

PRODUCT INFORMATION SHEET

**AgroBorder I, AgroBorder II, CTP2:CP4 EPSPS, nptII, synPAT,
p-FMV / Potato + GMO-Potato Amflora (EH92-527-1),
Rape Seed + GMO-Rape Seed / Canola (DP73496) and
Sugar Beet + GMO-Sugar Beet (H7-1)**

PT originated REFERENCE MATERIAL (RM)

Description of the RM

Name / Material of related PT	DLA ptGMS2 (2025) GMO-Screening II: 5 Samples with positive/negative amounts of AgroBorder I, AgroBorder II, CTP2:CP4 EPSPS, nptII, synPAT, p-FMV / Potato + GMO-Potato Amflora (EH92-527-1), Rape Seed + GMO-Rape Seed / Canola (DP73496) and Sugar Beet + GMO-Sugar Beet (H7-1)
Identifier / LOT	RM 2025-GMS2 Set
Expiry date	February 2027
Matrix	See tables
Physical description	Powder
Packaging / weight	Sealed foile pouches / 5 x 10 g
Storage conditions	2-10°C, long term 2-10°C (dry and dark)
Name and address manufacturer	DLA - Proficiency Tests GmbH Hauptstr. 80, 23845 Oering, Germany Tel. ++49-(0)4532-9183358, Fax. ++49(0)4102-9944976 eMail. pt@dla-lvu.de, website. www.dla-lvu.de

Composition of Material

DLA-Sample	Ingredients (per 100 g)	GMO-Elements *
1	Soya flour, European Supplier (92 g) Ingredients: Soya flour toasted Nutrients per 100 g: Protein 37 g Potato powder (8,2 g) Ingredients: Potatoes , E471, E304, E223, E100 nutrients per 100 g: Fat 0,6 g, Carbohydrates 76 g, Protein 8,3 g Amflora EH92-527-1 (0,15 g) Reference material: 100% GMO-Potato	— — gbss, p-NOS, nptII, t-NOS, AgroBorder I
2	Soya flour, European Supplier (90 g) Ingredients: Soya flour toasted Nutrients per 100 g: Protein 37 g Sugar beet molasses (9,8 g) Ingredients: Sugar beet molasses H7-1 Sugar beet (0,49 g) Reference material: 100% GMO-Sugar beet	— — CTP2:CP4 EPSPS, p-FMV, AgroBorder II
3	Soya flour, European Supplier (87 g) Ingredients: Soya flour toasted Nutrients per 100 g: Protein 37 g	— —

DLA-Sample	Ingredients (per 100 g)	GMO-Elements *
	Sugar beet molasses (13 g) Ingredients: Sugar beet molasses	
4	Soya flour, European Supplier (80 g) Ingredients: Soya flour toasted Nutrients per 100 g: Protein 37 g Potato powder (20 g) Ingredients: Potatoes , E471, E304, E223, E100 nutrients per 100 g: Fat 0,6 g, Carbohydrates 76 g, Protein 8,3 g	— —
5	Soya extraction grit (60 g) Ingredients: Soya Soya flour, European Supplier (24 g) Ingredients: Soya flour toasted Nutrients per 100 g: Protein 37 g Rape/Canola-Pellets (16 g) Ingredients: Rape (pressing residue) DP73496 Rape seed / Canola (0,44 g) Reference material: 100% GMO-Rape seed	experimental: synPAT, AgroBorder II, CTP2:CP4 EPSPS, p-FMV — — gat4621

* according to GMO Database [A] and BVL-Screening table [B]

Note: The metrological traceability of temperature, mass and volume during production of the PT samples is ensured by DAKKS-compliant reference materials.

Minimum Sample Size

A minimum sample size of 5 g is recommended for sample preparation.

The homogeneity tests were performed with sample sizes of 5 g (Microtracer analysis).

The mixture homogeneity before bottling was examined 10-fold by microtracer analysis for samples 1-4. Homogeneity was sufficient with a probability of $\geq 75\%$ (excellent mixture) and a HorRat value in the range of acceptance (0,3 to 1,3) (for more details see final report of PT).

Reference Values

All reference values were derived from the related proficiency test (PT) round (for more details see final report).

Consensus values $\geq 75\%$ positive or negative results of PT-participants

Reference Values qualitative: AgroBorder I

	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5
Number positive	6	0	0	0	3
Number negative	0	6	6	6	3
Percent positive	100	0	0	0	50
Percent negative	0	100	100	100	50
Consensus value	positive	negative	negative	negative	none*
Spiking	positive	negative	negative	negative	negative

*No consensus value of $\geq 75\%$ positive or negative results was obtained for sample 5. The sample was not intentionally spiked with events containing the AgroBorder I promoter / construct flanking sequence, however, traces can not be excluded. According to the participants, the detection limits of the methods used were between 0,01% and 0,06%.

