DAkkS
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Annex to the Accreditation Certificate D-PL-19128-01-00 according to DIN EN ISO/IEC 17025:2018

Valid from: **13.12.2022**

Date of issue: 25.07.2023

Holder of accreditation certificate:

GeneCon International GmbH
Grengracht 39, 52499 Baesweiler

The testing laboratory meets the requirements of DIN EN ISO/IEC 17025:2018 to carry out the conformity assessment activities listed in this annex. The testing laboratory meets additional legal and normative requirements, if applicable, including those in relevant sectoral schemes, provided that these are explicitly confirmed below.

The management system requirements of DIN EN ISO/IEC 17025 are written in the language relevant to the operations of testing laboratories and confirm generally with the principles of DIN EN ISO 9001.

Tests in the fields:

Molecular biological analysis of foodstuffs, feedstuffs, plant materials and seeds; immunological analysis of feedstuffs and foodstuffs

For the test fields marked with */, the testing laboratory is permitted to do the following without obtaining prior notification and consent from DAkkS**

***) Freely select standard test methods or equivalent test methods**

****) Modify test methods and develop new test methods**

The test methods listed are given by way of example.

This certificate annex is only valid together with the written accreditation certificate and reflects the status as indicated by the date of issue. The current status of any given scope of accreditation can be found in the directory of accredited bodies maintained by Deutsche Akkreditierungsstelle GmbH at https://www.dakks.de.

The testing laboratory is permitted to apply the listed standardised or equivalent test methods with different versions of the standards without obtaining prior notification and consent from DAkkS.

The testing laboratory has an up-to-date list of all test methods within the flexible scope of accreditation.

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1 Qualitative molecular biological methods

1.1 Detection of genetically modified organisms

1.1.1 Detection of genetically modified organisms by real-time PCR in foodstuffs, feedstuffs and seeds **

ASU L 00.00-31 2001-07 Corrigendum 2002-12	Analysis of foodstuffs – Screening methods for the detection of genetically modified DNA sequences in foodstuffs by the detection of DNA sequences frequently occurring in genetically modified organisms; Corrigendum (Deviation: *Use of the 35 S CaMV promoter and adaptation to real-time PCR conditions;* *Use of the NOS terminator and adaptation to real-time PCR conditions;* *Matrices: Also for feedstuffs, plant materials and seeds*)
ASU L 00.00-118 2014-02	Analysis of foodstuffs – Methods of analysis for the detection of genetically modified organisms and derived products in foodstuffs– Qualitative nucleic acid based methods (Deviation: *Also for seeds and feedstuffs*)
ASU L 00.00-122 2008-06	Analysis of foodstuffs – Detection of a specific DNA sequence, frequently used in genetically modified organisms (GMOs), from the cauliflower mosaic virus (CaMV 35S promoter, P35S) and from Agrobacterium tumefaciens (T-nos) in foodstuffs – Screening method (Deviation: *Use of the 35 S CaMV promoter and adaptation to real-time PCR conditions;* *Use of the NOS terminator and adaptation to real-time PCR conditions;* *Matrices: Also for feedstuffs, plant materials and seeds*)
ASU L 00.00-124 2008-12	Analysis of foodstuffs – Detection of a specific DNA sequence, frequently used in genetically modified organisms (GMOs), from the bar gene of Streptomyces hygroscopicus in foodstuffs – Screening method (Deviation: *Also for seeds and feedstuffs*)

