PRODUCT INFORMATION SHEET

Response PT Sesame: 5 Processed Samples white sesame (ground), black sesame (ground), sesame paste (Tahini), vegetarian spread (heated) and salt crackers (baked)

PT originated REFERENCE MATERIAL (RM)

Description of the RM

Name / Material of related PT	*DLA ptALR2 (2020) Response PT Sesame: 5 Processed white sesame (ground), black sesame (ground), sesame paste (Tahini), vegetarian spread (heated) and salt crackers (baked)*
Identifier / LOT	*RM 2020-ALR2 Set (1-6)*
Expiry date	*May 2027*
Matrix	*Potato Powder / Maltodextrin*
Physical description	*Powder*
Packaging / weight	*Sealed foil pouche / 6 x 20 g*
Storage conditions	*2 - 10°C, long term < -18°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

Sample series	**Sample 1** **Sesame paste**	**Sample 2** **Sesame, white**	**Sample 3** **Sesame, black**	**Sample 4** **Sesame spread**	**Sample 5** **Sesame cracker**	**Sample 6** **„blank“**
Ingredients	**g/100 g**	**g/100g**	**g/100g**	**g/100g**	**g/100g**	**g/100g**
Potato powder Ingredients: potato, E471, E304, E223, E100 Nutrients per 100 g: Protein 8,3 g, carbohydrates 76 g, fat 0,6 g, salt 0,15 g	75	75	75	75	74	75
Maltodextrin	25	25	25	25	25	25
Allergen-Premixes Ingredients (sample 1-4): maltodextrin (88% - 98%), silicon dioxide (<3%), processed allergen products (each 0,26% - 5% sesame)	0,10	0,10	0,10	0,47	2,0	-
Allergen-Contents	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
*Sesame paste (Tahini)** Protein 21,0 % ** (6 products, 5 countries, Europe, Southwest Asia)	50,7	-	-	-	-	-
Sesame, white (ground)* Protein 20,8 % ** *(10 products, Africa, Asia, South America)*	-	52,3	-	-	-	-
Sesame, black (ground)* Protein 18,5 % ** *(6 products, Asia)*	-	-	51,3	-	-	-
*Sesame Spread** Ingredients: 12% Sesame and chickpeas, water, vegetable oils and fats, conc. lemon juice, agave syrup, pineapple, salt, sugar, garlic, paprika, onions, spices and herbs and other additives Protein 2,5 % *** *(5 products, Europe)*	-	-	-	468	-	-
*Sesame Crackers** *(baked 200°C, 25 min)* Ingredients: 0,26 % Sesame and rapeseed oil, sugar, salt, baking powder and other food additives Protein 0,054 % *** *(10 products, Africa, Asia, South America)*	-	-	-	-	19500	-
– *as Sesame*	50,7	52,3	51,3	56,2	50,6	-
Extended combined uncertainty (k=2) of sesame-content (= ± 12,5 %)	± 6,34	± 6,54	± 6,41	± 7,03	± 6,33	-

*Allergen contents as „total food“ as described in column ingredients according to gravimetric mixture
** Protein contents according to laboratory analysis of raw material mixtures (total nitrogen according to Kjeldahl with F=5,3 for sesame protein)
***Sesame protein content calculated from sesame content according to the declaration of the products or DLA manufacture

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 ≥ 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 qualitative ELISA

	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6
Number positive	13	13	13	11	13	0
Number negative	0	0	0	2	0	13
Percent positive	100	100	100	85	100	0
Percent negative	0	0	0	15	0	100
Consensus value	positive	positive	positive	positive	positive	negative
Spiking	positive	positive	positive	positive	positive	negative

Methods:

AQ-P = AgraQuant Plus, RomerLabs
AQ = AgraQuant, RomerLabs
BF = MonoTrace ELISA, BioFront Technologies
BF = MonoTrace ELISA, BioFront Technologies
MI-II = Morinaga Institute ELISA Kit II
NL-E = nutriLinia®E Allergen-ELISA
RS-F= Ridascreen® Fast, R-Biopharm
SP = SensiSpec ELISA Kit, Eurofins

