



Microbiological & Genetic Testing

'Microbiology' is a science that deals with organisms invisible to the naked eye. This makes testing all the more crucial and challenging. Microbiological Testing includes tests for bacteria, yeast, moulds, pathogens & others.

The quality and shelf life of any product depends on the nature and presence of microorganisms. Under favourable conditions, microorganisms grow resulting in a loss of product quality (spoilage). Microbiological monitoring and control is an essential part of Quality Assurance.

We at Testtex play a vital role in testing and certifying Agricultural commodities, Food, Beverages, Water, Cosmetics, Textile, Leather, Packaging Material, Environment, Medical Equipments, Child care Articles, etc.

Types of analysis as per National & International standards carried out in microbiological laboratory are:

- Onsite sampling and inspection of food & water
- Total Plate Count
- Yeast & Mould
- Coliform
- Microscopic Analysis for detection & enumeration of pathogens
- Sterility Test
- Hygiene Checks
- Environmental Monitoring
- Surface Swab Testing
- Others

Other Specific Tests

- Preservative challenge test
- Toxicity in terms of Algal inhibition test as per OECD 201 for chemicals dyes, auxiliaries (In vitro)
- Microbial limit test
- Evaluation of disinfectants
- Reidel walker coefficient
- Anti bacterial and antifungal activity check for textile & leather articles
- Sterility test for medical equipments

Detection of pathogens

- Salmonella
- Sulphite Reducing Anaerobes
- S.aureus
- Listeria
- E.coli
- Vibrio cholera
- Vibrio parahaemolyticus
- Pseudomonas
- Shigella
- Bacillus cereus
- Klebsiella
- Campylobacter
- Legionella
- Fecal streptococci
- Clostridium spp
- Bacillus cereus
- Enterobacteriaceae
- Thermophilic and mesophilic organisms
- Proteolytic and lipolytic organisms
- Psychrotrophic bacteria
- Others

Testing Undertaken as specified by

BIS, ISO, BAM, APHA, Others

We are an IOPEPC approved laboratory for the testing of Sesame Seeds for export to EU countries.

Genetic Testing

DNA based techniques are adopted for species confirmation, allergen identification in food products and GMO (genetically modified organisms detection).

At Testtex, GMO detection by RTPCR is the most sensitive and precise GMO test method, as it allows direct analysis of the DNA. We utilize national & international validated methods for detecting allergens, GMO & quantifying mutants in plant genomes with high accuracy and detection sensitivity.

Services

- Allergen testing by RTPCR (Real Time Polymerase Chain Reaction) Analysis
- GMO/NON GMO Certifications for Food & Agricultural Commodities
- "real-time" Qualitative and quantitative GMO Test methods
- Specific Plant DNA Detection at molecular level
- Definitive quantification with a broad range of sample types.
- Identification of species
- Others



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