

PRODUCT INFORMATION SHEET

GMO-Soya (RR and RR2), GMO-Maize (GA21 RR and MON87429) and GMO-Rape Seed / Canola (MON88302) in Feed

PT originated REFERENCE MATERIAL (RM)

Description of the RM

Name / Material of related PT	<i>DLA ptGMF (2023) GMO-Determination in Feed (qualitative + quantitative): GMO-Soya (RR and RR2), GMO-Maize (GA21 RR and MON87429) and GMO-Rape Seed / Canola (MON88302) - Sample B</i>
Identifier / LOT	<i>RM 2023-GMF B</i>
Expiry date	<i>December 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 (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	Sample B	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	—	—
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	48,7 g/100 g	positive

Ingredients	Sample B	GMO-Content
Rape seed feed pellets Ingredients: Rape (press residue)	16 g/100 g	–
Soya flour Ingredients: Soya flour	32,4 g/100 g	–
GMO Rape seed / Canola MON88302 Reference material: 100% GMO-Rape / Canola	0,97 g/100 g	positive
GMO Maize GA21 RR Reference material: 100% GMO-Maize	0,98 g/100 g	positive
GMO Maize MON87429 Reference material: 100% GMO-Maize	0,98 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-Soya GTS 40-3-2 (RR)		GMO-Soya MON89788 (RR2Yield)	
	log-data	%-data	log-data	%-data
Number of results	9*	9*	9*	9*
Number of outliers	2	2	1	1
Assigned Value (X_{pt})	0,703	5,04	0,894	7,84
Robust standard deviation	0,102	-	0,0858	-
Standard uncertainty	0,043	-	0,036	-
Target standard deviation σ_{pt}	0,150	-	0,150	-
Target range	-	2,52 – 10,1	-	3,92 – 15,7

* without outlier results

Parameter	GMO-Rape / Canola MON88302	
	log-data	%-data
Number of results	6	6
Number of outliers	0	0
Assigned Value (X_{pt})	0,283	1,92
Robust standard deviation	0,332	-
Standard uncertainty	0,169	-
Target standard deviation σ_{pt}	0,150	-
Target range	-	0,96 – 3,84

Parameter	GMO-Maize GA21 (RR)		GMO-Maize MON87429 (for Information)	
	log-data	%-data	log-data	%-data
Number of results	8	8	4	4
Number of outliers	0	0	1	1
Assigned Value (Xpt)	0,815	6,53	0,805	6,38
Robust standard deviation	0,145	-	0,264	-
Standard uncertainty	0,064	-	0,165	-
Target standard deviation opt	0,150	-	0,150	-
Target range	-	3,27 – 13,1	-	3,19 – 12,8

Reference Values qualitative

Parameter	GMO-Soya GTS 40-3-2 (RR)*	GMO-Soya MON89788 (RR2-Yield)*
Number positive	13	13
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-Rape / Canola MON88302*
Number positive	10
Number negative	0
Percent positive	100
Percent negative	0
Consensus value	positive

* (LOD 0,01-0,1%)

Parameter	GMO-Maize GA21 (RR)*	GMO-Maize MON87429*
Number positive	13	9
Number negative	0	0
Percent positive	100	100
Percent negative	0	0
Consensus value	positive	positive

* (LODs GA21 0,01-0,1% and MON87429 0,01-0,1%)

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 14 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: 4 November 2024

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- *gezeichnet / signed M. Besler-Scharf*