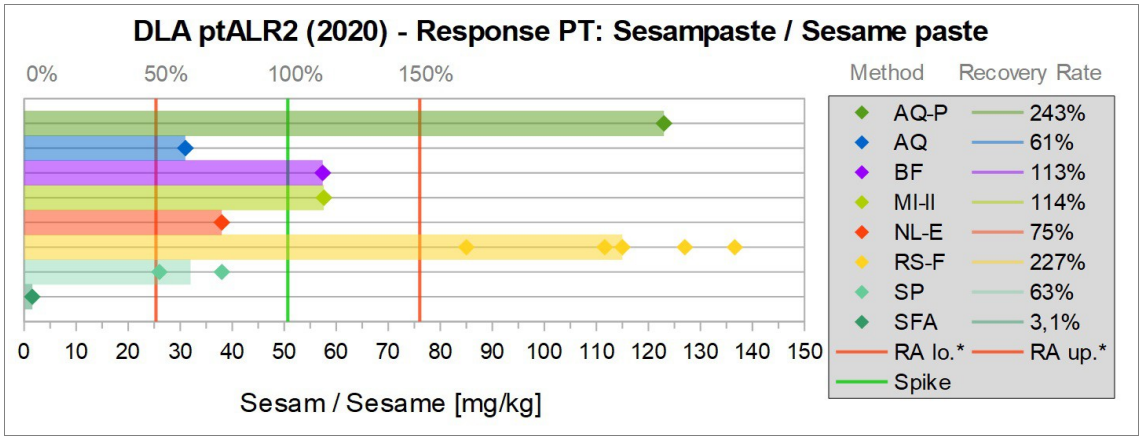
Reference Values qualitative PCR

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

Methods:

ASU = ASU §64 Methode/method
SFA = Sure Food Allergen, R-Biopharm / Conge
div = keine genaue Angabe / andere Methode
div = not indicated / other method

Median of Recovery Rates: Samples 1-2



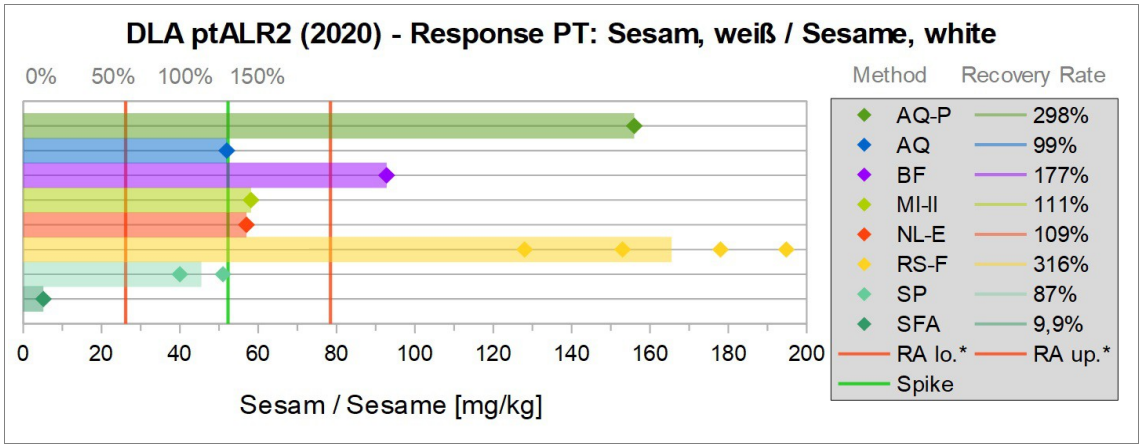
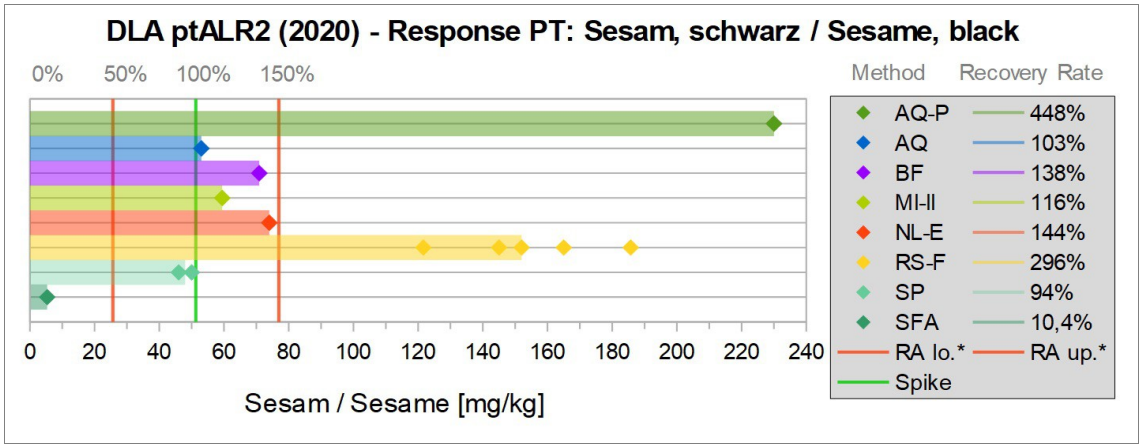
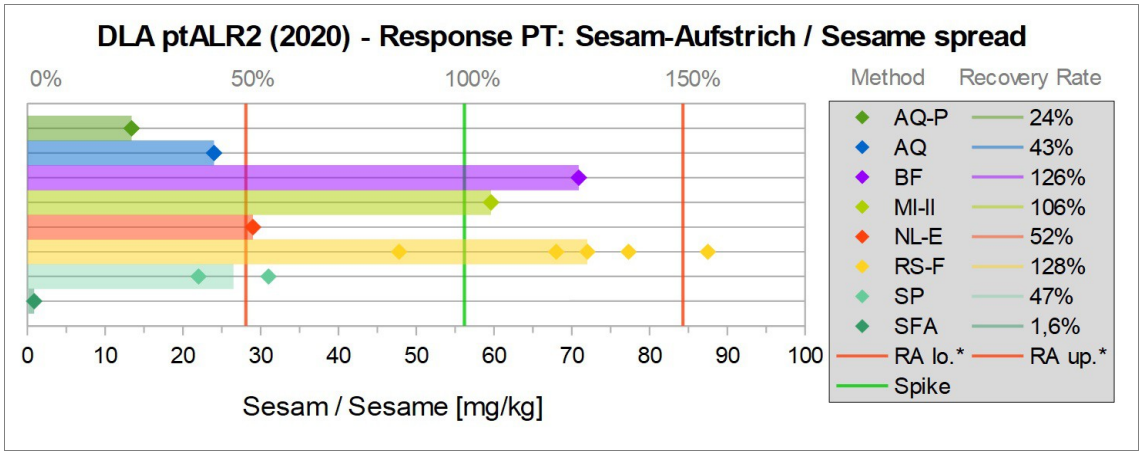


