CENTAR ZA ISPITIVANJE NAMIRNICA d.o.o. Center for food analysis
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265-1630310003954-87 Raiffeisen Bank AD Beograd, 160-315578-62 Banca Intesa AD Beograd

Expert Opinion

File No: **IU-D-568**
Date: 18/06/20

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 12/06/20

Sample and identification number:

IU-D-01248 Biopro 20L (light low fat moderately tosted soft soybean powder);

Type of testing: Food safety

IU-D-01248 Quality: sensor analysis and physico chemical analysis, Physico chemical residue /contaminant analysis: pesticides, heavy metals - Pb, Cd, As, Hg, mycotixins, RH, GMO, Microbiological analysis upon request

Date of receipt: 12/06/20

Date of start of lab. analysis: 12/06/20
Date of completion of lab. analysis: 18/06/20

On the basis of results of laboratory analysis and expert review it was determined that the above stated sample IU-D-01248 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 foodstaffs (OJ L 364/5), Council Regulation (EC) No: 733/2018 of 15 July 2018 and 1048/2009 of 23.October 2009, Regulation (EC) No 1829/2003 on genetically modified food and feed (OJ L 268/1) and 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

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Report on laboratory analysis

File No: **IU-D-568**
Date: 18/06/20

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 12/06/20

Sample and identification number:

IU-D-01248 Biopro 20L (light low fat moderately tosted soft soybean powder);

Type of testing: Food safety

IU-D-01248	Quality: sensor analysis and physico chemical analysis, Physico chemical residue /contaminant analysis: pesticides, heavy metals - Pb, Cd, As, Hg, mycotixins, RH, GMO, Microbiological analysis upon request

Date of receipt: 12/06/20

Date of start of lab. analysis: 12/06/20
Date of completion of lab. analysis: 18/06/20

Statements:

This Report refers only to the tested sample.
"Centar za ispitivanje namirnica d.o.o." has responsibile 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.
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No: **IU-D-568**
Date: 18/06/20

Analysis results:

Sample: IU-D-01248 Biopro 20L (light low fat moderately tosted soft soybean powder)

Sample data: **

Sample: Biopro 20L (light low-fat moderately toasted soft soy flour)
Food group: protein products
Original packaging:/
Sample quantity: 3 kg
Net quantity: 25 kg
Best used until: 20.05.2021.
Series (LOT): 200520F1A6989
Manufacturer: "Bioprotein" d.o.o. Bulevar Nikole Tesle st.30A Zemun, Serbia
Country of origin: Serbia

Sample properly submitted

Sensor analysis

The subject sample is a low-fat moderately toasted soft soy flour under the commercial name " Biopro-20-L" obtained by a technological process from grains of genetically unmodified soybeans, by removing oils and non-protein substances. The product has a powdery texture of golden-yellow color, characteristic odor, pleasant slightly sweet taste.

Method: SBM-03-001

Declaration of Conformity:

On the basis of the analytical results, the sample is in COMPLIANCE with Article 1 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)

Physico chemical analysis

Parameter:	Result:	(unit)	Ref. value:	Method:
Moisture content	1,91 ±0,1	%	max 8	Sl. List SRFJ br.41/85 metoda 1
Protein (in dry matter)	48,14 ±0,96	%	min 45	Sl. List SRFJ br.41/85 metoda 4
Total ash, on dry basis	5,23 ±0,26	%	max 6.5	Sl. List SRFJ br.41/85 metoda 3
Fat (in dry matter)	8,95 ±0,63	%	max 9	Sl. List SRFJ br.41/85 metoda 2
Cellulose (in dry matter)	1,34 ±0,07	%	max 3.5	Sl. List SRFJ br.41/85 metoda 6

Declaration of Conformity:

On the basis of the analytical results, the sample is in COMPLIANCE with Article 25, item 2, Article 25, item 1, Article 25, item 5, Article 25, item 3, Article 25, item 4, 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)

Residue / contaminant analysis

Parameter:	Result:	(unit)	Ref. value/ML:	Method:
Organophosphorus pesticides				
-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
Carbamates				

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No: **IU-D-568**
Date: 18/06/20

-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
-Terbuthylazine	< 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
-Permetrin (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)	< 0,10	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)	< 4,0	µg/kg	IHM-03-ELISA 01a
Aflatoxin B1	< 2,0	µg/kg	IHM-03-ELISA 01b

Genetic analysis

Parameter:	Result:	(unit)	Ref. value/ML:	Methda:
Determination of the presence of GMOs				
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
Content RoundUp Ready soybeans				
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:

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 maximum levels of certain contaminants in foodstuffs (Sl. glasnik RS no. 81/19) and the Law on genetically modified organisms (Sl. Glasnik RS no. 41/09).

