

Expert Opinion

File No: **IU-Z-75**

Date: **17/01/19**

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

Documents ref.:

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

Sample and identification number:

IU-Z-00181 Biopro 21 (Low fat fully toasted soft soybean powder);

Data on sample Samples submitted 09/01/19

Date of receipt: 09/01/19

Date of completion of lab. analysis: 17/01/19

On the basis of results of laboratory analysis and expert review it was determined that the above stated sample IU-Z-00181 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.733/2018 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-Z-00181 Biopro 21 (Low fat fully toasted soft soybean powder)

Sample: Biopro 21 (Low-fat fully toasted soft soybean flour)
Food group: Protein products
Quantity of sample: 1500 g
Net weight: 25 kg
Best used until: 04/01/2020.
Series (LOT): 040119F2A1879- (004F19)
Producer: "Bioprotein" d.o.o. Bulevar Nikole Tesle 30A, Zemun, Serbia
Country of Origin: Serbia

Sensor analysis

IU-Z-00181 Biopro 21 (Low fat fully toasted soft soybean powder)

The subject sample is a low-fat fully toasted soft soybean meal under the commercial name " Biopro-21", obtained by a technological process from the grain of genetically unmodified soybeans, removing non-protein materials. The product is powdery texture, pale cream brown color, distinctive odor and pleasant, little sweet taste.

Method: SBM-03-001

Physico chemical analysis

IU-Z-00181 Biopro 21 (Low fat fully toasted soft soybean powder)

Parameter:	Result: (unit)	Method:
Ash (calculated in dry matter)	6,27 %	Sl. list SFRJ 41:1985, met. 3
Cellulose (as dry basis)	2,35 %	Sl. list SFRJ 41:1985, met. 6
proteins (calculated in dry matter)	50,46 %	Sl. list SFRJ 41:1985, met. 4
Moisture	1,63 %	Sl. list SFRJ 41:1985, met. 1
Fat (calculated on the dry matter)	5,63 %	Sl. list SFRJ 41:1985, met. 2

Analysis of harmful matters

IU-Z-00181 Biopro 21 (Low fat fully toasted soft soybean powder)

Parameter:	Result: (unit)	Method:
<i>Organophosphorus pesticides</i>		
-Cadusafos	< 0,01 mg/kg	GC-MSD, SRPS EN 15662:2012
-Chlorfenvinphos	< 0,01 mg/kg	GC-MSD, SRPS EN 15662:2012
-Chlorpyrifos	< 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
-Etrifos	< 0,01 mg/kg	GC-MSD, SRPS EN 15662:2012
-Fenitrothion	< 0,01 mg/kg	GC-MSD, SRPS EN 15662:2012
-Fenthion	< 0,01 mg/kg	GC-MSD, SRPS EN 15662:2012

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-Malathion	< 0,01 mg/kg	GC-MSD, SRPS EN 15662:2012
-Methacrifos	< 0,01 mg/kg	GC-MSD, SRPS EN 15662:2012
-Parathion	< 0,01 mg/kg	GC-MSD, SRPS EN 15662:2012
-Parathion-Methyl	< 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
-Profenofos	< 0,01 mg/kg	GC-MSD, SRPS EN 15662:2012
-Sulprofos	< 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		
-Atrazine	< 0,01 mg/kg	GC-MSD, SRPS EN 15662:2012
-Cyanazine	< 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
-Terbutylazine	< 0,01 mg/kg	GC-MSD, SRPS EN 15662:2012
Pyrethroids		
-Bifenthrin	< 0,01 mg/kg	GC-MSD, SRPS EN 15662:2012
-Fenvalerate (sum of isomers, including esfenvalerate)	< 0,01 mg/kg	GC-MSD, SRPS EN 15662:2012
-Permethrin (sum of isomers)	< 0,01 mg/kg	GC-MSD, SRPS EN 15662:2012
-S-Bioallethrin	< 0,01 mg/kg	GC-MSD, SRPS EN 15662:2012
Organochlorine pesticides		
-Aldrin and Dieldrin (combined expressed as dieldrin)	< 0,01 mg/kg	GC-MSD, SRPS EN 15662:2012
-Chlordane (sum of cis- and trans-chlordane)	< 0,02 mg/kg	GC-MSD, SRPS EN 15662:2012
-DDT (sum of p,p'-DDT, o,p'-DDT, p,p'-DDE, p,p'-DDD)	< 0,03 mg/kg	GC-MSD, SRPS EN 15662:2012
-Endosulfan (alpha-, beta- isomers and endosulfan-sulphate)	< 0,03 mg/kg	GC-MSD, SRPS EN 15662:2012
-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
-Hexachlorocyclohexane (HCH), alpha-isomer	< 0,01 mg/kg	GC-MSD, SRPS EN 15662:2012
-Hexachlorocyclohexane (HCH), beta-isomer	< 0,01 mg/kg	GC-MSD, SRPS EN 15662:2012
-Lindane (gamma-isomer of hexachlorocyclohexane (HCH))	< 0,01 mg/kg	GC-MSD, SRPS EN 15662:2012
-Methoxychlor	< 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-Z-00181 Biopro 21 (Low fat fully toasted soft 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

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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

Microbiological analysis

IU-Z-00181 Biopro 21 (Low fat fully toasted soft soybean powder)

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	
Clostridium perfringens cfu/g	Satisfactory	SRPS EN ISO 7937:2010
n= 5	I <10	
c= 1	II <10	
m= 100	III <10	
M= 1000	IV <10	
	V <10	
Listeria monocytogenes 25g	Satisfactory	SRPS EN ISO 11290-1:2017
n= 5	I 0	
c= 0	II 0	
m=	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=	III 0	
M= 0	IV 0	
	V 0	
Aerobic mesophilic bacteria cfu/g	Satisfactory	SRPS EN ISO 4833-1:2014
n= 5	I 200	
c= 2	II 100	
m= 10000	III 400	
M= 100000	IV 100	
	V 200	
Mould and yeast (aw less than or equal to 0.95) cfu/g	Satisfactory	SRPS ISO 21527-1:2011
n= 5	I <100	
c= 2	II <100	
m= 100	III <100	
M= 1000	IV <100	
	V <100	

Other analysis

IU-Z-00181 Biopro 21 (Low fat fully toasted soft soybean powder)

Parameter: Appendix: Institution:

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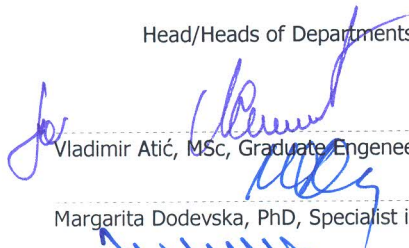
Date: 17/01/19

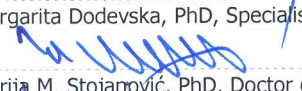
Radioactivity

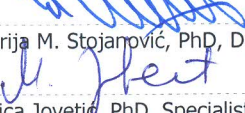
Examination report No.2019/7;
submitted 12/01/19

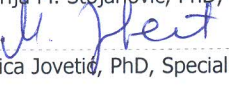
Veterinarski fakultet, Beograd

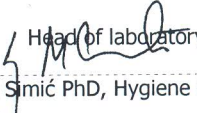
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