

Deutsche Akkreditierungsstelle GmbH

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

Period of validity: 18.05.2018 to 17.05.2023

Date of issue: 18.05.2018

Holder of certificate:

Eurofins GeneScan GmbH
Engesserstraße 4, 79108 Freiburg

Tests in the fields:

biomolecular analysis for species identification as well as identification of genetically modified organisms and their products in food, feed, additives, dietary supplements, flavor, plant materials and seeds;

selected biomolecular analysis for the detection of bacteria in feed;

selected microbiological analysis of feed

Abbreviations used: see last page

Within the given testing field marked with */, the testing laboratory is permitted, without being required to inform and obtain prior approval from DAkkS, the following:**

***) the free choice of standard or equivalent testing methods.**

*****) the modification, development and refinement of testing methods.**

The listed testing methods are exemplary.

The testing laboratory is permitted, without being required to inform and obtain prior approval from DAkkS, to use standards or equivalent testing methods listed here with different issue dates.

The testing laboratory maintains a current list of all testing methods within the flexible scope of accreditation.

1 Biomolecular analysis of food, feed, additives, dietary supplements, flavor, plant materials and seeds

1.1 DNA extraction from food, feed, additives, dietary supplements, flavor, plant materials and seeds **, **

3.2.5-SOP21484 V01 2017-07	DNA extraction gelatine
3.2.5-SOP22270 V01 2017-07	DNA extraction swab
3.2.5-SOP24880 V01 2017-12	DNA extraction: cotton fibres (BW)
3.2.5-SOP24884 V02 2018-01	DNA extraction: precipitation (F)
3.2.5-SOP24886 V01 2017-12	DNA extraction hexane (H) and hexane large scale (LG)
3.2.5-SOP24900 V02 2017-12	DNA extraction: honey and honey-pollen (HP)
3.2.5-SOP24906 V01 2017-12	DNA extraction: vacuum method (V)
3.2.5-SOP25072 V01 2017-12	DNA extraction: CTAB-KingFisher_K1
3.2.5-SOP25074 V01 2017-12	DNA extraction: SDS-King Fisher_K1

1.2 Qualitative species identification as well as genetically modified organisms and their products in food, feed, additives, dietary supplements, flavor, plant materials and seeds using polymerase chain reaction (PCR) **, **

EFGT 05.012 1998-08	Modification-specific detection of BT 176-corn (GMOIdent Maximizer™ Bt176 Corn, Eurofins GeneScan Technologies GmbH)
EFGT 05.028 2001-02	Modification-specific detection of StarLink-corn (GMOIdent StarLink™ Corn, Eurofins GeneScan Technologies GmbH)

EFGT 05.053 2005-06	Modification-specific detection of SeedLink-rape (GMOIdent Mini-Kit SeedLink™ Canola, Eurofins GeneScan Technologies GmbH)
GS-P-05.064 2008-03	Event-specific detection of MON863-corn
GS-P-05.065 2008-03	Event-specific detection of NK603-corn
GS-P-05.069 2010-07	Modification-specific detection of 35S-hpt (Kefeng 6 u. a. GVOs)

1.3 Qualitative and quantitative species identification as well as genetically modified organisms and their products in food, feed, additives, dietary supplements, flavor, plant materials and seeds using Real-time PCR **

ASU G 30.40-16 2017-10	Detection of nos-genes from Ti-plasmids of Agrobacteria in plant material using real-time PCR - element-specific method
ASU G 30.40-17 2017-10	Detection of cauliflower mosaic virus-DNA (ORF V) in plant material using real-time PCR - element-specific method
CRL-VL-03/05VP 2007-06	Event-specific method for the quantitation of maize 59122 using real-time PCR
CRLVL-04/07VP 2010-03	Event-specific Method for the Quantification of Soybean Event DP-356043-5 Using Real-time PCR
EFGT 07.042 2003-12	Quantification of Roundup Ready Soy modification in soybean (GMOQuant Kit Roundup Ready™ Soy, Eurofins GeneScan Technologies GmbH)
EFGT 07.106 2016-01	Quantification of AgroBorder II sequence in soy (GMOQuant Agroborder II Screen Soy, Eurofins GeneScan Technologies GmbH)
EFGT 08.020 2013-02	Species detection horse (DNAAnimal Ident Horse IPC, Eurofins GeneScan Technologies GmbH)
EFGT 08.035 2014-12	Detection of ruminant DNA (DNAAnimal Screen Ruminant IPC, Eurofins GeneScan Technologies GmbH)

