

Expert Opinion

File No: **IU-J-1048**

Date: **08/05/18**

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

Documents reff.:

Type of testing: Food safety (quality; pesticides, heavy metals, mycotoxins, radioactivity; GMO; microbiological safety)

Sample and identification number:

IU-J-03254 Biopro 35 (Full fat moderately toasted hard soybean powder);

Data on sample Samples submitted 30/04/18

Date of receipt: 30/04/18

Date of completion of lab. analysis: 08/05/18

On the basis of results of laboratory analysis and expert review it was determined that the above stated sample IU-J-03254 from the standpoint 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 1048/2009 of 23 October 2009.

The results of microbiological tested parameters are corresponding to the manufacturer specification.

Head of laboratory

Milan Simić PhD, Hygiene Specialist



Report on laboratory analysis

File No: **IU-J-1048**

Date: **08/05/18**

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

Documents ref.:

Type of testing: Food safety (quality; pesticides, heavy metals, mycotoxins, radioactivity; GMO; microbiological safety)

Sample and identification number:

IU-J-03254 Biopro 35 (Full fat moderately toasted hard soybean powder);

Data on sample Samples submitted 30/04/18

Date of receipt: 30/04/18

Date of completion of lab. analysis: 08/05/18

Analysis results:

Identification

IU-J-03254 Biopro 35 (Full fat moderately toasted hard soybean powder)

Sample: Biopro 35 (Full fat moderately toasted hard soybean powder)

Food group: Protein products

Samples: 2 kg

Net weight: 25 kg

Best used until: 24.12.2018.

Series (LOT): 077F18

Producer: "Bioprotein" d.o.o. Bulevar Nikole Tesle 30a, Zemun, Serbia

Country of Origin: Serbia

Sensor analysis

IU-J-03254 Biopro 35 (Full fat moderately toasted hard soybean powder)

The subject sample is a full-fat, moderately toasted, sharp soybean meal under the commercial name "Biopro-35" obtained by the technological process from the grain of genetically unmodified soybeans, by removing non-protein materials. The product is a powdery texture of light yellowish-brownish color, distinctive odor, pleasant little sweet taste.

Method: SBM-03-001

Physico chemical analysis

IU-J-03254 Biopro 35 (Full fat moderately toasted hard soybean powder)

Parameter:	Result: (unit)	Method:
Ash (calculated in dry matter)	5,22 %	Sl. list SFRJ 41:1985, met. 3
Cellulose (as dry basis)	2,54 %	Sl. list SFRJ 41:1985, met. 6
proteins (calculated in dry matter)	38,84 %	Sl. list SFRJ 41:1985, met. 4
Moisture	3,14 %	Sl. list SFRJ 41:1985, met. 1
Fat (calculated on the dry matter)	22,10 %	Sl. list SFRJ 41:1985, met. 2

Analysis of harmful matters

IU-J-03254 Biopro 35 (Full fat moderately toasted hard soybean powder)

Parameter:	Result: (unit)	Method:
<i>Organophosphorus pesticides</i>		
- Chlorpyrifos (Dursban)	< 0,01 mg/kg	GC-MSD, SRPS EN 15662:2012
- Chlorpyrifos methyl	< 0,01 mg/kg	GC-MSD, SRPS EN 15662:2012
- Diazinon	< 0,01 mg/kg	GC-MSD, SRPS EN 15662:2012
- Dichlorvos	< 0,01 mg/kg	GC-MSD, SRPS EN 15662:2012
- Dimethoate	< 0,01 mg/kg	GC-MSD, SRPS EN 15662:2012
- Disulfoton	< 0,01 mg/kg	GC-MSD, SRPS EN 15662:2012
- Etrimfos	< 0,01 mg/kg	GC-MSD, SRPS EN 15662:2012
- Famfur	< 0,01 mg/kg	GC-MSD, SRPS EN 15662:2012
- Fenitrothion	< 0,01 mg/kg	GC-MSD, SRPS EN 15662:2012
- Forat	< 0,01 mg/kg	GC-MSD, SRPS EN 15662:2012
- Malathion	< 0,01 mg/kg	GC-MSD, SRPS EN 15662:2012

