PRODUCT INFORMATION SHEET

Soya + GMO-Soya (RR GTS 40-3-2 and RR2 MON89788), Maize + GMO-Maize (GA21 RR) and Rape Seed + GMO-Rape Seed / Canola (MON88302) in Feed (positive)

PT originated REFERENCE MATERIAL (RM)

Description of the RM

Name / Material of related PT	*DLA ptGMF (2025) – GMO-Determination in Feed: Soya + GMO-Soya (RR GTS 40-3-2 and RR2 MON89788), Maize + GMO-Maize (GA21 RR) and Rape Seed + GMO-Rape Seed / Canola (MON88302) –* ***Sample B*** *(positive sample)*
Identifier / LOT	*RM 2025-GMF B*
Expiry date	*January 2027*
Matrix	*Feed for Poultry*
Physical description	*Powder*
Packaging / weight	*Sealed foil pouche / 10 g*
Storage conditions	*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

Ingredients	**Sample A**	**Sample B** **present sample**	**GMO-Content**
Complete feed for laying hens (without GMO ingredients) Ingredients: Maize, wheat, steam-heated soybean meal, calcium carbonate, barley, lucerne meal, Ca-Na-phosphate, vegetable fatty acids, oats, wheat bran, sodium chloride and nutritional and technological additives Nutrients per 100 g: Crude Protein 17 g, Crude Fat 3,4 g, Crude Fiber 3,6 g, Crude Ash 11 g	100 g/100 g	–	–
Complementary feed for laying hens (with GMO ingredients*) Ingredients: Maize*, soybean meal*, steam-heated, calcium carbonate, Ca-Na-phosphate, wheat gluten, wheat bran, sodium chloride, vegetable fatty acids, vegetable oils as well as nutritional and technological additives Nutrients per 100 g: Crude Protein 19 g, Crude Fat 3,0 g, Crude Fiber 3,9 g, Crude Ash 17 g	–	50,8 g/100 g	positive
Rape seed feed pellets, Ingredients: Rape (press residue)	–	8,1 g/100 g	–
Soya flour, Ingredients: Soya flour	–	39,8 g/100 g	–
GMO Rape seed / Canola MON88302 Reference material: 100% GMO-Rape / Canola	–	0,39 g/100 g	positive
GMO Maize GA21 RR Reference material: 100% GMO-Maize	–	1,0 g/100 g	positive

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

Minimum Sample Size / Homogeneity
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) and 1 - 5 g (ELISA methods), respectively.
The mixture homogeneity was examined 10-fold by microtracer analysis. Homogeneity was sufficient with a probability of ≥ 25% (excellent mixture) and a HorRat value in the range of acceptance (0,3 to 1,3).

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

Reference Values quantitative

Parameter	**GMO-Soya GTS 40-3-2 (RR)**		**GMO-Soya MON89788 (RR2Yield) (Info*)**	
	log-data	%-data	log-data	%-data
Number of results	5°	5°	7	7
Number of outliers	0	0	0	0
Assigned Value (Xpt)	***0,541***	***3,27***	***0,680***	***4,78***
Robust standard deviation	0,192	-	0,407	-
Standard uncertainty	0,108	-	0,192	-
Target standard deviation σpt	0,150	-	0,150	-
Target range	**-**	***1,63 – 6,53***	**-**	***2,39 – 9,57***

° without excluded results
* Info: Due to the small number and higher variability of quantitative results, the evaluation is purely informative.

Parameter	**GMO-Maize GA21 RR (Info*)**		**GMO-Rape seed / Canola MON88302 (Info**)**	
	log-data	%-data	log-data	%-data
Number of results	5	5	6	6
Number of outliers	0	0	0	0
Assigned Value (Xpt)	***0,763***	***5,80***	***0,449***	***2,81***
Robust standard deviation	0,443	-	0,340	-
Standard uncertainty	0,247	-	0,173	-
Target standard deviation σpt	0,150	-	0,150	-
Target range	**-**	**-**	**-**	***1,41 – 5,62***

* Info: Due to the small number and higher variability of quantitative results, the evaluation is purely informative. No z-scores were calculated.
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Reference Values qualitative (Consensus Values)
Consensus values ≥ 75% positive or negative results of PT-participants

Parameter	**GMO-Soya GTS 40-3-2 (RR)***	**GMO-Soya MON89788 (RR2 Yield)***
Number positive	8	8
Number negative	0	0
Percent positive	100	100
Percent negative	0	0
Consensus value	***positive***	***positive***

* (LODs GTS 40-3-2 and MON89788 0,01-0,1%)

Parameter	GMO-Maize GA21 RR*	GMO-Rape seed / Canola MON88302*
Number positive	7	7
Number negative	0	0
Percent positive	100	100
Percent negative	0	0
Consensus value	***positive***	***positive***

* (LODs GA21 0,01-0,1% and MON88302 0,01%)

Parameter	Soya specific DNA	Maize specific DNA	Rape seed / Canola specific DNA
Number positive	7	7	7
Number negative	0	0	0
Percent positive	100	100	100
Percent negative	0	0	0
Consensus value	***positive***	***positive***	***positive***

* (LODs Soya and Maize 0,01-0,1% and Rape seed / Canola 0,01%)

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 9 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.

DLA Proficiency Tests

created	approved (PT-Coordinator)	updated
Ulrike Vorreiter	Matthias Besler-Scharf, PhD	-
signed U. Vorreiter	*signed M. Besler-Scharf*	-
6 February 2026	26 March 2026	-