

PRODUCT INFORMATION SHEET

GMO-Soya (RR and RR2), GMO-Maize (bt11 and TC1507) and GMO-Rape (GT73) in Feed

PT originated REFERENCE MATERIAL (RM)

Description of the RM

Name / Material of related PT	<i>DLA ptGMF (2021) GMO-Determination in Feed: (qualitative + quantitative): GMO-Soya (RR and RR2), GMO-Maize (bt11 and TC1507) and GMO-Rape (GT73) - Sample B</i>
Identifier / LOT	<i>RM 2021-GMF B</i>
Expiry date	<i>September 2027</i>
Matrix	<i>Feed for Poultry</i>
Physical description	<i>Powder</i>
Packaging / weight	<i>Sealed foil pouche / 10 g</i>
Storage conditions	<i>2 - 10°C, long term < -18°C (dry and dark)</i>
Name and address manufacturer	DLA - Proficiency Tests GmbH <i>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</i>

Composition of Material

Ingredients	Amount	GMO-Content
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	89,2 g/100 g	positive
Rape seed feed pellets Ingredients: Rape (press residue)	9,9 g/100 g	-
GMO Rape seed GT73/RT73 Reference material: 100% GMO-Rape	0,51 g/100 g	positive
GVO Maize Bt11 Reference material: 100% GMO-Maize	0,32 g/100 g	positive

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 8-fold by microtracer analysis. Homogeneity was sufficient with a probability of $\geq 25\%$ (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 PT round (for more details see final report).

Reference Values quantitative

Parameter	GMO-Maize Bt11		GMO-Maize TC1507 (Herculex I)	
	log-data	%-data	log-data	%-data
Number of results	7	7	5	5
Number of outliers	-	-	0	0
Assigned Value (Xpt)	0,328	2,13	-0,541	0,288
Robust standard deviation	0,205	-	0,189	-
Standard uncertainty	0,097	-	0,106	-
Target standard deviation opt	0,15	-	0,15	-
Target range	-	1,06 – 4,26	-	0,144 – 0,576

Parameter	GMO-Rape GT73 (RoundUp-Ready)		GMO-Soya MON89788 (RR2Yield)	
	log-data	%-data	log-data	%-data
Number of results	8	8	7	7
Number of outliers	0	0	1	1
Assigned Value (Xpt)	0,468	2,94	1,45	28,0
Robust standard deviation	0,134	-	0,249	-
Standard uncertainty	0,059	-	0,118	-
Target standard deviation opt	0,15	-	0,15	-
Target range	-	1,47 – 5,87	-	14,0 – 56,0

Reference Values qualitative

Parameter	GMO-Maize Bt11*	GMO-Maize TC1507 (Herculex I)*
Number positive	10	7
Number negative	0	1
Percent positive	100	88
Percent negative	0	13
Consensus value	positive	positive

* (LODs Bt11 0,01-0,1% / 5-15 copies and TC1507 0,01-0,1% / 5 copies)

Parameter	GMO-Rape GT73 (RoundUp-Ready)*	GMO-Soya GTS 40-3-2 (RoundUp-Ready)*
Number positive	9	9
Number negative	0	1
Percent positive	100	90
Percent negative	0	10
Consensus value	positive	positive

* (LODs GT73 0,01-0,1% / 5-20 copies and GTS 0,01-0,1% / 25 copies)

Parameter	GMO-Soya MON89788 (RR2Yield)*
Number positive	10
Number negative	0
Percent positive	100
Percent negative	0
Consensus value	positive

* (LODs 0,01-0,1% / 25 copies)

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 11 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.



approved (PT-Coordinator)	updated
Matthias Besler-Scharf, PhD	Ulrike Vorreiter
<i>signed M. Besler-Scharf</i>	<i>signed U. Vorreiter</i>
19 April 2022	6 October 2026