



Information regarding capacity and needs in the detection and identification of living modified organisms, including a list of laboratories and their specific activities

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In the Netherlands, the following laboratory is mostly involved in laboratory analyses to support official control activities regarding detection and identification of genetically modified organisms (GMOs):

RIKILT Wageningen University & Research

Rikilt acts as National Reference Laboratory according to Commission Implementing Regulation (EU) No 120/2014¹ to support the Community Reference Laboratory in the validation of methods for the detection and identification of GMOs authorised in the EU.

Capacity:

Rikilt routinely performs GMO screening and identification (quantification) analyses on the basis of broad screening.

Rikilt has the following methods validated and accredited:

- 31 methods for GMO elements
- 11 methods for GMO constructs (bridging two GMO elements)
- 64 methods for GMO events, of which 44 for (all) EU-authorised GMO events and 20 for EU-unauthorised GMO events, including 1 GM micro-organism
- 9 additional methods that have been partially validated
- 12 species-specific methods for the economically most relevant crops

Depending on the sample, the most applicable methods for screening are selected.

Activities:

Performance of GMO analyses in feed, and food to a lesser extent, materials

Ongoing method development in the field of GMO detection, identification and quantification.

- Method for routine use:
qPCR–screening, followed by GMO identification and, if applicable, quantification, including the identification of unauthorised GMOs.
- Upcoming methods: using next generation sequencing (NGS) for screening as well as the identification of (known and unknown) unauthorised GMOs.

Website: <https://www.wur.nl/en/Expertise-Services/Research-Institutes/rikilt.htm>

More information on Rikilt can also be found on the BCH website (record #102567):
<http://bch.cbd.int/database/record.shtml?documentid=102567>

¹ Commission Implementing Regulation (EU) No 120/2014; <http://eur-lex.europa.eu/legal-content/EN/ALL/?uri=CELEX%3A32014R0120>