NOTE: Determination of heavy metals (Hg, As) were performed upon client's request.

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No: **IU-D-568**
Date: 18/06/20

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
Escherichia coli cfu/g	<10	<10	<10	<10	<10	c=0, M=10	Satisfactory	SRPS ISO 16649-2:2008
Total plate count cfu/g	700	800	500	650	400	c=2, m=10000, M=100000	Satisfactory	SRPS EN ISO 4833-1:2014
Clostidium perfrigens cfu/g	<10	<10	<10	<10	<10	c=0, m=10, M=100	Satisfactory	SRPS ISO 15213:2011
Listeria monocytogenes 25g	0	0	0	0	0	c=0, m=0, M=0	Satisfactory	SRPS EN ISO 11290-1:2017
Salmonella spp. 25g	0	0	0	0	0	c=0, m=0, M=0	Satisfactory	SRPS EN ISO 6579-1:2017
Coliform bacteria /g	<10	<10	<10	<10	<10	c=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 - Manufacturing Specification
According to analytical results, the sample is IN COMPLIANCE with Manufacturing Specification

Other analysis

IU-D-01248 Biopro 20L (light low fat moderately tosted soft soybean powder)

Parameter:	Apendix:	Institution:
Radioactivity	Examination report No.2020/744; submitted 16/06/20	Veterinarski fakultet, Beograd

Head/Heads of Departments

Vladimir Atić, MSc, Graduate Engeneer of Tehnology
Sensor analysis department

Kristina Lazarević, PhD, Specialist in Chemistry
Chemistry department

Marija M. Stojanović, PhD, Doctor of veterinary medicine
Microbiological department

Milica Jovetić, PhD, Specialist in Sanitary Chemistry
Instrumental Chemistry department

Head of laboratory
Milan Simić PhD, Hygiene Specialist

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

Faculty of Veterinary medicine
Universitiy of Belgrade
Department of Radiology and
Radiation hygiene
Bulevar Oslobođenja 18
Belgrade
Serbia

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ATC
01-122
ЛАБОРАТОРИЈА
ЗА ИСПИТИВАЊЕ
ISO/IEC 17025

Client
» Center for food analysis«
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Tel. 011-2625-077

Department of Radiology and
Radiation hygiene
Tel. 011-2685-291
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E-mail: radijacija@vet.bg.ac.rs

SUBJECT: EXAMINATION REPORT NO. 2020/744

SAMPLE ACCEPTANCE DATE: 15.06.2020.
DATE OF ISSUING REPORT: 16.06.2020.

According to your requirement No. IU – D – 568 dated 12/06/2020., the examination regarding the presence of radionuclides is done within the delivered sample and the following report has been made:

1. **Sample:**
   IU – D – 01248 Biopro 20L (light low fat moderately toasted soft soybean powder)
2. **Quantity/mass:/**
3. **Country of Origin: /**
4. **Importer:/**
5. **Vehicle number:/**
6. **Sampler:/**
7. **Link to sampling proceedings:/**
8. **Investigation method:** The sample preparation included homogenization and weighing into a suitable container (IAEA TRS 295). The examination has been done by the method of low-level gamma spectrometry on HPGe detector based on IAEA TRS 295. For detector calibration Czech Metrological Institute referents standards were used.
9. **Results:**

Radionuclide content in the sample (Bq /kg)		ACCORDING REGULATIONS
^{137}Cs	< 0,5	YES
^{40}K	768 ± 33	

10. **Conclusion:** The results of measured radioactivity in the delivered sample show **no radionuclide presence beyond the regulations** (Council Regulation (EC) No: 733/2008 of 15 July 2008 and 1048/2009 of 23.October 2009.)

Deliver to:
1.Client
2.Archive

VETERINARSKI UNIVERZITETA U BEOGRADU

Examiner:
dr vet.med. Borjana Vranješ
asistent

Head of Department:
Redovni profesor
Dr sci. vet.med. Nikola Kristić

1. It is forbidden to distrubuted analysis results without approval from Faculty of veterinary medicine, Department for Radiology and radiation Hygiene
2. Results are valid only for examined sample.