
Salmonellae spp

# AGRICULTURAL PRODUCTS AND MATERIALS

FERTILIZERS		
Total Nitrogen. Kjeldahl (as N)	Magnesium (as MgO) %	Zinc (as Zn) mg/kg
Total Phosphorus (as P2O5) %	Boron (as B2O3) mg/kg	Manganese (as Mn) mg/kg
Potassium (as K2O) %	Copper (as Cu) mg/kg	Iron (as Fe) mg/kg

SOIL	
pH (2:5)	Cation Exchange Capacity (CEC)
Nitrogen (as N)	Chloride (as Cl)
Organic Carbon	Sulphate (as SO <sub>4</sub> )
Conductivity	Acid Extractable Potassium (as K)
Phosphorus	Acid Extractable Calcium (as Ca)
Exchangeable Potassium (K)	Acid Extractable Magnesium (as Mg)
Exchangeable Calcium (Ca)	Exchangeable Magnesium (Mg)

PALM OIL & PALM OIL PRODUCTS		PLANT	
Lovibond colour	DOBI	Nitrogen (as N)	Calcium (as Ca)
Moisture & volatile matter	Carotene content	Phosphorus (as P)	Copper (as Cu)
Impurities	Slip melting point	Potassium (as K)	Zinc (as Zn)
Acidity	Iodine value	Magnesium (as Mg)	Boron (as B)

COMPOST
*Moisture @ 105°C, %
*Total Nitrogen, Kjeldahl (as N), %
*Potassium (as K2O), %
*Phosphorus (as P2O5), %
*Magnesium (as MgO), %
Total Organic Carbon, %
*C/N Ratio

OTHERS
Wood pellet
Caustic Soda
Ammonium hydroxide
Packaging materials
Water Treatment Chemicals