ASU L 00.00-148 2014-02	Analysis of foodstuffs – Detection of a DNA sequence of the FMV promoter (pFMV) in foodstuffs using real-time PCR – Element-specific method (Deviation: *Also for feedstuffs, plant materials and seeds*)
ASU L 00.00-154 2014-08 Corrigendum 2015-06	Analysis of foodstuffs – Detection of CTP2-CP4-EPSPS, pat and bar sequences in foodstuffs using triplex real-time PCR – Construct-specific and element-specific methods (Deviation: *Here single-real-time PCR;* *Matrices: Also for feedstuffs, plant materials and seeds*)
ASU L 23.4.03-1 2010-09	Analysis of foodstuffs – Construct-specific real-time PCR method for the detection of a genetic modification in linseed and linseed products (Deviation: *Application in foodstuffs, feedstuffs and seeds*)
GCI PCR 06 2013-01	Screening method for the detection of genetically modified plant DNA containing the 35S CaMV terminator with real-time PCR in foodstuffs, feedstuffs, plant materials and seeds
GCI PCR 12 2014-09	Event-specific detection of the genetically modified rapeseed event DP-073496-4 with real-time PCR in foodstuffs, feedstuffs, plant materials and seeds
GCI PCR 14 2014-09	Event-specific detection of the genetically modified soybean MON87708 with real-time PCR in foodstuffs, seeds, feedstuffs
GCI PCR 23 2014-09	Event-specific detection of genetically modified soybean MON87751 with real-time PCR in foodstuffs, seeds, feedstuffs
GCI PCR 25 2013-01	Construct-specific method for the detection of the CP4-EPSPS sequence for screening for components of genetically modified organisms with real-time PCR in foodstuffs, feedstuffs, plant materials and seeds
GCI PCR 27 2013-01	Construct-specific method for the detection of the cry 1Ab sequence for the screening of components of genetically modified organisms with real-time PCR in seeds, foodstuffs and feedstuffs
GCI PCR 31 2013-01	Construct-specific method for the detection of DNA of the GM maize line NK 603 with real-time PCR in seeds, foodstuffs and feedstuffs

GCI PCR 49 2013-01	Screening method for the simultaneous detection of two specific DNA sequences, frequently used in genetically modified organisms (GMOs), from the 35 S CaMV promoter (p35S) and the NOS terminator (tNOS) with real-time PCR – Multiplex method – In seeds, food and feed
GCI PCR 53 2013-01	Screening method for the detection of the DNA sequence from the SAMS gene used in the genetically modified GM soybean lines DP-305423-1 and DP-356043-5 by real-time PCR in seeds, foodstuffs and feedstuffs
GCI PCR 55 2013-01	Screening method for the simultaneous detection of two specific DNA sequences, frequently used in genetically modified organisms (GMOs), from the 35 S CaMV promoter (p35S) and the 34 S FMV promoter (pFMV) with real-time PCR – Multiplex method – In seeds, foodstuffs and feedstuffs
GCI PCR 66 2013-01	Construct-specific method for the detection of DNA of the GM maize line DP-98140-6 with real-time PCR in seeds, foodstuffs and feedstuffs

1.1.2 Detection of genetically modified organisms using real-time PCR in plant materials **

ASU L 00.00-31 2001-07 Corrigendum 2002-12	Analysis of foodstuffs – Screening methods for the detection of genetically modified DNA sequences in foodstuffs by the detection of DNA sequences frequently occurring in genetically modified organisms; Corrigendum (Deviation: *Use of the 35 S CaMV promoter and adaptation to real-time PCR conditions;* *Use of the NOS terminator and adaptation to real-time PCR conditions;* *Matrices: Also for feedstuffs, plant materials and seeds*)

ASU L 00.00-122 2008-06	Analysis of foodstuffs – Detection of a specific DNA sequence, frequently used in genetically modified organisms (GMOs), from the cauliflower mosaic virus (CaMV 35S promoter, P35S) and from Agrobacterium tumefaciens (T-nos) in foodstuffs – Screening method (Deviation: *Use of the 35 S CaMV promoter and adaptation to real-time PCR conditions;* *Use of the NOS terminator and adaptation to real-time PCR conditions;* *Matrices: Also for feedstuffs, plant materials and seeds*)
ASU L 00.00-148 2014-02	Analysis of foodstuffs – Detection of a DNA sequence of the FMV promoter (pFMV) in foodstuffs using real-time PCR – Element-specific method (Deviation: *Also for feedstuffs, plant materials and seeds*)
ASU L 00.00-154 2014-08 Corrigendum 2015-06	Analysis of foodstuffs – Detection of CTP2-CP4-EPSPS, pat and bar sequences in foodstuffs using triplex real-time PCR – Construct-specific and element-specific methods (Deviation: *Here single-real-time PCR;* *Matrices: Also for feedstuffs, plant materials and seeds*)
GCI PCR 12 2014-09	Event-specific detection of the genetically modified rapeseed event DP-073496-4 with real-time PCR in foodstuffs, feedstuffs, plant materials and seeds
GCI PCR 25 2013-01	Construct-specific method for the detection of the CP4-EPSPS sequence for screening for components of genetically modified organisms with real-time PCR in foodstuffs, feedstuffs, plant materials and seeds

