

Expert Opinion

File No: **IU-A-1176**

Date: **06/04/22**

Applicant: BIOPROTEIN D.O.O. Bulevar Nikole Tesle 30a 11080 Zemun Bulevar Nikole Tesle 30a 11080 Zemun

Documents ref.:

Data on sample Samples submitted 31/03/22

Sample and identification number:

IU-A-03165 Biopro 50 (full fat moderately toasted soybean breakage);

Type of testing: Food safety

IU-A-03165 Sensor analysis, Physico chemical analysis (quality),
Microbiological safety upon request, Residue /contaminant analysis: heavy metals (Pb, Cd, As, Hg), pesticides, mycotoxins
(Aflatoxin and Ochratoxin A), GMO, radioactivity

Date of receipt: 31/03/22

Date of start of lab. analysis: 31/03/22
Date of completion of lab. analysis: 06/04/22

On the basis of results of laboratory analysis and expert review it was determined that the above stated sample IU-A-03165 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), 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), and Council Regulation (EC) No: 733/2018 of 15 July 2018 and 1048/2009 of 23.October 2009.

NOTE: Determination of mercury, total arsenic and ochratoxin A content were performed upon client's request and the statement of conformity does not refer to it.



Report on laboratory analysis

File No: **IU-A-1176**

Date: **06/04/22**

Data received from applicant:

Applicant: **BIOPROTEIN D.O.O.**

Bear Costs: **BIOPROTEIN D.O.O. Bulevar Nikole Tesle 30a 11080 Zemun**

Documents reff.:

Data on sample: Samples submitted 31/03/22

Sample and identification number:

IU-A-03165 Biopro 50 (full fat moderately toasted soybean breakage);

Type of testing: Food safety

IU-A-03165	Sensor analysis, Physico chemical analysis (quality), Microbiological safety upon request, Residue /contaminant analysis: heavy metals (Pb, Cd, As, Hg), pesticides, mycotoxins (Aflatoxin and Ochratoxin A), GMO, radioactivity
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Date of completion of lab. analysis: 06/04/22

Statements:

This Report refers only to the tested sample.

"Centar za ispitivanje namirnica d.o.o." has responsible over the data in this report, except for the data provided by the customer.

"Centar za ispitivanje namirnica d.o.o." has not responsible for the validity of the results, using the information provided by the customer.

When the "Centar za ispitivanje namirnica d.o.o." is not responsible for the sampling phase, the results are applied to the sample as received.

Measurement uncertainty associated with the result represents the extended measurement uncertainty expressed as a combined standard measurement uncertainty multiplied with the coverage factor $k = 2$, for a confidence level of 95%.

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No: **IU-A-1176**

Date: 06/04/22

Analysis results:

Sample: IU-A-03165 Biopro 50 (full fat moderately toasted soybean breakage)

Sample data: **

Sample: Biopro 50 (full-fat moderately toasted soybean broken grain)
lot 280322F1A4201
Food group: protein products
Sample quantity: 6 pcs
Usable until: 28.12.2022
Series (LOT): 280322F1A4201
Manufacturer: "Bioprotein" d.o.o. Bulevar Nikole Tesle Str.30A Zemun - Belgrade
Country of origin: Serbia

Sample properly submitted

Sensor analysis

The subject sample is full-fat moderately toasted soybean broken grain, under the commercial name "Biopro-50", obtained by a technological process from genetically unmodified soybean grain. The product has a fine-grained texture, pale golden color, characteristic odor, pleasant, slightly sweet taste.

□

Method: SBM-03-001

Declaration of Conformity:

The results of the examined parameters are in COMPLIANCE with Article 2, paragraphs 1 and 2 of the Rulebook on the quality of protein products and mixtures of protein products for the food industry (Sl. list SFRJ" br. 41/85, "Sl. list SCG" br. 56/03 i 4/04 - dr. pravilnik) and the manufacturers specification

Physico chemical analysis

Parameter:	Result:	(unit)	Ref. value:	Method:
Moisture content	5,68 ±0,28	%	max 8	Sl. List SRFJ br.41/85 metoda 1
Protein (in dry matter)	41,11 ±0,82	%	min 38	Sl. List SRFJ br.41/85 metoda 4
Total ash, on dry basis	4,91 ±0,25	%	max 5.5	Sl. List SRFJ br.41/85 metoda 3
Fat (in dry matter)	18,04 ±1,26	%	min 18	Sl. List SRFJ br.41/85 metoda 2
Cellulose (in dry matter)	2,29 ±0,11	%	max 4.5	Sl. List SRFJ br.41/85 metoda 6

Declaration of Conformity:

The results of the tested parameters are in COMPLIANCE with Article 24, item 1, Article 24, item 2, Article 24 item 3 and Article 24 item 4 and Article 24 item 5 of the Rulebook on the quality of protein products and mixtures of protein products for the food industry ("Sl. list SFRJ" br. 41/85, "Sl. list SCG" br. 56/03 i 4/04 - dr. pravilnik").

