

Expert Opinion

File No: **IU-Z-1093**
Date: **07/02/20**

Applicant: Fabrika proteina i ulja BIOPROTEIN d.o.o. Bulevar Nikole Tesle 30a 11080 Zemun Bulevar Nikole Tesle 30a 11080 Zemun

Documents reff.:

Data on sample Samples submitted 28/01/20

Sample and identification number:

IU-Z-02666 Biolac-S (Product based on whey powder, vegetable fat and proteins);

Type of testing: Food safety

IU-Z-02666 Sensor analysis, Physico chemical analysis,
Microbiological safety, Physico chemical residue /contaminant analysis: heavy metals, pesticides, mycotoxins, GMO, antibiotics
and sulfonamides, radioactivity

Date of receipt: 28/01/20

Date of start of lab. analysis: 28/01/20
Date of completion of lab. analysis: 07/02/20

On the basis of results of laboratory analysis and expert review it was determined that the above stated sample IU-A-03239 from the point of controlled parameters IS IN COMPLIANCE WITH the Product Specification, Regulation (EC) No 396/2005 on maximum residue levels of pesticides in or on food and feed of plant and animal origin (OJ L 70 16.03.2005. p1) and amendments (Consolidated version of Reg 396/2005), Commission regulation (EC) No 1881/2006 setting maximum levels for certain contaminants in foodstuffs (OJ L 364/5), Council Regulation (EC) No 1048/2009 of 23 October 2009. and Regulation (EC) No 1829/2003 on genetically modified food and feed (OJ L 268/1), Commission regulation (EU) No 619/2011 laying down the methods of sampling and analysis for the official control of feed as regards presence of genetically modified material for which an authorisation procedure is pending or the authorisation of which has expired (OJ L 166/9).

Head of laboratory

Milan Simić PhD, Hygiene Specialist



Report on laboratory analysis

File No: **IU-Z-1093**
Date: **07/02/20**

Data received from applicant:

Applicant: **Fabrika proteina i ulja BIOPROTEIN d.o.o.**

Bear Costs: **Fabrika proteina i ulja BIOPROTEIN d.o.o. Bulevar Nikole Tesle 30a 11080 Zemun**

Documents reff.:

Data on sample: Samples submitted 28/01/20

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IU-Z-02666 Biolac-S (Product based on whey powder, vegetable fat and proteins);

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Statements:

This Report refers only to the tested sample.

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Date: 07/02/20

Analysis results:

Sample: IU-Z-02666 Biolac-S (Product based on whey powder, vegetable fat and proteins)

Sample data: **

Sample: Biolac S Whey powder, vegetable fat and protein based product
Food group: Mixed product / Other foods
Ingredients: Powdered mash, vegetable fat and protein concentrate and whey lactose, wholemeal, moderate toasted soft soy flour, sour cream flavor
Original packaging: -
Sample quantity: 2 kg
Allergen Information: Whey Lactose and Soybean Flour
Net quantity: 20kg
Applicable until: 09.23.2020
Series (LOT): 231219B2A6048
Storage and storage conditions: Store in a dry and cool place.
Veterinary control number: RS 20441
Manufacturer: Bankom doo, Bulevar Nikole Tesle 30a, 11080 Zemun, Serbia, Production facility: Bioprotein D.O.O. Nemanjina bb, Obrenovac
Country of origin: Republic of Serbia
Other information relevant to the consumer: The label is accompanied by a product declaration in Serbian.
Chemical composition: Moisture max 4%, protein min 9%, fat min 10%, ash max 7%, lactose min 60%
Usage: A dedicated product for use in the confectionery, bakery and confectionery industries. Used in the food industry for all types of whipped cream, ice cream, creams, pastries and biscuits.
Method of administration: Dissolve 130g Biolac S in 870 ml of water or according to the recipe for a particular product.

