

Expert Opinion

File No: **IU-D-1122**


Date: 09/07/18

Applicant: Fabrika proteina i ulja BIOPROTEIN d.o.o. Bulevar Nikole Tesle 30a 11080 Zemun
Documents reff.:
Type of testing: Food safety (quality, urease activity, pesticides, heavy metals, mycotixins, radioactivity, GMO, microbiological safety)
Sample and identification number:
IU-D-03274 Biopro 25 (low fat moderately toasted hard soybean powder);
Data on sample Samples submitted 30/06/18
Date of receipt: 30/06/18 Date of completion of lab. analysis: 09/07/18

On the basis of results of laboratory analysis and expert review it was determined that the above stated sample IU-D-03274 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

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Analysis results:

Identification

IU-D-03274 Biopro 25 (low fat moderately toasted hard soybean powder)

Sample: Biopro 25 (slightly moderately toasted sharp soya flour)

Food group: Protein products

Samples: 2 kg

Net weight: 25 kg

Best used until: 05/06/2019

Series (LOT): 146F18

Conditions of storage: in a dry, ventilated and cool place

Producer: Fabric of proteins and oils "Bioprotein" d.o.o. Ul Bulevar Nikole Tesle 30a Zemun production plant: "Bioprotein" ul Nemanjina b.b. Obrenovac

Country of Origin: Serbia

Other data of relevance to the consumer: the declarations of the manufacturer have been delivered

Sensor analysis

IU-D-03274 Biopro 25 (low fat moderately toasted hard soybean powder)

The subject sample is a slightly moderately toasted sharp soybean flour under the commercial name "Biopro-25" obtained by the technological process from grains of genetically unmodified soybeans, removing oil and non-protein materials. The product is a powdery texture of light brown color, distinctive odor, pleasant little sweet taste.

Method: SBM-03-001

Physico chemical analysis

IU-D-03274 Biopro 25 (low fat moderately toasted hard soybean powder)

Parameter:	Result: (unit)	Method:
Ash (calculated in dry matter)	5,72 %	Sl. list SFRJ 41:1985, met. 3
Urease activity (U)	<0,01 (mg N/g) min	SRPS ISO 5506/01
Cellulose (as dry basis)	3,29 %	Sl. list SFRJ 41:1985, met. 6
proteins (calculated in dry matter)	48,58 %	Sl. list SFRJ 41:1985, met. 4
Moisture	5,46 %	Sl. list SFRJ 41:1985, met. 1
Fat (calculated on the dry matter)	8,36 %	Sl. list SFRJ 41:1985, met. 2

Analysis of harmful matters

IU-D-03274 Biopro 25 (low fat moderately toasted hard soybean powder)

Parameter:	Result: (unit)	Method:
<i>Organophosphorus pesticides</i>		
- 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
- 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

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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
- 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
- Phorate	< 0,01 mg/kg	GC-MSD, SRPS EN 15662:2012
<i>Carbamates</i>		
- 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
<i>Triazines</i>		
- Cyanazine	< 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
<i>Pyrethroids</i>		
- Bifenthrin	< 0,01 mg/kg	GC-MSD, SRPS EN 15662:2012
- Fenvalerate and 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
<i>Organochlorine pesticides</i>		
- 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 (gamma-isomer of hexachlorocyclohexane (HCH))	< 0,01 mg/kg	GC-MSD, SRPS EN 15662:2012
- HCH (alpha,beta and delta isomers of hexachlorocyclohexane)	< 0,01 mg/kg	GC-MSD, SRPS EN 15662:2012
- Aldrin	< 0,01 mg/kg	GC-MSD, SRPS EN 15662:2012
- Dieldrin	< 0,01 mg/kg	GC-MSD, SRPS EN 15662:2012
- DDT (sum of p,p'-DDT, o,p'-DDT, p-p'-DDE and 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
<i>Metals and metalloids</i>		
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
<i>Mycotoxins</i>		
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-D-03274 Biopro 25 (low fat moderately toasted hard soybean powder)

Parameter:	Result: (unit)	Method:
<i>Determination of the presence of GMOs</i>		
CaMV 35S promoter	n.d. (< 0,1%)	SRPS EN ISO 21571:2009 A1:2013; SRPS EN ISO 21569:2008 A1:2014
A.tum NOS terminator	n.d. (< 0,1%)	SRPS EN ISO 21571:2009 A1:2013; SRPS EN ISO 21569:2008 A1:2014
FMV 34S promoter	n.d. (< 0,1%)	SRPS EN ISO 21571:2009 A1:2013; SRPS EN ISO 21569:2008 A1:2014

Content RoundUp Ready soybeans

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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

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
Clostridium perfringens cfu/g n= 5 c= 1 m= 100 M= 1000	Satisfactory I <100 II <100 III <100 IV <100 V <100	SRPS EN ISO 7937:2010
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
Aerobic mesophilic bacteria cfu/g n= 5 c= 2 m= 10000 M= 100000	Satisfactory I 1100 II 1300 III 1000 IV 1200 V 900	SRPS EN ISO 4833-1:2014
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-D-03274 Biopro 25 (low fat moderately toasted hard soybean powder)

Parameter:	Apendix:	Institution:
Radioactivity	Examination report no. 2018/1142-I; submitted 04/07/18	Veterinarski fakultet, Beograd

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Head/Heads of Departments


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