Applied decision rule:

The rule of shared risk (documented in article 8 of the General laboratory business rules of Centar za ispitivanje namirnica d.o.o., issue 2 of 14.02.2020)

Residue / contaminant analysis

Parameter:	Result:	(unit)	Ref. value/ML:	Method:
<i>Organophosphorus pesticides</i>				
-Cadusafos	< 0,01	mg/kg		GC-MSD, SRPS EN 15662:2018
-Chlorfenvinphos	< 0,01	mg/kg		GC-MSD, SRPS EN 15662:2018
-Chlorpyrifos	< 0,01	mg/kg		GC-MSD, SRPS EN 15662:2018
-Chlorpyrifos-Methyl	< 0,01	mg/kg		GC-MSD, SRPS EN 15662:2018
-Diazinon	< 0,01	mg/kg		GC-MSD, SRPS EN 15662:2018
-Dichlorvos	< 0,01	mg/kg		GC-MSD, SRPS EN 15662:2018
-Dimethoate	< 0,01	mg/kg		GC-MSD, SRPS EN 15662:2018
-Etrimfos	< 0,01	mg/kg		GC-MSD, SRPS EN 15662:2018
-Fenitrothion	< 0,01	mg/kg		GC-MSD, SRPS EN 15662:2018
-Fenthion	< 0,01	mg/kg		GC-MSD, SRPS EN 15662:2018
-Malathion	< 0,01	mg/kg		GC-MSD, SRPS EN 15662:2018
-Methacrifos	< 0,01	mg/kg		GC-MSD, SRPS EN 15662:2018
-Parathion	< 0,01	mg/kg		GC-MSD, SRPS EN 15662:2018
-Parathion-Methyl	< 0,01	mg/kg		GC-MSD, SRPS EN 15662:2018
-Phosphamidon	< 0,01	mg/kg		GC-MSD, SRPS EN 15662:2018
-Pirimiphos-Methyl	< 0,01	mg/kg		GC-MSD, SRPS EN 15662:2018
-Profenofos	< 0,01	mg/kg		GC-MSD, SRPS EN 15662:2018
-Sulprofos	< 0,01	mg/kg		GC-MSD, SRPS EN 15662:2018

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*) Non accredited activities. **) The data provided by customer.

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

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Date: 06/04/22

Carbamates

-Carbaryl	< 0,01	mg/kg	GC-MSD, SRPS EN 15662:2018
-Methiocarb	< 0,01	mg/kg	GC-MSD, SRPS EN 15662:2018
-Methomyl	< 0,01	mg/kg	GC-MSD, SRPS EN 15662:2018
-Oxamyl	< 0,01	mg/kg	GC-MSD, SRPS EN 15662:2018
-Pirimicarb	< 0,01	mg/kg	GC-MSD, SRPS EN 15662:2018
-Propoxur	< 0,01	mg/kg	GC-MSD, SRPS EN 15662:2018

Triazines

-Atrazine	< 0,01	mg/kg	GC-MSD, SRPS EN 15662:2018
-Cyanazine	< 0,01	mg/kg	GC-MSD, SRPS EN 15662:2018
-Prometon	< 0,01	mg/kg	GC-MSD, SRPS EN 15662:2018
-Propazine	< 0,01	mg/kg	GC-MSD, SRPS EN 15662:2018
-Simazine	< 0,01	mg/kg	GC-MSD, SRPS EN 15662:2018
-Terbutylazine	< 0,01	mg/kg	GC-MSD, SRPS EN 15662:2018

Pyrethroids

-Bifenthrin	< 0,01	mg/kg	GC-MSD, SRPS EN 15662:2018
-Fenvalerate (sum of isomers, including esfenvalerate)	< 0,01	mg/kg	GC-MSD, SRPS EN 15662:2018
-Permethrin (sum of isomers)	< 0,01	mg/kg	GC-MSD, SRPS EN 15662:2018
-S-Bioallethrin	< 0,01	mg/kg	GC-MSD, SRPS EN 15662:2018

