

**Submission of information related to the detection and identification of living modified organisms
pursuant to paragraph 1 of decision CP-11/8
Submission by GERMANY**

Part I. Endorsement of submission

Name of Country/Organization: GERMANY

Name of Cartagena Protocol Focal point/ endorsing: Dr. Franz Mußotter

Date: 13 March 2026

Part II. Submission of information

In Germany, substantial expertise in the field of detection and identification of living modified organisms (LMO) has been established in more than 30 years of activities in LMO control. The control laboratories of the federal states carry out the official controls. In order to make the analyses as efficient as possible, the testing routines are constantly being further developed. Such methods are published by the § 28b GenTG and § 64 LFGB Working Groups which have the respective legal mandate in Germany. Next to these two groups, also the experts from the national reference laboratory for genetically modified organisms and of the official control laboratories develop methods for detection and identification of LMO. More recently, research activities also included method development using digital PCR and next-generation sequencing techniques. However, none of the new technologies is used in routine analyses in LMO control, yet.

Regarding notification 2026-010, Germany hereby provides a list of technical reference documents:

- **Technical reference documents regarding digital polymerase chain reaction**
 - Guidelines for the verification of methods using digital PCR, Working Group § 64 LFGB „GMO detection“ (2025)
https://www.bvl.bund.de/SharedDocs/Downloads/07_Untersuchungen/Guidelines_for_the_verification_of_methods_using_digital_PCR.html?nn=10418112
 - In-house validation of a droplet digital PCR system using a multifactorial experimental design, Weidner C. et al. (2025), <https://doi.org/10.1016/j.aca.2025.344172>
- **Technical reference documents regarding next-generation sequencing**
 - Reproducibility of next-generation-sequencing-based analysis of a CRISPR/Cas9 genome edited oil seed rape, Pallarz et al. (2023), <https://doi.org/10.1016/j.fochms.2023.100182>

However, some further technical reference documents with relevance to detection and identification of LMO are already published within the Biosafety Clearing-House, e.g. BCH-LAW-DE-47782, BCH-LAW-DE-113174, BCH-LAW-DE-113173, BCH-LAW-DE-113621, BCH-VLR-SCBD-281887, BCH-VLR-SCBD-281851, and BCH-VLR-SCBD-276740.