Abb./Fig. 1: Graphs of single results (Samples 1-2) separated by methods with corresponding mean recovery rates, lower scale sesame content in mg/kg, upper scale recovery rate in % with * range of acceptance from 50% - 150% (* range of acceptance: RA lower limit to RA upper limit)

Median of Recovery Rates: Samples 3-5





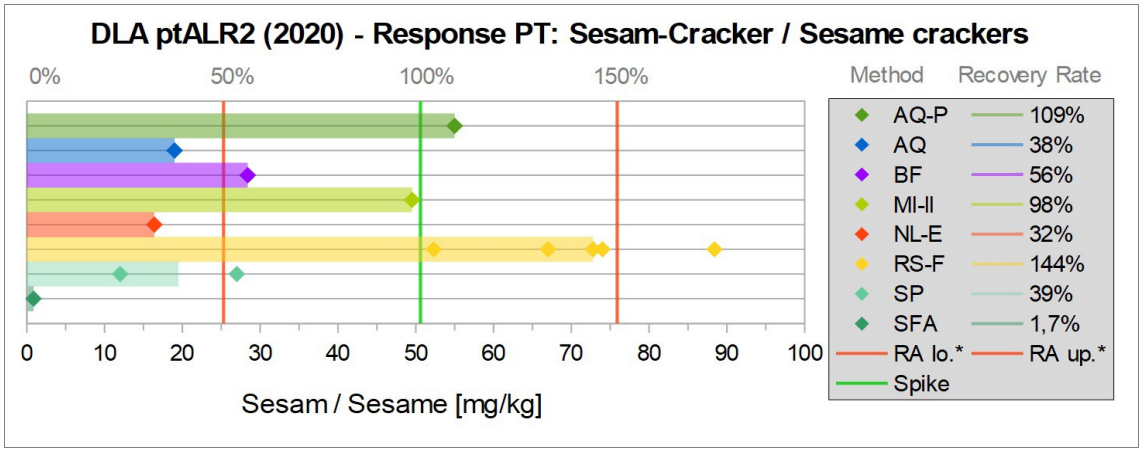


Abb./Fig. 2: Graphs of single results (Samples 3-5) separated by methods with corresponding mean recovery rates, lower scale sesame content in mg/kg, upper scale recovery rate in % with * range of acceptance from 50% - 150% (* range of acceptance: RA lower limit to RA upper limit)

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.

approved (PT-Coordinator)	updated
Matthias Besler-Scharf, PhD	Ulrike Vorreiter
signed M. Besler-Scharf	*signed U. Vorreiter*
23 March 2023	27 May 2026