

Expert Opinion

File No: **IU-V-289**
Date: **14/11/19**

Applicant: BANKOM D.O.O. Bulevar Nikole Tesle 30 a 11080 ZEMUN

Documents reff.:

Type of testing: Food safety (quality, pesticides, mycotoxins, radioactivity, GMO and microbiological safety)

Sample and identification number:

IU-V-00688 BIOPRO 10 - Defatted toasted soybean powder;

Data on sample Samples submitted 08/11/19

Date of receipt: 08/11/19

Date of completion of lab. analysis: 14/11/19

On the basis of results of laboratory analysis and expert review it was determined that the above stated sample IU-V-00688 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), Council Regulation (EC) No 733/2008 of July 2008 and No 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).

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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Date of completion of lab. analysis: **14/11/19**

Analysis results:

Identification

IU-V-00688 BIOPRO 10 - Defatted toasted soybean powder

Sample: BIOPRO 10 - Defatted toasted soybean powder

Food group: protein products

Sample quantity: 2 kg

Best used by: 02.02.2021.

Series (LOT): 021119E1A13594

Manufacturer: "Bankom" d.o.o. Bulevar Nikole Tesle 30A, Zemun, Serbia

Country of origin: Serbia

Sensor analysis

IU-V-00688 BIOPRO 10 - Defatted toasted soybean powder

The subject sample is defatted toasted soybean powder under the commercial name "Biopro-10", obtained in technological process from grains of genetically unmodified soybeans by removing oil and non-protein materials. The product is powdery in texture, cream-gray in color, with a characteristic odor, a pleasant slightly sweet taste.

Method:SBM-03-001

Physico chemical analysis

IU-V-00688 BIOPRO 10 - Defatted toasted soybean powder

Parameter:	Result: (unit)	Method:
Ash (calculated in dry matter)	6,49 %	Sl. list SFRJ 41:1985, met. 3
Cellulose (as dry basis)	2,19 %	Sl. list SFRJ 41:1985, met. 6
proteins (calculated in dry matter)	55,04 %	Sl. list SFRJ 41:1985, met. 4
Moisture	7,82 %	Sl. list SFRJ 41:1985, met. 1
Fat (calculated on the dry matter)	0,73 %	Sl. list SFRJ 41:1985, met. 2

Analysis of harmful matters

IU-V-00688 BIOPRO 10 - Defatted toasted 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
-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

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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
<i>Carbamates</i>		
-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
<i>Triazines</i>		
-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
<i>Pyrethroids</i>		
-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
<i>Organochlorine pesticides</i>		
-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
<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-V-00688 BIOPRO 10 - Defatted toasted 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 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
<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

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Parameter:	Result:	Method:
Bacillus cereus (incubation temp.30°C) cfu/g n= 5 c= 5 m= M= <50	Satisfactory I <10 II <10 III <10 IV <10 V <10	SRPS EN ISO 7932:2009
Enterobacteriaceae (incubation temperature 37°C) cfu/g n= 5 c= 2 m= 10 M= 100	Acceptable I <10 II 10 III <10 IV <10 V 10	SRPS EN ISO 21528-2:2017
Escherichia coli cfu/g n= 5 c= 5 m= M= <10	Satisfactory I <10 II <10 III <10 IV <10 V <10	SRPS ISO 16649-2:2008
Sulphite reducing clostridia (incubation temp. 37°C) cfu/g n= 5 c= 5 m= M= <10	Satisfactory I <10 II <10 III <10 IV <10 V <10	SRPS ISO 15213:2011
Total plate count cfu/g n= 5 c= 2 m= 10000 M= 100000	Satisfactory I 3000 II 7000 III 4000 IV 3000 V 5000	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 ISO 15213:2011
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 11290-1:2017
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 6579-1:2017
Coagulase-positive staphylococci (incubation temperature 37°C) cfu/g n= 5 c= 5 m= M= <10	Satisfactory I <10 II <10 III <10 IV <10 V <10	SRPS EN ISO 6888-1:2009
Mould and yeast (aw less than or equal to 0.95) cfu/g	Acceptable	SRPS ISO 21527-2:2011

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n= 5
c= 2
m= 100
M= 1000

I	<100
II	200
III	<100
IV	300
V	<100

Other analysis

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Parameter:

Apendix:

Institution:

Radioactivity

Examination report No.2019/1653;
submitted 14/11/19

Veterinarski fakultet, Beograd

Head/Heads of Departments

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