1.2 Detection of animal species and plant varieties

1.2.1 Detection of sequences specific to animal species and plant varieties and other naturally occurring sequences using real-time PCR in foodstuffs **

ASU L 00.00-118 2014-02	Analysis of foodstuffs – Methods of analysis for the detection of genetically modified organisms and derived products in foodstuffs– Qualitative nucleic acid based methods (Deviation: *Also for seeds and feedstuffs;* *also detection of plant DNA, "plant" gene (non-coding chloroplast region)*)
ASU L 08.00-56 2014-08	Analysis of foodstuffs – Detection of a specific DNA sequence from celery (Apium graveolens) in cooked sausages by real-time PCR (Deviation: *Adaptation to foodstuffs*)

ASU L 08.00-58(V) 2011-06	Analysis of foodstuffs – Detection of a specific DNA sequence from lupin (Lupinus spp.) in cooked sausages by real-time PCR (Deviation: *Adaptation to foodstuffs*)
ASU L 08.00-59 2013-01	Analysis of foodstuffs – Detection and determination of mustard (Sinapis alba) and soy (Glycine max) in cooked sausages by real-time PCR (Deviation: *Also in seeds and feedstuffs*)
ASU L 18.00-19 2014-08	Analysis of foodstuffs – Detection and determination of sesame (Sesamum indicum) in rice and wheat biscuits and in gravy powder by real-time PCR (Deviation: *Adaptation to foodstuffs*)
ASU L 18.00-20 2014-08	Analysis of foodstuffs – Detection and determination of almond (Prunus dulcis) in rice and wheat biscuits and in gravy powder by real-time PCR (Deviation: *Adaptation to foodstuffs*)
ASU L 44.00-8 2010-01	Analysis of foodstuffs – Detection of a specific DNA sequence from hazelnut (Corylus avellana) in chocolate by real-time PCR (Deviation: *Adaptation to foodstuffs*)
ASU L 44.00-11 2013-01	Analysis of foodstuffs – Detection of a specific DNA sequence from peanut (Arachis hypogaea) in chocolate by real-time PCR (Deviation: *Adaptation to foodstuffs*)
ASU L 08.00-62 2016-03	Analysis of foodstuffs – Detection of bovine, porcine, ovine and equine species in sausages by multiplex real-time PCR (Deviation: *Adaptation to horse as single-real-time PCR*)
SureFood® ALLERGEN ID Gluten R-Biopharm AG Article no. S3106 2009-08	Qualitative detection of DNA from grains containing gluten: wheat, barley, rye, oats, spelt and kamut.
SureFood® ALLERGEN ID Fish R-Biopharm AG Article no. S3110 2009-08	Qualitative DNA detection for fish DNA (Here: *In foodstuffs*)
SureFood® ALLERGEN ID Molluscs R-Biopharm AG Article no. S3113	Qualitative detection of molluscs (snails, mussels, cephalopods) – DNA (Here: *In foodstuffs*)

2009-08	
GCI PCR 04 2013-01	Specific method for the detection of maize DNA – "zein" gene by real-time PCR in seeds, foodstuffs and feedstuffs
GCI PCR 07 2013-01	Specific method for the detection of components from rapeseed DNA by real-time PCR in seeds, foodstuffs and feedstuffs
GCI PCR 17 2013-01	Detection of chicken-specific DNA sequences in foodstuffs and feedstuffs by real-time PCR
GCI PCR 18 2013-01	Detection of turkey-specific DNA sequences in foodstuffs and feedstuffs by real-time PCR
GCI PCR 37 2013-01	Detection of specific mammalian and poultry DNA sequence with real-time PCR in foodstuffs and feedstuffs
GCI PCR 39 2013-01	Detection of a specific DNA sequence from walnut and pecan with real-time PCR in foodstuffs
GCI PCR 41 2013-01	Detection of a specific DNA sequence from chickpea with real-time PCR in foodstuffs
GCI PCR 45 2013-01	Detection of a specific DNA sequence from pistachio with real-time in foodstuffs
GCI PCR 50 2013-01	Detection of goat-specific DNA sequences by real-time PCR in foodstuffs
GCI PCR 51 2013-01	Detection of sheep-specific DNA sequences by real-time PCR in foodstuffs

