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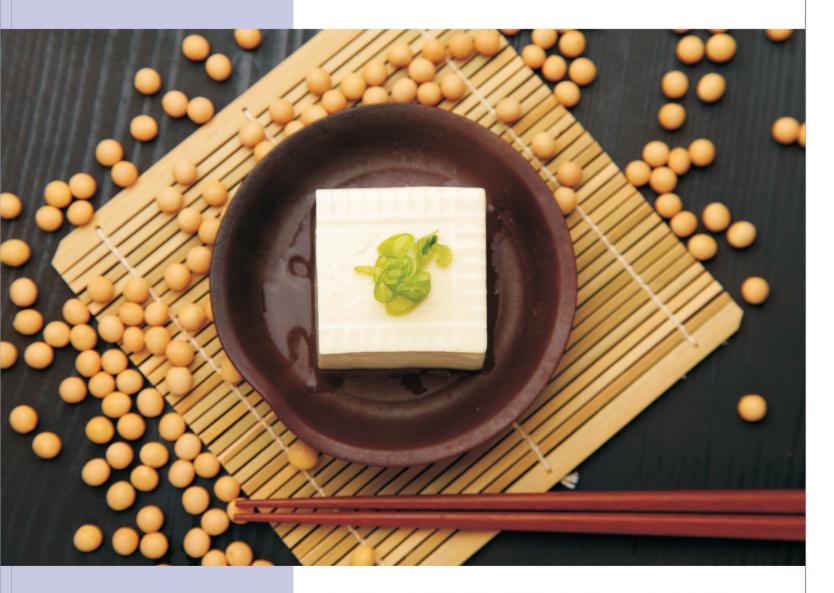
转基因生物检测

转基因生物(GMO)是指不通过配育和/或自然重组的方式改变遗传物质(DNA)的生物体(即植物、动物或微生物)。转基因(GM)生物或使用转基因生物制成的食品通常被称为转基因食品。

到目前为止，获欧盟批准的转基因食品和饲料共有**58**种。尽管实际市售的转基因食品产品数量非常有限，然而转基因饲料与之相反，市场体量相当可观。

目前全球有**64**个国家要求标识转基因食品，包括中国、澳大利亚、日本以及欧洲各国。为了保障消费者的知情权和选择权，欧盟立法规定，除非当GMO含量低于食品/饲料的0.9%，且属于外源性或技术上无法避免的情况，否则任何含有GMO或由GMO制成的转基因食品和饲料必须具有溯源性以及转基因标识。

我们的服务

秉承不断创新的精神，欧陆在转基因检测领域有着深厚的技术积累，是该领域的全球领军实验室。我们对全球GMO审批和种植有着深入的了解，可为您量身定制可靠的检测方法，从而使您能够快速制定决策、提升产品质量以及优化生产流程。欧陆的服务覆盖整条食品供应链：从种子到最终的食品或饲料产品，从农场到贸易，以及从原料供应、食品生产再到最终零售——严格聚焦客户是我们服务的关键所在。

专业性

- 欧陆全球转基因检测技术中心
- 负责开发分子生物学领域的转基因分析及其他检测方法
- 覆盖所有商业转基因产品的综合检测项目
- 获批多个非转基因鉴定项目的第三方实验室
- 为欧陆实验室以及全球试剂盒消费者提供试剂盒与试剂
- 配备先进仪器的现代化实验室
- 自动提取DNA
- ISO 17025检测服务认可
- ISO 9001认证
- GMP+认证
- 积极参与标准制定(§64 LFBG CEN TC 275/WG11；ISO/TC34 Wg7)
- 参与实验室间能力对照实验：FAPAS/GEMMA、ISTA、USDA/GIPSA
- 针对当前欧盟法规等提供分析和咨询服务

检测能力

我们承诺给予您优质的分析检测和客户服务。基于欧陆长期检测DNA的经验，尤其在DNA提取方法以及PCR/实时PCR检测方面，我们一直在优化自己的检测方法。

- 筛查：通过单次检测发现多种转基因。
- 鉴定：针对性检测少量或单个转基因事件(例如，检查是否存在未被批准的转基因)。
- 定量：定量聚合酶链反应可以帮助确定产品中的转基因含量是否高于既定阈值。

GMO TESTING

Genetically modified organisms (GMOs) can be defined as organisms (i.e. plants, animals or microorganisms) in which the genetic material (DNA) has been altered in a way that does not occur naturally by mating and/or natural recombination. Foods produced from or using genetically modified (GM) organisms are often referred to as GM foods.

To date, there are 58 GM foods and feeds authorized in the European Union (EU). The number of GM foods products actually available on shelves is very limited, whereas the situation is different when it comes to the GM feeds sector with a substantial market.

Presently 64 countries around the world, including China, Australia, Japan, and all of the countries in the EU, require GM foods to be labeled. In order to provide consumers with information and freedom of choice, the EU legislation imposes traceability and labelling obligations on any GM food and feed containing, consisting of, or produced from a GMO, except if the presence is below 0.9% of the food/feed and it is adventitious or technically unavoidable.

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Our Services

Eurofins is your experienced and innovative leading provider of analytical services and kits in the field of GMO testing. Our in-depth knowledge on global GMO approvals and planting is the basis for our portfolio of robust and reliable methods tailored to your needs, in order to enable you to make prompt decisions and to optimize your product quality and production process. Our service is all along the food supply chain: From the seed to the final food or feed product; from the farmer to traders, ingredient and food manufacturers and finally to the retailers – strict customer focus is the key to our service.

Expertise

- The Eurofins Global Competence Centre for GMO testing
- Responsible for the development of GMO analyses and other methods in the field of molecular biology
- Comprehensive portfolio of tests for all commercial GMOs
- Approved lab for multiple third party non-GMO verification programs
- Production site of kits and reagents for Eurofins labs and kit customers around the world
- Modern laboratory equipped with state of the art instruments
- Automated DNA extraction
- ISO 17025 accreditation for testing services
- ISO 9001 certified
- GMP+ certified
- Active in standardization (§64 LFBG CEN TC 275/WG11; ISO/TC34 WG7)
- Participation in ring trials: FAPAS/GEMMA, ISTA, USDA/GIPSA
- Analysis and consulting e.g. in compliance with current EU legislation

Portfolio

Analytical quality and customer service are our commitments. Based on our long standing experience in DNA testing – especially in DNA extraction methods and PCR/real-time PCR detection - we constantly optimize our method portfolio.

- Screening: Detection of many GMOs with one test.
- Identification: Specific detection of few or single GMO events (e.g. to check for the presence of non-authorized GMOs).
- Quantification: Quantitative PCR can help to determine if the GM content of a product is above or below a given threshold