Sensor analysis

The sample consisted of mixed powder product commercial name Biolac - S. Product is a mixture of powdered whey, a concentrate of vegetable fat and protein and lactose whey, soya bean meal and aromas of sour cream.
The product is white yellowish colors in the form of fine fine powder without lumps and traces of foreign substances ..
The smell and taste: characteristic.
The product is used in the food industry (confectionery, bakery and in the manufacture of ice cream and whipped cream)
loose product has a fluid consistency, white yellowish color, characteristic odor and taste.
Method: SAM-03-001

Declaration of Conformity:

Based on the test results, the sample is IN COMPLIANCE with the manufacturers specification

Physico chemical analysis

Parameter:	Result:	(unit)	Ref. value:	Method:
Lactose	61,73 ±2,16	%		HEM-03-064
Ash	6,74 ±0,34	%		SRPS ISO 936:1998
Protein	10,03 ±0,1	%		SRPS ISO 1871:2013
Total fat	13,42 ±0,81	%		Sl. List SRFJ br. 41/87 metoda 9
Moisture	2,91 ±0,12	%		Sl. List SRFJ br. 32/83 metoda IV.1

Declaration of Conformity:

According to analytical results, the sample is IN COMPLIANCE with Manufacturing Specification

Residue / contaminant analysis

Parameter:	Result:	(unit)	Ref. value/ML:	Method:
<i>Organochlorine pesticides</i>				
-Aldrin and Dieldrin (combined expressed as dieldrin)	< 0,01	mg/kg		GC-MSD, IHM-03-Pest 01
-Chlordane (sum of cis- and trans-chlordane)	< 0,02	mg/kg		GC-MSD, IHM-03-Pest 01
-DDT (sum of p,p'-DDT, o,p'-DDT, p,p'-DDE, p,p'-DDD)	< 0,03	mg/kg		GC-MSD, IHM-03-Pest 01
-Endosulfan (alpha-,beta- isomers and endosulfan-sulphate)	< 0,03	mg/kg		GC-MSD, IHM-03-Pest 01
-Endrin	< 0,01	mg/kg		GC-MSD, IHM-03-Pest 01
-Endrin keton	< 0,01	mg/kg		GC-MSD, IHM-03-Pest 01
-Heptachlor (sum of Heptachlor and Heptachlor epoxide)	< 0,01	mg/kg		GC-MSD, IHM-03-Pest 01
-Hexachlorobenzene (HCB)	< 0,01	mg/kg		GC-MSD, IHM-03-Pest 01
-Hexachlorocyclohexane (HCH), alpha-isomer	< 0,01	mg/kg		GC-MSD, IHM-03-Pest 01
-Hexachlorocyclohexane (HCH), beta-isomer	< 0,01	mg/kg		GC-MSD, IHM-03-Pest 01
-Lindane (gamma-isomer of hexachlorocyclohexane (HCH))	< 0,01	mg/kg		GC-MSD, IHM-03-Pest 01
-Methoxychlor	< 0,01	mg/kg		GC-MSD, IHM-03-Pest 01
<i>Metals and metalloids</i>				

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Tag: **CIN-LAB-7.8/O-1** Edition 1 from January 3 2020.

No: **IU-Z-1093**

Date: 07/02/20

Lead (Pb)	< 0,20	mg/kg	GFAAS, IHM-03-AAS 01
Cadmium (Cd)	< 0,05	mg/kg	GFAAS, IHM-03-AAS 01
Mercury (Hg)	< 0,05	mg/kg	CVAAS, IHM-03-AAS 01
Arsenic (As)	< 0,10	mg/kg	HGAAS, IHM-03-AAS 01
Mycotoxins			
Aflatoxin M1	< 0,025	µg/kg	IHM-03-ELISA 02
Antibiotics			
Difloksacin	< 10	µg/kg	LC-MS/MS, IHM-03-HPLC 07
Doxycycline	< 10	µg/kg	LC-MS/MS, IHM-03-HPLC 07
Enrofloksacin	< 50	µg/kg	LC-MS/MS, IHM-03-HPLC 07
Chlortetracycline	< 10	µg/kg	LC-MS/MS, IHM-03-HPLC 07
Oxytetracycline	< 10	µg/kg	LC-MS/MS, IHM-03-HPLC 07
Sarafloksacin	< 50	µg/kg	LC-MS/MS, IHM-03-HPLC 07
Penicillin G	< 50	µg/kg	LC-MS/MS, IHM-03-HPLC 07
Spiramicin	< 50	µg/kg	LC-MS/MS, IHM-03-HPLC 07
Tetracycline	< 50	µg/kg	LC-MS/MS, IHM-03-HPLC 07
Tylosin	< 50	µg/kg	LC-MS/MS, IHM-03-HPLC 07
Ampicillin	< 50	µg/kg	LC-MS/MS, IHM-03-HPLC 07
Danofloksacin	< 50	µg/kg	LC-MS/MS, IHM-03-HPLC 07
Sulfonamides			
Sulfamethizole	< 50	µg/kg	LC-MS/MS, IHM-03-HPLC 07
Sulfahloropiridazin	< 50	µg/kg	LC-MS/MS, IHM-03-HPLC 07
Sulfamethoxypyridazine	< 50	µg/kg	LC-MS/MS, IHM-03-HPLC 07
Sulfadiazine	< 50	µg/kg	LC-MS/MS, IHM-03-HPLC 07
Sulfamethoxazole	< 50	µg/kg	LC-MS/MS, IHM-03-HPLC 07
Sulfathiazole	< 50	µg/kg	LC-MS/MS, IHM-03-HPLC 07
Sulfapyridine	< 50	µg/kg	LC-MS/MS, IHM-03-HPLC 07
Sulfadimethoxine	< 50	µg/kg	LC-MS/MS, IHM-03-HPLC 07
Sulfamerazine	< 50	µg/kg	LC-MS/MS, IHM-03-HPLC 07

