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Freiburg, 2024-08-12

Certificate No.: 296967-00569498-1

EFG Order No.: **EUGSFG-00279718** EFG Sample No.: **730-2024-00569498**
 Date of Order: 2024-07-31 Sample received: 2024-08-08

Sample

Sample matrix: soybeans

¹ Sample description: Sample#2: Organic soybean from Organic Fair Trade Sisaket Co., Ltd

¹ Your Sample Code: Number of sample bag/Sample number:
 CERES-TH-2024-011
 Bag no. 65145010
 Project/Company/Farm/Field:
 Northern Food complex Co., Ltd

Gross weight / volume: 538 g

Homogenized Amount: 533 g

¹: This information was supplied by the customer. Data supplied by the customer can influence the validity of test results.**Examination Order: PGSSH SoyScreen HTX**

Sample Weight	Sample preparation
2 x 2 g	3.2.4-SOP24133 (V03), GSD: 5524421001 (2023-06), 3.2.5.2-SOP24991 (V03)

Test	Method (Version)	Result	mLOD	pLOQ	Priority	Start of Analysis	End of Analysis
GS005 35S promoter	5421227102 (2023-03)	not detected	0,01%	*	Standard	2024-08-09	2024-08-12
GS015 event 305423 soybean	5421227104 (2023-03)	not detected	0,01%	*	Standard	2024-08-09	2024-08-12
GS01U event CV127rec soybean	5421227104 (2023-03)	not detected	0,01%	*	Standard	2024-08-09	2024-08-12
GSAB2 AgroBorder II	5421227102 (2023-03)	not detected	0,01%	*	Standard	2024-08-09	2024-08-12
GS125 NOS terminator	5421227102 (2023-03)	not detected	0,01%	*	Standard	2024-08-09	2024-08-12
GS04U CsVMV/pat(syn) modification	5421227104 (2023-03)	not detected	0,01%	*	Standard	2024-08-09	2024-08-12

Geschäftsführer:
 Tobias Roos

Hypovereinsbank
 BLZ 207 300 17 Konto-Nr. 700 000 0350
 IBAN DE72 2073 0017 7000 0003 50
 SWIFT/BIC HYVEDEMM17

Handelsregister:
 Amtsgericht Freiburg HRB 6771
 Ust.-Ident.-Nr. DE 161004043



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mLOD: detection limit of the PCR method, determined within the context of the validation. The amount of target DNA extracted from processed samples like starch, oil or additives may be insufficient for the mLOD to be applicable to this sample. In case of highly processed products when no target sequences were detected, it cannot be excluded that no DNA or no amplifiable DNA could be extracted. In this case we recommend to perform suitable species detection testing (e.g. detection of maize, soy, rape, etc. DNA) or a universal DNA detection (e.g. detection of plant or animal DNA). In addition, the size of the laboratory sample can also influence the reliability of the results. In a laboratory sample of raw materials for which no genetically modified DNA sequences were detected, the GMO content is below 0.1 % with a confidence level of 95 % only if the laboratory sample contains at least 3000 grains / seeds.

pLOQ: practical limit of quantification.

The measurement uncertainty is provided as +/- behind the result and represents the expanded measurement uncertainty (coverage factor is 2, level of confidence is 95 %), calculated on the basis of validation data.

* : not available; n.q.: not quantifiable; cp: copies

The testing procedures are based on the standards DIN EN ISO 24276:2013-10, 21571:2013-08, 21569:2013-08 (without appendices).

Result 35S promoter: 35S promoter DNA was not detected.

Comment: The sample does not contain transgenic DNA sequences which are characteristic for the 35S promoter of the Cauliflower Mosaic Virus (CaMV), or its portion is below the detection limit of the test. This target sequence is commonly engineered in genetically modified plants. In the case of raw meal the limit of detection of genetically modified DNA is 0.01%.

The analysis was done using qualitative Real-time PCR. Gold Standard Diagnostics, 5421227102, GMOScreen RT 35S/NOS/ABII IPC (NR)

Result event 305423 soybean: DNA from TREUS™ (DP-305423-1) soybean was not detected.

Comment: The sample does not contain transgenic DNA sequences which are characteristic for genetically modified TREUS™ (DP-305423-1) soybean, or its portion is below the detection limit of the test. In the case of raw materials the limit of detection of genetically modified DNA is 0.01%.

The analysis was done using qualitative Real-time PCR. Gold Standard Diagnostics, 5421227104, GMOScreen RT IPC (NR) Soy CsVMV/CV127/event DP305423-1

Result event CV127rec soybean: CV127 soybean was not detected.

Comment: The sample does not contain transgenic DNA sequences which are characteristic for CV127 soybean (present e.g. in event127 (Cultivance™, BPS-CV127-9) soybean). In the case of raw materials the limit of detection of genetically modified DNA is 0.01%.

The analysis was done using qualitative Real-time PCR. Gold Standard Diagnostics, 5421227104, GMOScreen RT IPC (NR) Soy CsVMV/CV127/event DP305423-1

Result AgroBorder II: AgroBorder II DNA was not detected.

Comment: The sample does not contain transgenic DNA sequences which are characteristic for AgroBorder II DNA (present e.g. in MON89788 soy (MON-89788-1), MON87701 soy (MON-87701-2), MON87705 Soja (MON-87705-6), MON87708 Soja (MON-87708-9), MON87769 (MON-87769-7) and MON87751 (MON-87751-7)), or the portion is below the detection limit of the test. In the case of raw materials the limit of detection of genetically modified DNA is 0.01%.

The analysis was done using qualitative Real-time PCR. Gold Standard Diagnostics, 5421227102, GMOScreen RT 35S/NOS/ABII IPC (NR)

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Result NOS terminator: NOS terminator DNA was not detected.

Comment: The sample does not contain transgenic DNA sequences which are characteristic for the NOS terminator element of *Agrobacterium tumefaciens* or the portion is below the detection limit of the test. This target sequence is commonly engineered in genetically modified plants. In the case of raw meal the limit of detection of genetically modified DNA is 0.01%.

The analysis was done using qualitative Real-time PCR. Gold Standard Diagnostics, 5421227102, GMOScreen RT 35S/NOS/ABII IPC (NR)

Result CsVMV/pat(syn) modification: the combination of the genetic elements CsVMV-promoter/pat(syn)-gene was not detected.

Comment: The sample does not contain transgenic DNA sequences which are characteristic for the combination of the genetic elements CsVMV-promoter/pat(syn)-gene (present e.g. in DAS-44406-6-, DAS-81419-2-, DAS-68416-4-Soybean), or the portion is below the detection limit of the test. In the case of raw materials the limit of detection of genetically modified DNA is 0.01%.

The analysis was done using qualitative Real-time PCR. Gold Standard Diagnostics, 5421227104, GMOScreen RT IPC (NR) Soy CsVMV/CV127/event DP305423-1



Herr Dr. Francesco Pinosa (Head of Customer Service)