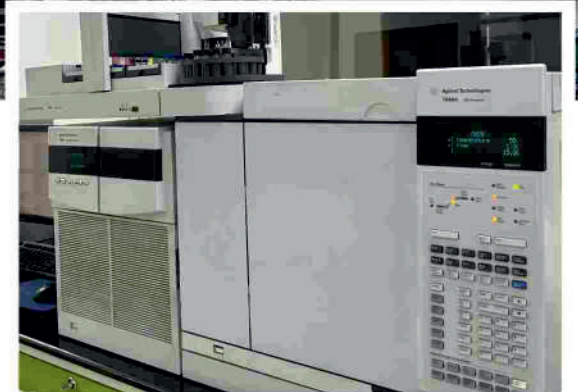




FOOD, WATER, ENVIRONMENTAL & DRUG TESTING LABORATORY



Our Accreditations, Recognition & Approvals



ABOUT US:

HECS's Laboratory Division is housed in a state-of-art facilities in Chennai and Mangalore, delivering specialized analytical services across Food, Enviroment, Water and Drug sectors. Accredited by the National Accreditation Board for Testing and Calibration Laboratories (NABL) under ISO/IEC 17025:2017, Recognized by MoEF, BIS and FSSAI notified, approved for carrying out tests on drugs under Form 37, we are pleased to offer our services to you at reasonable prices.



FOOD TESTING SERVICES

1. FOOD & AGRICULTURAL PRODUCTS
 - i. Bakery & Confectionery products
 - ii. Cereals, pulses & cereal products
 - iii. Coconut & coconut products / Natural plant derivatives
 - iv. Coffee & cocoa products
 - v. Edible oil & fats
 - vi. Fruit & fruit products
 - vii. Herbs, spices & condiments
 - viii. Honey, Extracted honey
 - ix. Infant foods
 - x. Jam, juice, sauces & concentrates
 - xi. Meat & meat products
 - xii. Nuts & nut products
 - xiii. Edible salts
 - xiv. Egg & egg products
 - xv. Sugar & sugar products
 - xvi. Tea
 - xvii. Vegetables & vegetable products
 - xviii. Alcoholic beverages & soft drinks
 - xix. Food additives
 - xx. Milk & dairy products
 - xxi. Proprietary foods
 - xxii. other foods
2. Health Supplements, Nutraceuticals, Food For Special Dietary use, Food For Special Medical Purpose, Functional & Novel Food
3. Marine / Aqua Culture Food Products
4. Animal Food & Feeds

Food Testing Service Scope:

Nutritional labelling parameters as per FSSAI

- Recommended dietary allowances (RDA)

Quality parameters

Adulterants

Metal Contaminants

- Lead
- Copper
- Arsenic
- Tin
- Cadmium
- Mercury
- Chromium
- Nickel
- Selenium
- Antimony
- Methyl Mercury

Crop Contaminants

- Total Aflatoxins
- Aflatoxin B1
- Aflatoxin M1
- Ochratoxin A
- Patulin
- Deoxynivalenol

Naturally Occurring Toxic Substances

- Agaric acid
- Hydrocyanic acid
- Hypericine
- Saffrole

Melamine-Other Contaminants

Histamine

Poly Chlorinated Biphenyls (PCBs)

Polycyclic Aromatic Hydrocarbons

Pesticide Residues

Fatty Acid Profile

- Saturated Fatty acids
- Unsaturated Fatty acids
- Monounsaturated Fatty Acids(MUFA)
- Polyunsaturated Fatty acid(PUFA)
- Trans fat
- Cholesterol

Additives

- Artificial Colours
- Artificial Sweeteners
- Artificial Flavours
- Preservatives
- Benzoic Acid
- Sorbic Acid
- Sulfites
- Phosphates
- Nitrate
- Nitrite

Real-Time Shelf Life Study

Accelerated Shelf Life Study (ASLS)

Storage Temperature Study

Integrated Sensory and

Microbiological Evaluation

Incubation study of canned products

Migration Study

Antibiotic residues

Vitamins

- Water Soluble Vitamins
- Fat Soluble Vitamins

Minerals

- Calcium
- Magnesium
- Sodium
- Phosphorous
- Iron
- Zinc
- Iodine
- Selenium
- Copper

Microbiological Analysis

- Aerobic or heterotrophic plate count
- (TVC/TPC/SPC)
- Total yeast & mold count
- Total coliform count
- E.coli
- Enterobacteriaceae
- Faecal streptococci
- E.coli0157
- Staphylococcus aureus,
- Pseudomonas aeruginosa
- Detection of Salmonella sp.
- Detection of Shigellasp.
- Sulphite reducing Clostridia
- Vibrio cholerae
- Vibrio parahaemolyticus
- Bacillus cereus
- Listeria monocytogenes
- Campylobacter jejuni
- Clostridium perfringens
- Cronobactersakazakii

Water:

Industrial Water

- ✔ Processed Food & Beverage Industrial water
- ✔ Laboratory & Reagent water
- ✔ Recreational & Aquaculture water
- ✔ Water for Medicinal purpose
- ✔ Cooling Tower Water
- ✔ Feed Water
- ✔ Process Water
- ✔ WTP Outlet & Inlet Water
- ✔ Boiler Water & Condensate water for High - Pressure Boiler

Ground Water

- ✔ Well & Borewell water - IS 10500
- ✔ Tap Water

Potable and domestic water

- ✔ Raw Water
- ✔ Treated Water
- ✔ RO Water
- ✔ Process Water
- ✔ Surface Water
- ✔ Swimming pool Water
- ✔ Drinking Water
- ✔ Packaged drinking Water
- ✔ Packaged natural mineral Water,
- ✔ Water for food processing industry
- ✔ Irrigation Water
- ✔ Water from purifiers
- ✔ Drinking water - IS 10500
- ✔ Spring water - IS 13428
- ✔ Water for Human Consumption - Directive (EU) 2020/2184

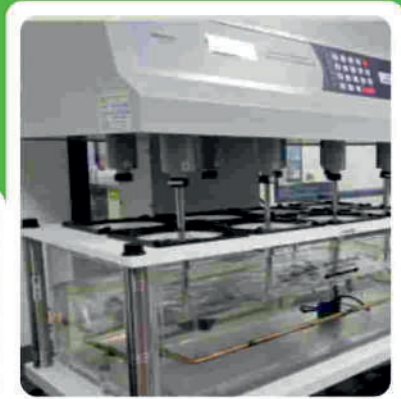


Drug:

Our state-of-the-art facilities and highly qualified team are equipped to handle a wide range of drug testing services in accordance with the Indian Pharmacopoeia (IP) standards, including:

Pharmacopoeial Testing (except microbiology)

- ✔ Raw materials
- ✔ Excipients
- ✔ Active pharmacopoeial ingredients (APIs)
- ✔ Bulk Drugs
- ✔ Finished products
- ✔ Herbal product analysis
- ✔ Crude and vegetable Drugs
- ✔ Disinfectants
- ✔ Antibiotics
- ✔ Vitamins
- ✔ Parental preparations



Environment:

Our Environmental testing services offer comprehensive analysis of Environmental Pollution covering the following categories

Ambient Air Quality

Indoor Air Quality

Stack Monitoring

- ✔ DG Stack Monitoring
- ✔ Boiler Stack Monitoring
- ✔ Scrubber Stack Monitoring
- ✔ Furnace Stack Monitoring
- ✔ Evaporator Monitoring
- ✔ Biomethanation Stack Monitoring
- ✔ Other Stack Emission Monitoring



Noise Monitoring

- ✔ Ambient Noise Monitoring
- ✔ Work zone Noise monitoring
- ✔ DG Noise Monitoring
- ✔ Continuous Noise Monitoring
- ✔ Insertion Loss

Waste water

- ✔ Sewage Water (Inlet & Outlet)
- ✔ Effluent water (Inlet & Outlet)
- ✔ ETP RO water
- ✔ ZID Permeate water
- ✔ Chrome Liquid water
- ✔ RO Reject water



Soil

Sludge

- ✔ Municipal waste
- ✔ Hazardous water

Used Oil Testing

Waste Oil Testing

Leather Samples

- ✔ Wetblue



- Bioassay
- VOC Study
- Briquette Samples
- Risk Assessment
- Clean Room Study
- Greenbelt Survey
- Green House Gas Study
- Biodegradability Test
- Treatability Study

- ✔ Waste water
- ✔ Sewage water
- ✔ Effluent water

- Solid waste Management
- Micro meteorology
- Industrial Hygiene Assessment



Our Laboratory Facilities:

Our Laboratory is equipped with instruments like

Chromatography

- ✔ LC-MS / MS
- ✔ GC-MS MS
- ✔ HPLC - DAD / FLD
- ✔ GC MS Headspace / Purge & Trap
- ✔ Ion Chromatography
- ✔ GC-MS

Trace Elements and Heavy Metals Analysis

- ✔ ICP-MS
- ✔ AAS
- ✔ Flame Photometer

Others

- ✔ FTIR
- ✔ UV-Vis Spectrophotometer
- ✔ Microscopy
- ✔ Protein Analyser
- ✔ Microwave digester
- ✔ Dissolution Test Apparatus
- ✔ Disintegration Apparatus



We Also offer:



Student projects

Undergraduate, Post graduate students and research scholars from different institutions are permitted to do their research work in our lab.

Training

We offer short term hands on training on equipments like LC-MS/MS, GC-MS/MS, HPLC, IC & FTIR, ICP-MS etc; Quality parameter analysis and microbiological analysis of food products.

Consultancy

We help you to adhere to the FSSAI Standards, requirements and keep you informed about the latest amendments in licensing / registration: packaging; labelling and display; advertising and claims etc;

HECSTM

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