No: **IU-J-1048**

Date: **08/05/18**

- Methacrifos	< 0,01 mg/kg	GC-MSD, SRPS EN 15662:2012
- Methyl parathion	< 0,01 mg/kg	GC-MSD, SRPS EN 15662:2012
- Parathion	< 0,01 mg/kg	GC-MSD, SRPS EN 15662:2012
- Phosphamidon	< 0,01 mg/kg	GC-MSD, SRPS EN 15662:2012
- Pirimiphos methyl	< 0,01 mg/kg	GC-MSD, SRPS EN 15662:2012
- Sulfotep	< 0,01 mg/kg	GC-MSD, SRPS EN 15662:2012
- Thionazin	< 0,01 mg/kg	GC-MSD, SRPS EN 15662:2012
Carbamates		
- Carbaryl	< 0,01 mg/kg	GC-MSD, SRPS EN 15662:2012
- Carbofuran	< 0,01 mg/kg	GC-MSD, SRPS EN 15662:2012
- Methiocarb	< 0,01 mg/kg	GC-MSD, SRPS EN 15662:2012
- Methomyl	< 0,01 mg/kg	GC-MSD, SRPS EN 15662:2012
- Oxamyl	< 0,01 mg/kg	GC-MSD, SRPS EN 15662:2012
- Propoxur	< 0,01 mg/kg	GC-MSD, SRPS EN 15662:2012
Triazines		
- Cyanazine (bladex)	< 0,01 mg/kg	GC-MSD, SRPS EN 15662:2012
- Desethylatrazine	< 0,01 mg/kg	GC-MSD, SRPS EN 15662:2012
- Desisopropylatrazine	< 0,01 mg/kg	GC-MSD, SRPS EN 15662:2012
- Prometon	< 0,01 mg/kg	GC-MSD, SRPS EN 15662:2012
- Propazine	< 0,01 mg/kg	GC-MSD, SRPS EN 15662:2012
- Simazine	< 0,01 mg/kg	GC-MSD, SRPS EN 15662:2012
Pyrethroids		
- Bifenthrin	< 0,01 mg/kg	GC-MSD, SRPS EN 15662:2012
- Fenvalerate	< 0,01 mg/kg	GC-MSD, SRPS EN 15662:2012
- Permetrin	< 0,01 mg/kg	GC-MSD, SRPS EN 15662:2012
- S-Bioallethrin	< 0,01 mg/kg	GC-MSD, SRPS EN 15662:2012
Organochlorine pesticides		
-Endrin	< 0,01 mg/kg	GC-MSD, SRPS EN 15662:2012
-Heptachlor (sum of heptachlor and heptachlor epoxide)	< 0,01 mg/kg	GC-MSD, SRPS EN 15662:2012
-Hexachlorobenzene (HCB)	< 0,01 mg/kg	GC-MSD, SRPS EN 15662:2012
Lindane (gama-Isomer of HCH)	< 0,01 mg/kg	GC-MSD, SRPS EN 15662:2012
HCH (alpha, delta and beta isomers)	< 0,01 mg/kg	GC-MSD, SRPS EN 15662:2012
Aldrin and dieldrin	< 0,01 mg/kg	GC-MSD, SRPS EN 15662:2012
-Dieldrin	< 0,01 mg/kg	GC-MSD, SRPS EN 15662:2012
DDT and its derivatives	< 0,01 mg/kg	GC-MSD, SRPS EN 15662:2012
Endosulfan (alpha, beta and sulphate isomers)	< 0,01 mg/kg	GC-MSD, SRPS EN 15662:2012
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)	< 0,10 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

IU-J-03254 Biopro 35 (Full fat moderately toasted hard soybean powder)

Parameter:	Result: (unit)	Method:
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

No: **IU-J-1048**

Date: **08/05/18**

Microbiological analysis

IU-J-03254 Biopro 35 (Full fat moderately toasted hard soybean powder)

Parameter:	Result:	Method:
Bacillus cereus (incubation temp.30°C) cfu/g n= 5 c= 1 m= 1000 M= 10000	Satisfactory I <100 II <100 III <100 IV <100 V <100	SRPS EN ISO 7932:2009
Enterobacteriaceae (incubation temperature 37°C) cfu/g n= 5 c= 2 m= 10 M= 100	Satisfactory I <10 II <10 III <10 IV <10 V <10	SRPS ISO 21528-2:2009
Listeria monocytogenes 25g n= 5 c= 0 m= 0 M= 0	Satisfactory I 0 II 0 III 0 IV 0 V 0	SRPS EN ISO 11290-1:2010
Salmonella spp. 25g n= 5 c= 0 m= 0 M= 0	Satisfactory I 0 II 0 III 0 IV 0 V 0	SRPS EN ISO 6579:2008
Total plate count cfu/g n= 5 c= 2 m= 10000 M= 100000	Satisfactory I 5400 II 5100 III 6500 IV 5900 V 4700	SRPS EN ISO 4833-1:2014
Clostridium perfringens cfu/g n= 5 c= 1 m= 100 M= 1000	Satisfactory I <10 II <10 III <10 IV <10 V <10	SRPS EN ISO 7937:2010
Mould and yeast (aw less than or equal to 0.95) cfu/g n= 5 c= 2 m= 100 M= 1000	Satisfactory I <100 II <100 III <100 IV <100 V <100	SRPS ISO 21527-1:2011

Other analysis

IU-J-03254 Biopro 35 (Full fat moderately toasted hard soybean powder)

Parameter:	Appendix:	Institution:
Radioactivity	Examination report no.2018/790; submitted 04/05/18	Veterinarski fakultet, Beograd

No: **IU-J-1048**

Date: **08/05/18**

Head/Heads of Departments


Vladimir Atić, MSc, Graduate Engineer of Tehnology


Margarita Dodevska, PhD, Specialist in Sanitary Chemistry


Marija M. Stojanović, PhD, Doctor of veterinary medicine


Smiljana Raičević, PhD, Graduate Chemist

Head of laboratory


Milan Simić PhD, Hygiene Specialist