Declaration of Conformity:

On the basis of the analytical results the sample IS IN COMPLIANCE with the Rulebook on the maximum levels of residues of plant protection products in food and feed and on food and feed for which maximum levels of plant protection products are set (Sl. glasnik RS no. 22/18, 90/18, 76/19 and 81/19), the Rulebook on quantities of pesticides, metals, metalloids and other poisonous substances, chemotherapeutics, anabolic and other substances which can be found in foodstuffs (Sl. list SRJ no. 5/92, 11/92 and 32/02) and the Law on genetically modified organisms (Sl. Glasnik RS no. 41/09).

NOTE: Determination of heavy metal and mycotoxin content were performed upon client's request.

Genetic analysis

Parameter:	Result:	(unit)	Ref. value/ML:	Method:
<i>Determination of the presence of GMOs</i>				
CaMV 35S promoter	n.d. (< 0,1%)	%		SRPS EN ISO 21571:2009 i A1:2013; SRPS EN ISO 21569:2008 i A1:2014
A.tum NOS terminator	n.d. (< 0,1%)	%		SRPS EN ISO 21571:2009 i A1:2013; SRPS EN ISO 21569:2008 i A1:2014
FMV 34S promoter	n.d. (< 0,1%)	%		SRPS EN ISO 21571:2009 i A1:2013; SRPS EN ISO 21569:2008 i A1:2014

Declaration of Conformity:

On the basis of the analytical results the sample IS IN COMPLIANCE with the Rulebook on the maximum levels of residues of plant protection products in food and feed and on food and feed for which maximum levels of plant protection products are set (Sl. glasnik RS no. 22/18, 90/18, 76/19 and 81/19), the Rulebook on quantities of pesticides, metals, metalloids and other poisonous substances, chemotherapeutics, anabolic and other substances which can be found in foodstuffs (Sl. list SRJ no. 5/92, 11/92 and 32/02) and the Law on genetically modified organisms (Sl. Glasnik RS no. 41/09).

NOTE: Determination of heavy metal and mycotoxin content were performed upon client's request.

Microbiological analysis

Parameter:	1	2	3	4	5	MAV	Result:	Method:
Enterobacteriaceae (incubation temperature 37°C) cfu/g	<10	<10	<10	<10	<10	c=2, m=10, M=100	Satisfactory	SRPS EN ISO 21528-2:2017

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Salmonella spp. 25g	nije nadjeno	nije nadjeno	nije nadjeno	nije nadjeno	nije nadjeno	c=0, m=0, M=0	Satisfactory SRPS EN ISO 6579-1:2017
Coagulase-positive staphylococci (incubation temperature 37°C) cfu/g	nije nadjeno	nije nadjeno	nije nadjeno	nije nadjeno	nije nadjeno	c=0, m=0, M=0	Satisfactory SRPS EN ISO 6888-1:2009

MDV - internal standard

According to analytical results the sample is in compliance with internal standard

Other analysis

IU-Z-02666 Biolac-S (Product based on whey powder, vegetable fat and proteins)

Parameter:

Apendix:

Institution:

Radioactivity

Examination report No.2020/124;
submitted 01/02/20

Veterinarski fakultet, Beograd

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***** End of the Report *****