PRODUCT INFORMATION SHEET

Response PT Egg: 5 Processed Samples Liquid Egg (pasteurized), Egg (boiled), Whole Egg Powder, Egg Pasta and Egg Pastry

PT originated REFERENCE MATERIAL (RM)

Description of the RM

Name / Material of related PT	*DLA 15-2019 Response PT Egg: 5 Processed Samples Liquid Egg (pasteurized), Egg (boiled), Whole Egg Powder, Egg Pasta and Egg Pastry*
Identifier / LOT	*RM 2019-15 Set (1-6)*
Expiry date	*March 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** **Egg Pastry**	**Sample 2** **Egg, cooked**	**Sample 3** **Whole Egg Powder**	**Sample 4** **Egg Pasta**	**Sample 5** **Liquid Egg**	**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	74	75	75
Maltodextrin	25	25	25	24	25	25
Allergen-Premixes Ingredients: maltodextrin (<90%), silicon dioxide (<1,3%), processed allergen products (each 3,5% - 10% egg)	0,95	0,62	0,54	1,5	0,55	-
Allergen-Contents	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
*Egg biscuits * (26% whole egg and sugar, wheat flour, invert sugar syrup, raising agent, aroma, glucose, salt)* Total protein 8,7 % *** *(6 Products, Europe)*	953	-	-	-	-	-
Eggs, cooked (freeze-dried)* Protein 49,4 % ** *(8 Products, Europe)*	-	61,5	-	-	-	-
*Whole egg powder** Protein 46,9 % ** *(6 Products, Europe)*	-	-	55,2	-	-	-
Egg pasta/noodles (15% whole egg and durum wheat, soft wheat, salt)* Total protein 13,6 % *** *(8 Products, Europe)*	-	-	-	1500	-	-
Liquid egg, pasteurized (freeze-dried)* Protein 50,0 % ** *(4 Products, Europe)*	-	-	-	-	55,1	-
– *as Whole egg powder*	59,9	61,5	55,2	51,7	55,1	-
Extended combined uncertainty (k=2) of egg content (= ± 11 %)	± 6,59	± 6,77	± 6,07	± 5,69	± 6,06	-

*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=6,25 for egg protein)
***Protein content calculated according to the declaration of the products (besides egg, other protein sources are included)

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	11	13	13	13	13	0
Number negative	2	0	0	0	0	13
Percent positive	85	100	100	100	100	0
Percent negative	15	0	0	0	0	100
Consensus value	positive	positive	positive	positive	positive	negative
Spiking	positive	positive	positive	positive	positive	negative

Methods:
AQ = AgraQuant, RomerLabs
BF = MonoTrace ELISA, BioFront Technologies
BK = BioKits, Neogen
IL = Immunolab
MI-II = Morinaga Institute ELISA Kit II
RS-F= Ridascreen® Fast, R-Biopharm

