

Expert Opinion

File No: **IU-K-1222**
Date: **04/01/20**

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 and microbiological safety)
Sample and identification number:
IU-K-03220 Biopro 35 (full fat moderately toasted hard soybean powder);
Data on sample Samples submitted 25/12/19
Date of receipt: 25/12/19 Date of completion of lab. analysis: 04/01/20

On the basis of results of laboratory analysis and expert review it was determined that the above stated sample IU-K-03220 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.733/2008 of 15 July 2008 and 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

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Analysis results:

Identification

IU-K-03220 Biopro 35 (full fat moderately toasted hard soybean powder)

Sample: Biopro 35 (full - fat moderate toasted sharp soybean flour)

Food group: protein products

Sample quantity: 1500 g

Best used by: 02.09.2020.

Series (LOT): 021219F3A6960

Manufacturer: "Bioprotein" d.o.o. Bulevar Nikole Tesle 30A, Zemun, Srbija

Country of origin: Serbia

Sensor analysis

IU-K-03220 Biopro 35 (full fat moderately toasted hard soybean powder)

The subject sample is a full-fat, moderately toasted, sharp soybean flour 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, a characteristic odor, pleasant a little sweet taste.

Method: SBM - 03 - 001

Physico chemical analysis

IU-K-03220 Biopro 35 (full fat moderately toasted hard soybean powder)

Parameter:	Result: (unit)	Method:
Ash (calculated in dry matter)	5,38 %	Sl. list SFRJ 41:1985, met. 3
Cellulose (as dry basis)	2,93 %	Sl. list SFRJ 41:1985, met. 6
proteins (calculated in dry matter)	41,46 %	Sl. list SFRJ 41:1985, met. 4
Moisture	3,51 %	Sl. list SFRJ 41:1985, met. 1
Fat (calculated on the dry matter)	21,86 %	Sl. list SFRJ 41:1985, met. 2

Analysis of harmful matters

IU-K-03220 Biopro 35 (full fat moderately toasted hard soybean powder)

Parameter:	Result: (unit)	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
-Etrifos	< 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

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-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		
-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)	< 0,10 mg/kg	GFAAS, 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-K-03220 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

Results of research refer exclusively to the submitted samples. The report was forbidden to copy without the consent of the Center for food analysis

It's not permit to point out the name of Laboratory "Centar za ispitivanje namirnica" in the declaration or for other marketing purposes.

*) Testing sample/Method is out of the scope of accreditation.

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Microbiological analysis

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Parameter:	Result:	Method:
Bacillus cereus (incubation temp.30°C) cfu/g	Satisfactory	SRPS EN ISO 7932:2009
n= 5	I <100	
c= 1	II <100	
m= 1000	III <100	
M= 10000	IV <100	
	V <100	
Enterobacteriaceae (incubation temperature 37°C) cfu/g	Satisfactory	SRPS EN ISO 21528-2:2017
n= 5	I <10	
c= 2	II <10	
m= 10	III <10	
M= 100	IV <10	
	V <10	
Total plate count cfu/g	Satisfactory	SRPS EN ISO 4833-1:2014
n= 5	I 300	
c= 2	II 200	
m= 10000	III 200	
M= 100000	IV 400	
	V 200	
Clostridium perfringens cfu/g	Satisfactory	SRPS EN ISO 7937:2010
n= 5	I <100	
c= 1	II <100	
m= 100	III <100	
M= 1000	IV <100	
	V <100	
Listeria monocytogenes 25g	Satisfactory	SRPS EN ISO 11290-1:2017
n= 5	I 0	
c= 0	II 0	
m= 0	III 0	
M= 0	IV 0	
	V 0	
Salmonella spp. 25g	Satisfactory	SRPS EN ISO 6579-1:2017
n= 5	I 0	
c= 0	II 0	
m= 0	III 0	
M= 0	IV 0	
	V 0	
Mould and yeast (aw less than or equal to 0.95) cfu/g	Satisfactory	SRPS ISO 21527-2:2011
n= 5	I <100	
c= 2	II <100	
m= 100	III <100	
M= 1000	IV <100	
	V <100	

Other analysis

IU-K-03220 Biopro 35 (full fat moderately toasted hard soybean powder)

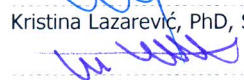
Parameter:	Appendix:	Institution:
Radioactivity	Examination report No.2019/1935; submitted 30/12/19	Veterinarski fakultet, Beograd

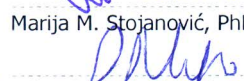
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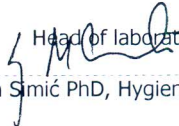
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