



Eurofins GMO Analytics

# Reliable Detection and Identification of **Genetically** Modified Organisms

# The Challenge

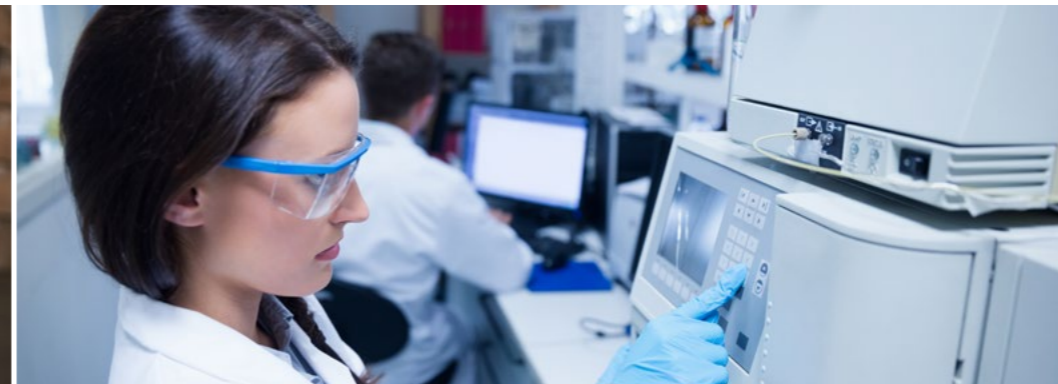
- The use of genetically modified organisms (GMOs) in food and feed is increasing worldwide.
- In many countries, legally regulated 0% tolerance or low tolerance limits apply to unauthorised GMOs and their content in food and feed.
- Food or feed consisting of, produced from, or containing GMOs are subject to labelling in many regions. Authorisations and labelling thresholds are regulated differently worldwide.
- To ensure the high quality of your products, a reliable compliance to quality standards along the entire value chain is crucial.
- The complexity of global supply chains requires an experienced partner with detailed knowledge of worldwide registration and cultivation situation of GMOs, as well as a comprehensive portfolio for reliable and rapid examinations on a globally uniform high quality level.

# The Eurofins Solution



## Comprehensive Screening, precise Identification and Quantification

- ✓ Fast, reliable results
- ✓ Worldwide high quality standard
- ✓ Individual consultation with GMO experts



# Your **Complete Solution** for all **GMO** and related **Aspects**



## Consultation

Through our continuous research and steady exchange with authorities and associations, we stay informed about current worldwide GMO approvals and cultivation status. We are actively involved in the development and definition of international (ISO) and national (§64 LFGB) standard methods. This is the basis upon which our experts offer competent consulting and practical solutions for your needs.



- Experienced team of experts with detailed knowledge of the current GMO situation
- Individual consultation on the evaluation and interpretation of the analytical results
- Creation of customer tailored analytical strategies and individual customer agreements



## Analytics

From screening to identification to quantification, we offer detection systems for all relevant GMOs. From our experience in all branches of the food and feed industry, we understand the individual conditions of your production and the complexity of your products. With more than 20 years of expertise, our labs are specialised in performing challenging GMO analyses and comply with the highest quality standards.



- Up-to-date and extensive portfolio of qualitative and quantitative analyses
- Highest quality standards, state-of-the-art equipment and optimised laboratory processes
- Same day and express service



## Global presence

The Eurofins GeneScan network offers an identical standard of analysis for meeting the highest demands in its partner laboratories on all continents. In this way, we guarantee consistent quality with minimal sample shipment efforts and the fastest way to the result.



- International GMO competence center in Freiburg, Germany
- Globally standardised test methods of the highest quality
- Minimal sample shipment effort and fastest results



# Eurofins **GMO Competence Center**

# Additional Services

## Method Development

Eurofins GeneScan develops methods for the regulated (GLP/GMP) and the non-regulated sectors, for the most diverse industries and products upon individual customer request. In addition to the development and validation of methods for GMO detection, we offer, among others, the development of high-throughput DNA extraction methods.

## Customer Focus

In collaboration with our customers, we develop individual analytical strategies that can be accessed worldwide from all Eurofins laboratories – a guarantee for speed and reliable, equally high quality.

## Committee Work

Eurofins GeneScan is an active member of relevant national and international committees and associations (e.g. Industry Association Food without Genetic Engineering (VLOG), Association of German Agricultural Analytic and Research Institutes (VDLUFA)) and is actively involved in method standardisation (e.g. DIN Standards Committee on Food and Agricultural Products (NAL), Genetically Modified Foods (NA 057-01-04 AA), Working Group S64 LFGB GMO-proof and Working Group S28b GenTG).

## Determination of Animal Species

Using species-specific PCR assays, DNA sequencing and ELISA antibody assays, native and exotic animal and fish species can be identified or excluded in fresh, processed and even highly processed products such as gelatin.

## Analysis of Residual DNA

Eurofins develops PCR systems for the identification of residual DNA which satisfy all the requirements of the regulatory authorities. As part of the authorisation of food enzymes, additives, flavours, dietary supplements and feed additives, the content of residual DNA for substances derived from genetically modified microorganisms (GMMOs) must be determined.

## Eurofins OnLine (EOL)

With Eurofins OnLine (EOL), you have all the relevant data for your samples quickly and easily available at your fingertips – anytime, anywhere: from online sample registration to the test report. The 24/7 access from your computer enables the download of current and previous test reports and offers a variety of export functions.



# Setting Standards

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Discover our customised GMO analytics.  
We will gladly advise you on convincing solutions.

**Eurofins GMO Analytics**  
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