Organochlorine pesticides

-Aldrin and Dieldrin (combined expressed as dieldrin)	< 0,01	mg/kg	GC-MSD, SRPS EN 15662:2018
-Chlordane (sum of cis- and trans-chlordane)	< 0,02	mg/kg	GC-MSD, SRPS EN 15662:2018
-DDT (sum of p,p'-DDT, o,p'-DDT, p,p'-DDE, p,p'-DDD)	< 0,03	mg/kg	GC-MSD, SRPS EN 15662:2018
-Endosulfan (alpha-,beta- isomers and endosulfan-sulphate)	< 0,03	mg/kg	GC-MSD, SRPS EN 15662:2018
-Endrin	< 0,01	mg/kg	GC-MSD, SRPS EN 15662:2018
-Heptachlor (sum of Heptachlor and Heptachlor epoxide)	< 0,01	mg/kg	GC-MSD, SRPS EN 15662:2018
-Hexachlorobenzene (HCB)	< 0,01	mg/kg	GC-MSD, SRPS EN 15662:2018
-Hexachlorocyclohexane (HCH), alpha-isomer	< 0,01	mg/kg	GC-MSD, SRPS EN 15662:2018
-Hexachlorocyclohexane (HCH), beta-isomer	< 0,01	mg/kg	GC-MSD, SRPS EN 15662:2018
-Lindane (gamma-isomer of hexachlorocyclohexane (HCH))	< 0,01	mg/kg	GC-MSD, SRPS EN 15662:2018
-Methoxychlor	< 0,01	mg/kg	GC-MSD, SRPS EN 15662:2018

Metals and metalloids

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 B1 and total (B1+B2+G1+G2)	< 4	µg/kg	IHM-03-ELISA 01a
Aflatoxin B1	< 2	µg/kg	IHM-03-ELISA 01b
Ochratoxin A	< 2	µg/kg	IHM-03-ELISA 10

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	
<i>Content RoundUp Ready soybeans</i>				
RoundUp Ready soybeans	n.d. (< 0,1%)	%	SRPS EN ISO 21571:2009 i A1:2013; SRPS EN ISO 21570:2009 i A1:2014	

Declaration of Conformity:

Results of tested parameters ARE IN COMPLIANCE with the Rulebook on the maximum levels of residues of plant protection products in food and feed ("Sl. glasnik RS" no. 132/20), the Rulebook on maximum levels of certain contaminants in food ("Sl. glasnik RS" no. 81/19, 126/20, 90/21 and 118/21) and the Law on genetically modified organisms ("Sl. glasnik RS" no. 41/09).

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Applied decision rule:

The rule of shared risk (documented in article 8 of the General laboratory business rules of Centar za ispitivanje namirnica d.o.o., issue 2 of 14.02.2020)

NOTE: Determination of mercury, total arsenic and ochratoxin A content were performed upon client's request and the statement of conformity does not refer to it.

Microbiological analysis

Parameter:	1	2	3	4	5	MAV	Result:	Method:
Bacillus cereus (incubation temp.30°C) cfu/g	<100	<100	<100	<100	<100	c=1, m=100, M=1000	Satisfactory	SRPS EN ISO 7932:2009
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
Total plate count cfu/g	1900	1800	2200	2100	2300	c=2, m=10000, M=100000	Satisfactory	SRPS EN ISO 4833-1:2014
Clostridium perfringens cfu/g	<10	<10	<10	<10	<10	c=1, m=10, M=100	Satisfactory	SRPS EN ISO 7937:2010
Listeria monocytogenes 25g	not found	not found	not found	not found	not found	c=0, m=0, M=0	Satisfactory	SRPS EN ISO 11290-1:2017
Salmonella spp. 25g	not found	not found	not found	not found	not found	c=0, m=0, M=0	Satisfactory	SRPS EN ISO 6579-1:2017
Escherichia coli 10g	not found	not found	not found	not found	not found	c=5, m=0, M=10	Satisfactory	MBM-03-027
Mould and yeast (aw less than or equal to 0.95) cfu/g	<100	<100	<100	<100	<100	c=2, m=100, M=1000	Satisfactory	SRPS ISO 21527-2:2011

MDV - internal standard.

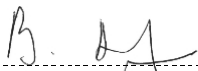
Results of tested parameters ARE IN COMPLIANCE with internal standard

Other analysis

IU-A-03165 Biopro 50 (full fat moderately toasted soybean breakage)

Parameter:	Apendix:	Institution:
Radioactivity	Examination report No. 2022/572; submitted 05/04/22	Veterinarski fakultet, Beograd

Head/Heads of Departments



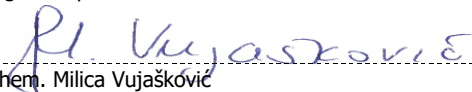
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MSc. biochem. Milica Vujašković
Instrumental Chemistry department



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spec. dr vet. Aleksandra Anđelković

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