

Deutsche Akkreditierungsstelle GmbH

Annex to the Accreditation Certificate D-PL-17111-01-00 according to ISO/IEC 17025:2005

Period of validity: 10.06.2013 to 09.06.2018

Date of issue: 26.06.2013

Holder of certificate:

Eurofins GeneScan GmbH
Engesserstraße 4, 79108 Freiburg

Tests in the fields:

biomolecular species identification and analysis for genetically modified organisms and derived products in food, feed, additives, dietary supplements, flavor, vegetable raw materials and seeds

Abbreviations used: see last page

The laboratory is permitted within the specified testing fields marked with */, without being required to inform and obtain prior approval from DAkkS:**

- *) the free choice of standard or equivalent test methods.**
- **) the modification, development and refinement of test methods.**

The listed test methods are exemplary. The laboratory maintains a current list of all test methods in a flexible scope of accreditation.

1 Biomolecular species identification and analysis for genetically modified organisms and derived products in food, feed, additives, dietary supplements, flavor, vegetable raw materials and seeds using qualitative nucleic acid based testing methods **

DIN EN ISO 24276 2006-05	Foodstuffs - Methods of analysis for the detection of genetically modified organisms and derived products - General requirements and definitions
DIN EN ISO 21569 2005-09	Foodstuffs - Methods of analysis for the detection of genetically modified organisms and derived products - Qualitative nucleic acid based methods
GSE-P-03.7 1999-08	Identification of corn species
GSE-P-05.38 2002-03	Modification specific detection of Liberty Link Corn
GSE-P-05.12 1998-08	Modification specific detection of BT 176 Corn
GSE-P-05.16 1999-08	Modification specific detection of Roundup Ready -Soybean
GSE-P-05.17 2000-02	Modification specific detection of YieldGard Corn
GSE-P-05.28 2001-02	Modification specific detection of StarLink Corn

2 Biomolecular species identification and analysis for genetically modified organisms and derived products in food, feed, additives, dietary supplements, flavor, vegetable raw materials and seeds using qualitative nucleic acid and fluorescence based testing methods **

GSE-P-08.10 2008-03	Detection of bovine DNA
GSE-P-08.11 2008-03	Detection of pig DNA
GSE-P-08.12 2008-03	Detection of chicken DNA
GSE-P-08.13 2008-03	Detection of turkey DNA

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GSE-P-09.15 2008-01	Event specific detection of NK603 Corn
GSE-P-09.16 2008-01	Event specific detection of MIR604 Corn
GSE-P-09.50 2010-04	Element specific detection of Cauliflower Mosaic Virus 35S promoter
GSE-P-09.50 2010-04	Element specific detection of <i>Agrobacterium tumefaciens</i> Nopaline Synthase-terminator
GSE-P-09.19 2008-01	Event specific detection of MON863 corn
GSE-P-09.20 2008-01	Event specific detection of Herculex Rootworm line DAS-59122-7
GSE-P-09.21 2008-01	Event specific detection of A2704-12 Soy
GSE-P-09.24 2008-03	Event specific detection of Bt63-Rice
GSE-P-09.72 2011-07	Identification of rape species
GSE-P-09.85 2012-09	Identification of soy species
GSE-P-09.37 2009-05	Element specific detection of 35S promoter of Cauliflower Mosaic Virus
GSE-P-09.46 2010-02	Identification of tobacco species
EFGA 407-01/02.49 2012-11	Evaluation of qualitative PCR

3 Biomolecular species identification and analysis for genetically modified organisms and derived products in food, feed, additives, dietary supplements, flavor, vegetable raw materials and seeds using quantitative nucleic acid and fluorescence based testing methods **

DIN EN ISO 21570 2006-02	Foodstuffs - Methods of analysis for the detection of genetically modified organisms and derived products - Quantitative nucleic acid based methods
GSE-P-07.58 2009-05	Soy event A2704-12 Soy (event specific)
GSE-P-07.55 2009-04	RR- Corn type GA21 (event specific)
GSE-P-07.87 2010-01	Roundup Ready-Rape RT73 (event specific)
GSE-P-07.51 2006-03	Quantification of 35S-Promoter in Cotton
EFGA 407-01/02.39 2012-11	Evaluation of quantitative PCR
EFGE 407 L02e 2012-11	Detectionsystems

4 Biomolecular species identification and analysis for genetically modified organisms and derived products in food, feed, additives and seeds using polymerase chain reaction (PCR) *

ASU L 23.01-22-1 1998-03	Detection of a genetic modification of soybeans
ASU L 00.00-31 2001-07	Screening for the detection of genetically modified DNA sequences in plant
Schweizerisches Lebensmittelbuch Kap. 52B 1.-1.0-4.1.5 1997-12	Swiss screening for the detection of genetically modified DNA sequences in plants

5 Further applicable documents: DNA extraction methods from food, feed, additives, dietary supplements, flavor, vegetable raw materials and seeds **

DIN EN ISO 21571 2005-05	Foodstuffs - Methods of analysis for the detection of genetically modified organisms and derived products - Nucleic acid extraction
EFGA 407-01/02.02 2012-05	DNA-extraktion CTAB/Qiagen
EFGA 407-01/02.04 2011-07	DNA-extraktion CTAB/Chloroform/Isopropanol
EFGA 407-01/02.05 2012-10	DNA-extraktion from tobacco - Modified Swiss Screening
EFGA 407-01/02.06 2011-11	DNA-extraktion from hexane soluble samples
EFGA 407-01/02.08 2012-05	DNA-extraktion from samples with high salt content
EFGA 407-01/02.10 2011-07	DNA-extraktion from chloroform soluble samples
EFGA 407-01/02.13 2011-07	DNA-extraktion from cotton
EFGA 407-01/02.46 2012-11	DNA-extraktion from honey
EFGA 407-01/02.52 2012-11	Standard Addition: DNA extraktion CTAB-MN-KF_K4
EFGE 407 L01e 2012-11	Common Types of Samples - Sample Preparation and DNA Extraction

Abbreviations used:

ASU	Official collection of § 64 LFGB
DIN	German Institute for Standardization
EFGA	Eurofins GeneScan (internal testing method)
EFGE	Eurofins GeneScan (additional QMH)
EN	European Standard
GSE	GeneScan Europe AG (internal testing method)
IEC	International Electrotechnical Commission
ISO	International Organization for Standardization