

PRODUCT INFORMATION SHEET

p-FMV, p-NOS, t-NOS, CP4 EPSPS, synPAT / GMO Patato Amadea (AM04-1020), GMO-Rape Seed (MON88302) / Canola and GMO-Sugar Beet (H7-1)

PT originated REFERENCE MATERIAL (RM)

Description of the RM

Name / Material of related PT	<i>DLA ptGMS2 (2023) GMO-Screening II (qualitative): 5 Samples with positive/negative amounts of p-FMV, p-NOS, t-NOS, CP4 EPSPS, synPAT / GMO Potato Amadea (AM04-1020), GMO-Rape Seed (MON88302) / Canola and GMO-Sugar Beet (H7-1)</i>
Identifier / LOT	<i>RM 2023-GMS2 Set</i>
Expiry date	<i>February 2025</i>
Matrix	<i>See table</i>
Physical description	<i>Powder</i>
Packaging / weight	<i>Sealed foil pouche / 5 x 10 g each</i>
Storage conditions	<i>cooled 2 - 10°C (dry and dark)</i>
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)
1	Soya extraction grit (60 g) Ingredients: Soya Rape/Canola-Pellets (20g) Ingredients: Rape (pressing residue) Soya flour, European Supplier (19g) Ingredients: Soya flour MON88302 Rape / Canola (0,82 g) Reference material: 100% GMO-Rape seed
2	Soya flour, European Supplier (80 g) Ingredients: Soya flour Sugar beet molasses (19 g) Ingredients: Sugar beet molasses H7-1 Sugar beet (0,50 g) Reference material: 100% GMO-Sugar beet
3	Soya flour, European Supplier (80 g) Ingredients: Soya flour Sugar beet molasses (20 g) Ingredients: Sugar beet molasses
4	Soya flour, European Supplier (79 g) Ingredients: Soya flour Potato powder (21 g) Ingredients: Potatoes, E471, E304, E223, E100 nutrients per 100 g: Fat 0,6 g, Carbohydrates 76 g, Protein 8,3 g
5	Soya flour, European Supplier (83 g) Ingredients: Soya flour Potato powder (17 g) Ingredients: Potatoes, E471, E304, E223, E100 nutrients per 100 g: Fat 0,6 g, Carbohydrates 76 g, Protein 8,3 g AM04-102 (Amadea) Potato (0,45 g) Reference material: 100% GMO-Potato

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 1-5. 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).

Reference Values qualitative: p-FMV-Screening-Sequence

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

Reference Values qualitative: p-NOS-Screening-Sequence

	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5
Number positive	4	0	0	0	7
Number negative	4	8	8	8	1
Percent positive	50	0	0	0	88
Percent negative	50	100	100	100	1
Consensus value	none	negative	negative	negative	positive

Reference Values qualitative: t-NOS-Screening-Sequence

	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5
Number positive	10	2	1	1	10
Number negative	0	8	9	9	0
Percent positive	100	20	10	10	100
Percent negative	0	80	90	90	0
Consensus value	positive	negative	negative	negative	positive

Reference Values qualitative: CTP2-CP4 EPSPS-Screening-Sequence

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

Reference Values qualitative: synPat-Screening-Sequence

	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5
Number positive	8	0	0	0	0
Number negative	1	9	9	9	9
Percent positive	89	0	0	0	0
Percent negative	11	100	100	100	100
Consensus value	positive	negative	negative	negative	negative

Reference Values qualitative: GMO Potato Amadea (AM04-1020) (informative)

	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5
Number positive	0	0	0	0	1
Number negative	1	1	1	1	0
Results (n=1)	negative	negative	negative	negative	positive

Reference Values qualitative: GMO-Rape seed / Canola (MON88302)

	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5
Number positive	7	1	0	0	0
Number negative	0	6	7	7	7
Percent positive	100	14	0	0	0
Percent negative	0	86	100	100	100
Consensus value	positive	negative	negative	negative	negative

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

	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5
Number positive	0	6	0	0	0
Number negative	6	0	6	6	6
Percent positive	0	100	0	0	100
Percent negative	100	0	100	100	0
Consensus value	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
- no medical use

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 pouche/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 pouche/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.

Datum / Date: 29 February 2024

Matthias Besler-Scharf, PhD (EP-Koordinator / PT-Coordinator)
- *gezeichnet / signed M. Besler-Scharf*