Median of Recovery Rates: Samples 1-2

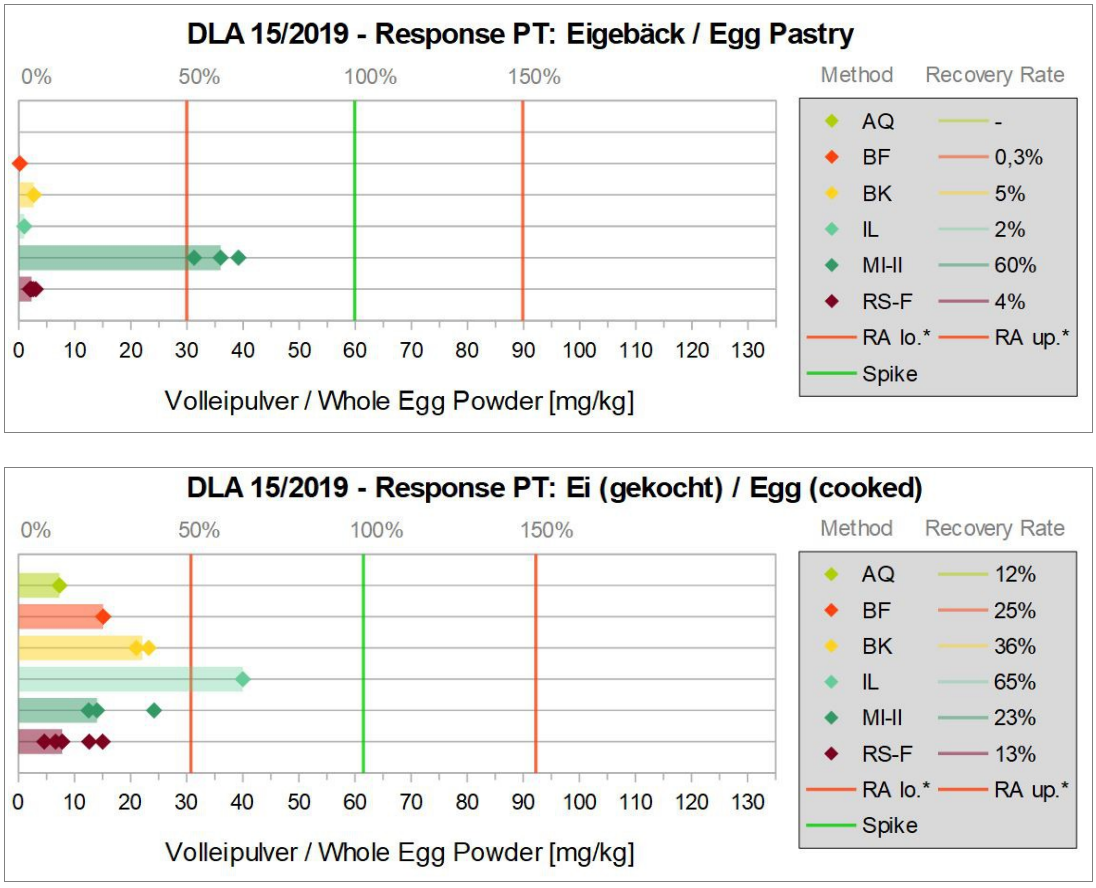


Abb./Fig. 1: Graphs of single results (Samples 1-2) separated by methods with corresponding mean recovery rates, lower scale whole egg powder content in mg/kg, upper scale recovery rate in % with * range of acceptance from 50% - 150% (* range of acceptance: RA lower limit to RA upper limit)

Median of Recovery Rates: Samples 3-5

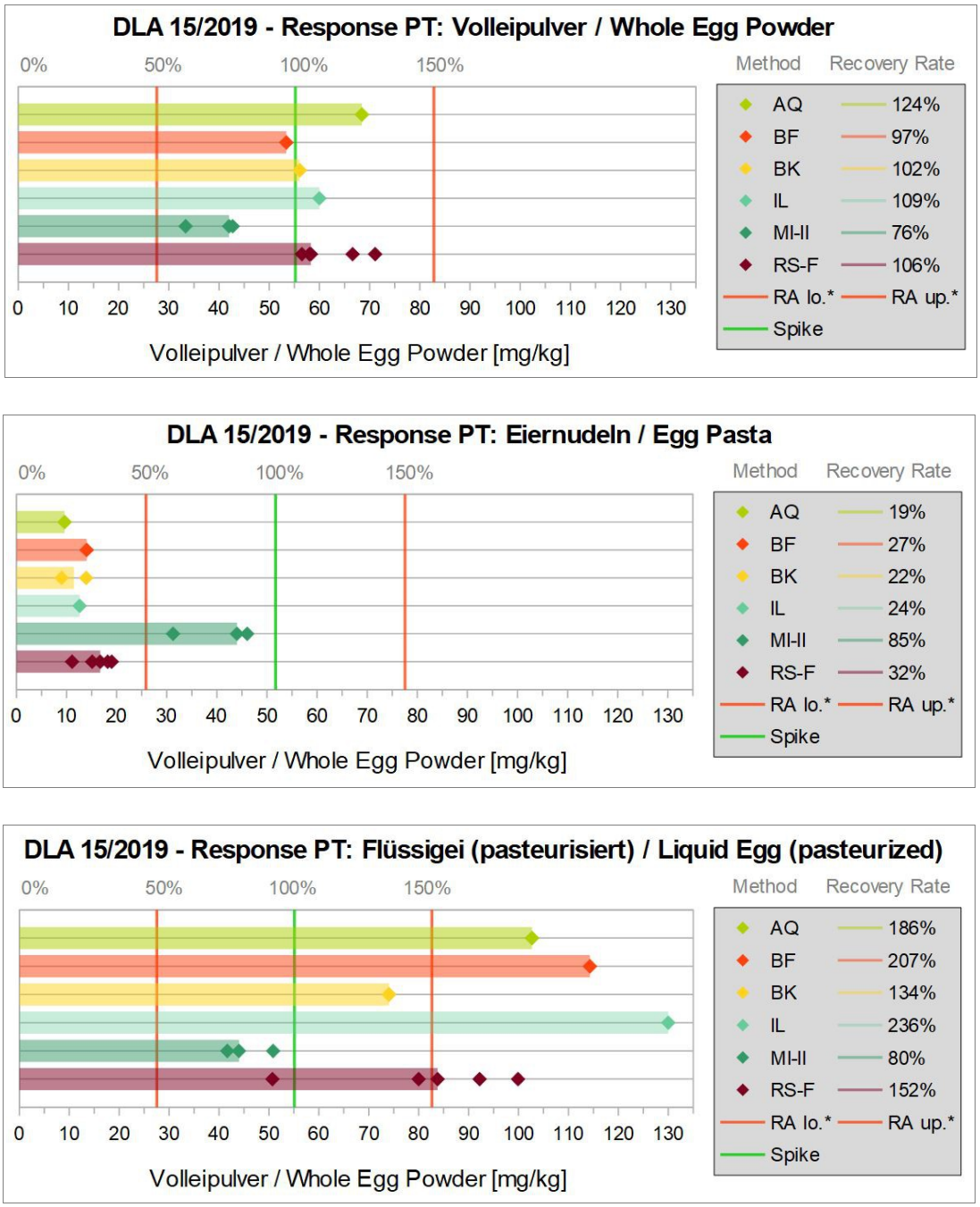


Abb./Fig. 2: Graphs of single results (Samples 3-5) separated by methods with corresponding mean recovery rates, lower scale whole egg powder content in mg/kg, upper scale recovery rate in % with * range of acceptance from 50% - 150% (* range of acceptance: RA lower limit to RA upper limit)

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 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
signed M. Besler-Scharf	*signed U. Vorreiter*
23 May 2020	2 April 2026