

PRODUCT INFORMATION SHEET

Animal ingredients

in Vegan Burger Powder (positive)

PT originated REFERENCE MATERIAL (RM)

Description of the RM

Name / Material of related PT	<i>DLA ptAU11 (2025) – Vegan Compliance Check: Animal ingredients in Vegan Burger Powder – Sample B (positive sample)</i>
Identifier / LOT	<i>RM 2025-AU11 B</i>
Expiry date	<i>January 2027</i>
Matrix	<i>Vegan Burger Powder</i>
Physical description	<i>Powder</i>
Packaging / weight	<i>Sealed foil pouche / 25 g</i>
Storage conditions	<i>2 - 10°C (dry and dark)</i>
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
Vegan burger mix Soy protein 21%, pea protein 14%, thickener: methylcellulose, flavours (contain yeast extract), field bean protein, potato fibre, linseed meal, tapioca starch. Colouring food: beetroot juice powder, salt, paprika, ground psyllium husks, barley malt extract, sunflower oil.	100 g/100 g	97,5 g/100 g
Sheep's milk powder	-	1,09 g/100 g
Liquid egg powder, freeze-dried 50% total protein*	-	1,43 g/100 g

* Protein contents according to laboratory analysis of the raw material (total nitrogen according to Kjeldahl with F=6,25 for whole egg protein)

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).

The mixture homogeneity was examined 10-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).

Reference Values

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

Reference Values: Summary of all results (DNA-based methods and protein-based methods)

Parameter	Animal ingredients > 0,1%
Number positive	8
Number negative	0
Percent positive	100
Percent negative	0
Consensus value *	positive

* Consensus values $\geq 75\%$ positive or negative results of PT-participants

Reference Values qualitative Protein-based methods (e.g. ELISA, IEF, MALDI-TOF)

Parameter	Cow's Milk Protein*	Egg Protein*	Fish Protein*
Number positive	5	10	0
Number negative	0°	0	2
Percent positive	100	100	0
Percent negative	0°	0	100
Consensus value	positive	positive	negative

* Results of diverse ELISA Methods (LODs 0,00001-0,2 % Cow's Milk Protein, 0,000016-0,3 % Egg protein and 4 % Fish Protein)

° outlier excluded

Reference Values qualitative DNA-based methods (PCR, NGS, Microarray)

Parameter	Cow / Cow's Milk DNA*	Goat / Goat's Milk DNA*	Sheep / Sheep's Milk DNA*
Number positive	0	0	10
Number negative	12	10	1
Percent positive	0	0	91
Percent negative	100	100	9
Consensus value	negative	negative	positive

* Results of diverse PCR/ Microarray Methods (LODs positive results 0,01-0,5 % Cow / Cow's Milk DNA, 0,01-0,1 % Goat / Goat's Milk DNA, 0,001-0,5 % Sheep / Sheep's Milk DNA)

Parameter	Chicken / Egg DNA*	Fish DNA*	Vertebrates DNA*
Number positive	8	0	11
Number negative	4	9	0
Percent positive	67	0	100
Percent negative	33	100	0
Consensus value	none**	negative	positive

* Results of diverse PCR/ Microarray Methods (LODs positive results 0,001-0,1 % Chicken / Egg DNA, 0,001-0,5 % Fish DNA, 0,001-0,5 % Vertebrates DNA)

** No consensus value with $\geq 75\%$ positive results, sample B was spiked with liquid egg powder, which is commonly known to contain only small amounts of DNA.

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 poche/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 poche/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.



created	approved (PT-Coordinator)	updated
Ulrike Vorreiter	Matthias Besler-Scharf, PhD	-
<i>signed U. Vorreiter</i>	<i>signed M. Besler-Scharf</i>	-
28 January 2026	24 March 2026	-