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EFGT 08.041 2016-10	Species detection pork (DNAAnimal Ident Pork IPC, Eurofins GeneScan Technologies GmbH)
EFGT 09.015 2008-01	Event-specific detection of NK603 corn (GMOIdent RT IPC Event NK603 Corn, Eurofins GeneScan Technologies GmbH)
EFGT 09.016 2008-01	Event-specific detection of MIR604 corn (GMOIdent RT IPC Event MIR604 Corn, Eurofins GeneScan Technologies GmbH)
EFGT 09.033 2009-01	Event-specific detection of MON89788 soy (GMOIdent RT IPC Event MON89788 Soy, Eurofins GeneScan Technologies GmbH)
EFGT 09.034 2009-06	Modification-specific detection of Roundup Ready-Soy (GMOIdent RT IPC RoundupReady™ Soy, Eurofins GeneScan Technologies GmbH)
EFGT 09.053 2010-05	Event-specific detection of DP098140-6 corn (GMOIdent RT IPC Event DP098140-6 Corn, Eurofins GeneScan Technologies GmbH)
EFGT 09.115 2015-07	Event-specific detection of A2704-12 soy (GMOIdent RT IPC Event A2704-12 Soy, Eurofins GeneScan Technologies GmbH)
EFGT 10.002 2016-07	Quantification of soy content (SpeciesQuant Botanical Impurity Soy, Eurofins GeneScan Technologies GmbH)
GS-P-07.051 2006-03	Quantification of 35S-promotor in cotton
GS-P-09.095 2014-03	Modification-specific detection of transition Ubiquitin promotor - gat4621 gene
GS-P-09.102 2016-07	Species detection of FMV

1.4 Qualitative and quantitative species identification as well as genetically modified organisms and their products in food, feed, additives, dietary supplements, flavor, plant materials and seeds using multiplex PCR **

EFGT 09.076 2016-10	Element-specific detections of Agrobacteria tumefaciens Nopaline Synthase-terminator, Tn5 E. coli Neomycin phosphotransferase gene, CP4-EPSPS modification and S. viridochromogenes modified pat-gene (pat(syn)-gene) (GMOScreen RT IPC PVGT/NOS/NPTII/PAT, Eurofins GeneScan Technologies GmbH)
EFGT 09.126 2017-06	Element-specific detections of cauliflower mosaic virus 35S [~] promotor, Agrobacteria tumefaciens Nopaline Synthase-terminator and figwort mosaic virus 34S promotor (GMOScreen RT IPC 35S/NOS/FMV, Eurofins GeneScan Technologies GmbH)
GS-P-09.092 2014-04	Modification-specific detection of transition SAMS promotor - as gene and event- specific detection of CV127
GS-P-09.118 2015-10	Detection of Agroborder I and Agroborder II sequences

1.5 Qualitative and quantitative species identification as well as genetically modified organisms and their products in food, feed, plant materials and seeds using digital PCR

GS-P-17.001 2016-06	Event-specific quantification of MON87701 soy using ddPCR
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1.6 Detection of bacteria in feed using polymerase chain reaction (PCR)

EFGT 02.214 2014-09	Salmonella spp. (GS-P-02.214, BACGene Salmonella spp., Eurofins GeneScan Technologies GmbH)
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2 Selected microbiological analysis of feed

DIN EN ISO 6579-1 2017-07	Microbiology of the food chain - Horizontal method for the detection, enumeration and serotyping of Salmonella - Part 1: Detection of Salmonella spp. (Deviation: <i>Application only on feed, selective enrichment only in Rappaport-Vassiliadis bouillon</i>)
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Abbreviations used:

ASU	Official collection of § 64 LFGB § 64 LFGB or § 28b GenTG
CRL	Community Reference Laboratory
DIN	German Institute for Standardization
EFGT	Eurofins GeneScan Technologies GmbH, Manufacturer of Kits
EN	European Standard
GS	internal testing method of Eurofins GeneScan GmbH
IEC	International Electrotechnical Commission
ISO	International Organization for Standardization
SOP	Standard Operating Procedure/internal testing method of Eurofins GeneScan GmbH