1.2.2 Detection of sequences specific to animal species and plant varieties and other naturally occurring sequences using real-time PCR in seeds **

ASU L 00.00-118 2014-02	Analysis of foodstuffs – Methods of analysis for the detection of genetically modified organisms and derived products in foodstuffs– Qualitative nucleic acid based methods (Deviation: *Also for seeds and feedstuffs;* *also detection of plant DNA, "plant" gene (non-coding chloroplast region*))

ASU L 08.00-59 2013-01	Analysis of foodstuffs – Detection and determination of mustard (Sinapis alba) and soy (Glycine max) in cooked sausages by real-time PCR (Deviation: *Also in seeds and feedstuffs*)
GCI PCR 07 2013-01	Specific method for the detection of components from rapeseed DNA by real-time PCR in seeds, foodstuffs and feedstuffs

1.2.3 Detection of sequences specific to animal species and plant varieties and other naturally occurring sequences using real-time PCR in feedstuffs **

ASU L 00.00-118 2014-02	Analysis of foodstuffs – Methods of analysis for the detection of genetically modified organisms and derived products in foodstuffs– Qualitative nucleic acid based methods (Deviation: *Also for seeds and feedstuffs;* *also detection of plant DNA, "plant" gene (non-coding chloroplast region)*)
ASU L 08.00-59 2013-01	Analysis of foodstuffs – Detection and determination of mustard (Sinapis alba) and soy (Glycine max) in cooked sausages by real-time PCR (Deviation: *Also in seeds and feedstuffs*)
GCI PCR 07 2013-01	Specific method for the detection of components from rapeseed DNA by real-time PCR in seeds, foodstuffs and feedstuffs
GCI PCR 17 2013-01	Detection of chicken-specific DNA sequences in foodstuffs and feedstuffs by real-time PCR
GCI PCR 18 2013-01	Detection of turkey-specific DNA sequences in foodstuffs and feedstuffs by real-time PCR
GCI PCR 37 2013-01	Detection of specific mammalian and poultry DNA sequence with real-time PCR in foodstuffs and feedstuffs

2 Qualitative detection of food allergens by real-time PCR in foodstuffs

SureFood® ALLERGEN QUANT Gluten R-Biopharm AG Article no. S3206 2011-03	Qualitative determination of DNA from cereals containing gluten such as wheat, barley, rye, oats, spelt and kamut in food samples by real-time PCR

3 Qualitative detection of food allergens by ELISA in foodstuffs and feedstuffs*

Veratox for Lupine Allergen Neogen Food Safety Diagnostics Item no. 8500 2014-09	Qualitative method for the detection of lupine proteins in foodstuffs and feedstuffs by ELISA test
Veratox for Soy Allergen Neogen Food Safety Diagnostics Item no. 8410 2014-09	Qualitative method for the detection of soy proteins in foodstuffs and feedstuffs by ELISA test
Veratox for Gliadin R5 Neogen Food Safety Diagnostics Item no. 8510 2014-09	Qualitative method for the specific detection of gliadin (gluten) in foodstuffs and feedstuffs by ELISA test
Veratox for Crustacea Allergen Neogen Food Safety Diagnostics Item no. 8520 2012-03	Qualitative method for the specific detection of crustacean (Crustacea) proteins in foodstuffs and feedstuffs by ELISA test
Ridascreen Fast Milk R-Biopharm AG Item no. R4652 2011-07	Qualitative method for the specific detection of milk proteins in foodstuffs and feedstuffs by ELISA test

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Abbreviations used:

ASU	Amtliche Sammlung von Untersuchungsverfahren (Official Collection of Test Methods) on the basis of § 64 LFGB (German Food and Feed Act)
GCI	In-house method of GeneCon International GmbH
DIN	Deutsches Institut für Normung e. V. (German Institute for Standardization)
DNA	Deoxyribonucleic acid
ELISA	Enzyme-linked immunosorbent assay (antibody-based detection method)
EN	European standard
IEC	International Electrotechnical Commission
ISO	International Organization for Standardization
PCR	Polymerase chain reaction
LFGB	Lebensmittel-, Bedarfsgegenstände- und Futtermittel-Gesetzbuch (German Food and Feed Act)
EURL GMFF	European Union Reference Laboratory for GM Food and Feed
GM	Genetically modified