Reference Values qualitative: AgroBorder II

	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5
Number positive	0	7	0	0	7
Number negative	7	0	7	7	0
Percent positive	0	100	0	0	100
Percent negative	100	0	100	100	0
Consensus value	negative	positive	negative	negative	positive
Spiking	negative	positive	negative	negative	positive

Reference Values qualitative: CTP2:CP4 EPSPS

	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5
Number positive	0	10	0	0	10
Number negative	10	0	10	10	0
Percent positive	0	100	0	0	100
Percent negative	100	0	100	100	0
Consensus value	negative	positive	negative	negative	positive
Spiking	negative	positive	negative	negative	positive

Reference Values qualitative: nptII

	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5
Number positive	7	0	0	0	0
Number negative	0	7	7	7	7
Percent positive	100	0	0	0	0
Percent negative	0	100	100	100	100
Consensus value	positive	negative	negative	negative	negative
Spiking	positive	negative	negative	negative	negative

Reference Values qualitative: synPAT

	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5
Number positive	0	0	0	0	9
Number negative	8	8	8	8	0
Percent positive	0	0	0	0	100
Percent negative	100	100	100	100	0
Consensus value	negative	negative	negative	negative	positive
Spiking	negative	negative	negative	negative	positive

Reference Values qualitative: p-FMV

	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5
Number positive	0	11	0	0	11
Number negative	10	0	11	10	0
Percent positive	0	100	0	0	100
Percent negative	100	0	100	100	0
Consensus value	negative	positive	negative	negative	positive
Spiking	negative	positive	negative	negative	positive

Reference Values qualitative: Potato-specific DNA

	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5
Number positive	7	0	0	7	0
Number negative	0	6	7	0	6
Percent positive	100	0	0	100	0
Percent negative	0	100	100	0	100
Consensus value	positive	negative	negative	positive	negative
Spiking	positive	negative	negative	positive	negative

Reference Values qualitative: GMO-Potato Amflora (EH92-527-1)

	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5
Number positive	7	0	0	0	0
Number negative	0	5	6	6	5
Percent positive	100	0	0	0	0
Percent negative	0	100	100	100	100
Consensus value	positive	negative	negative	negative	negative
Spiking	positive	negative	negative	negative	negative

Reference Values qualitative: Canola specific DNA

	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5
Number positive	0	0	0	0	10
Number negative	9	9	10	10	0
Percent positive	0	0	0	0	100
Percent negative	100	100	100	100	0
Consensus value	negative	negative	negative	negative	positive
Spiking	negative	negative	negative	negative	positive

Reference Values qualitative: GMO-Rape Seed / Canola (DP73496)

	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5
Number positive	0	0	0	0	13
Number negative	12	12	13	13	0
Percent positive	0	0	0	0	100
Percent negative	100	100	100	100	0
Consensus value	negative	negative	negative	negative	positive
Spiking	negative	negative	negative	negative	positive

Reference Values qualitative: Sugarbeet-specific DNA

	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5
Number positive	0	9	3	0	0
Number negative	8	0	6	9	8
Percent positive	0	100	33	0	0
Percent negative	100	0	67	100	100
Consensus value	negative	positive	none*	negative	negative
Spiking	negative	positive	positive	negative	negative

* No consensus value of $\geq 75\%$ positive or negative results was obtained for sample 3, which was spiked with 13% of sugar beet molasses (table 1). According to the participants, the detection limits of the methods used were between 0,01% and 0,05%.

Reference Values qualitative: GMO-Sugar Beet (H7-1)

	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5
Number positive	0	10	0	0	1
Number negative	9	0	10	10	9
Percent positive	0	100	0	0	10
Percent negative	100	0	100	100	90
Consensus value	negative	positive	negative	negative	negative
Spiking	negative	positive	negative	negative	negative

Intended Use

- for laboratory use only, no food!
- validation of analytical methods
- control sample for quality control charts
- test material for inter-laboratory comparisons

Storage Instructions and Handling Information

The material should be stored as stated on page 1. Before use of the material should be warmed up to room temperature. The content should be mixed thoroughly prior to subsampling (see minimum sample size above). The material should be weighed immediately after opening of the foil poche/bottle and closed again afterwards in order to avoid uptake of moisture. Frequent freezing and thawing should be avoided as this can lead to changes in the properties of the material. The expiry date of this RM is based on the current knowledge and applies only for proper storage conditions in the originally closed foil poche/bottle.

Safety Precautions

The usual laboratory safety precautions should be applied when working with the RM considering the type of ingredients, parameters and its concentration.

Data Source

The material was analyzed by 13 laboratories within the related proficiency test (PT). Different analytical methods have been used.

Various

The user must determine the suitability of this RM for its particular purpose. DLA makes no warranty of any kind, expressed or implied, other than its products meet all quality control standards set by DLA. We do not guarantee this product can be used for a special application.



created	approved (PT-Coordinator)	updated
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<i>signed U. Vorreiter</i>	<i>signed M. Besler-Scharf</i>	-
24 February 2026	27 March 2026	-