

Microbiology

Eurofins – worldwide competence in microbiological testing

Microbiology is the science of microbes and micro-organisms, i.e. all tiny and microscopic living creatures. In the context of microbiological testing the term means analysis for bacteria, yeasts and fungi or moulds with the aim of making foods and other products such as cosmetics safer for our clients, meeting statutory requirements and protecting the consumer.

Products capable of analysis

- Foods
 - Final products
 - Ingredients
 - Additives
- Drinking water
- Animal feed
- Cosmetics
- Medicines
- Packaging materials
- Utility articles

Analytical parameters

- Total plate counts of all kinds
 - Including organisms causing decay (such as yeasts and moulds, Lactobacillae, Clostridiae, Alicyclobacillus sp.)
 - Including indicator organisms (coliform bacteria, E. coli)
- Detection of pathogenic mi-



crobes and their toxins (such as Salmonellae, Listeriae, Staph. Aureus)

- Microscopic analyses
- Inhibitor tests
- Sterility tests
- Hygiene checks

Microbiology "on the spot"

We safeguard hygiene in your plant:

- Hygiene checks by sampling (contact method/smear method)
- Measurement of airborne-microbes
- Expert advice on preparing rules for optimizing hygiene
- Devising HACCP strategies.

Eurofins

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Microbiological consultancy

Besides the analysis itself our service includes interpreting the microbiological findings and making re-commendations. In addition to tests on the end products our analytical work also covers the checking and evaluation of "upstream" products (such as starting materials in food production)

Laboratory equipment

- Homogenizers
 - Stomacher
 - Ultraturrax

- Apparatus for determining water activity (a_w -Wert)
- Automatic pipetting devices
- Automatic sample dilutors
- Incubators
- Equipment for measuring air-bornemicrobes
- Class II safety work bench

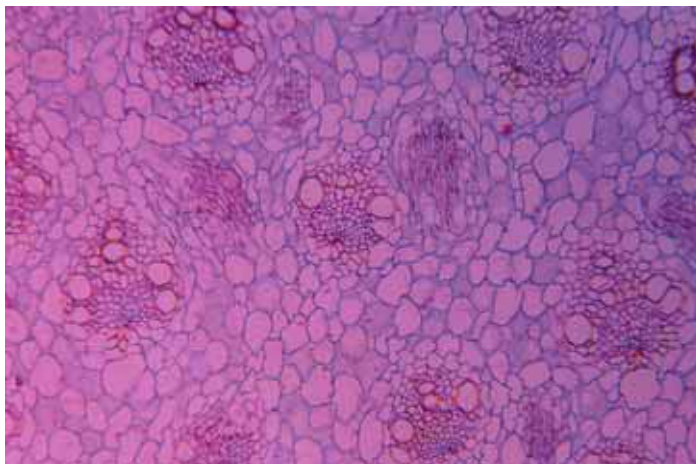
Methods

- Pursuant to Art. 64 LFGB (Food and Feed Law Act)
- PH. EUR. 2006 (European Pharmacopoeia)
- ICUMSA (International Commission for Uniform Methods of Sugar Analysis)

- IOCCC (International Office of Cocoa Chocolate and Sugar Confectionery)
- FDA (Food & Drug Administration)

Eurofins' qualities

- Approval pursuant to Art. 44 of the Law on the Prevention of Infection
- Continuous performance checking through internal quality management and regular participation in external proficiency testing and interlaboratory tests:
 - Food Examination Performance Assessment Scheme (FEPAS)
 - Milk Standard Service-Regional health offices in Germany-FDA (Food & Drug Administration)
- Auditing by our clients
- Approval for formal sample analysis according to §43 LFGB



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