CENTAR ZA ISPITIVANJE NAMIRNICA d.o.o. Center for food analysis
Belgrade, Zmaja od Noćaja 11, CIN 07045905, FIN 100066891
phone: laboratory 2625-077, accountings 2626-241, director 2185-567
fax 2625-720, e-mail kontakt@cin.co.rs, web www.cin.co.rs
265-1630310003954-87 Raiffeisen Bank AD Beograd, 160-315578-62 Banca Intesa AD Beograd

Expert Opinion

File No: **IU-J-1041/I**
Date: 16/05/19

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

Documents reff.:

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

Sample and identification number:

IU-J-02797 BIOPRO 10 - Defatted toasted soybean powder;

Data on sample Samples submitted 23/04/19

Date of receipt: 23/04/19 Date of completion of lab. analysis: 16/05/19

On the basis of results of laboratory analysis and expert review it was determined that the above stated sample IU-J-02797 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 foodstaffs (OJ L 364/5) and Council Regulation (EC) No: 733/2008 of July 2008 and No 1048/2009 of 23 October 2009 and 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).

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

CENTAR ZA ISPITIVANJE NAMIRNICA CIN DOO BEOGRAD

Head of laboratory
Milan Simic PhD, Hygiene Specialist

Results of laboratory tests are given in Apendix comprising an integral part of expert opinion.

PEM

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Report on laboratory analysis

File No: **IU-J-1041/I**
Date: 16/05/19

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

Documents reff.:

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

Sample and identification number:

IU-J-02797 BIOPRO 10 - Defatted toasted soybean powder;

Data on sample Samples submitted 23/04/19

Date of receipt: 23/04/19 Date of completion of lab. analysis: 16/05/19

Analysis results:

Identification

IU-J-02797 BIOPRO 10 - Defatted toasted soybean powder

Sample: BIOPRO 10 - Fat-free toasted soya flour
Food group: Protein products
Samples: 2 kg
Production date: 04.04.2019.
Series (LOT): /
Packaged: "Bankom" d.o.o. Bulevar Nikole Tesle 30A, Zemun, Serbia
Country of origin: Serbia

Sensor analysis

IU-J-02797 BIOPRO 10 - Defatted toasted soybean powder

The subject sample is fat-free toasted soybean flour under the commercial name " Biopro-10 " obtained by the technological process from grains of genetically unmodified soybeans,removing oil and non-protein materials. The product is a powdery texture of golden-yellow color, a characteristic odor, a pleasant little sweet taste.

Method: SBM-03-001

Physico chemical analysis

IU-J-02797 BIOPRO 10 - Defatted toasted soybean powder

Parameter:	Result:	(unit)	Method:
Proteins	51,2	g/100g	SRPS ISO 1871:2013
Fibre	17,4	g/100g	AOAC 985.29
Ash (calculated in dry matter)	6,43	%	Sl. list SFRJ 41:1985, met. 3
Cellulose (as dry basis)	2,84	%	Sl. list SFRJ 41:1985, met. 6
proteins (calculated in dry matter)	54,59	%	Sl. list SFRJ 41:1985, met. 4
Moisture	6,21	%	Sl. list SFRJ 41:1985, met. 1
Sodium (Na)	115	mg/100g	FAAS, NMKL 180:2005
Salt (Na x 2.5)	0,3	g/100g	FAAS, NMKL 180:2005
Carbon-hydrates	18,1	g/100g	HEM-03-059
Total sugar	15,3	g/100g	SRPS E.L8.007:1980, SRPS E.L8.011:1980
Total fat	1,1	g/100g	Sl. list SFRJ 41;1987, met. 9
Saturated fatty acids	0,5	g/100g	SRPS EN ISO 12966
Fat (calculated on the dry matter)	1,14	%	Sl. list SFRJ 41:1985, met. 2
Energy value (per 100 g of product)	1358 KJ	(322kcal)	HEM-03-059

Analysis of harmful matters

IU-J-02797 BIOPRO 10 - Defatted toasted soybean powder

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

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

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Date: 16/05/19

-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
-Etrimfos	< 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
-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
-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
-Pirimicarb	< 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
-Terbuthylazine	< 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
-Permetrin (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-J-02797 BIOPRO 10 - Defatted toasted soybean powder

Parameter:	Result:	(unit)	Method:
Determination of the presence of GMOs			

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

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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

Microbiological analysis

IU-J-02797 BIOPRO 10 - Defatted toasted 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	
Total plate count cfu/g		Satisfactory	SRPS EN ISO 4833-1:2014
n= 5	I	300	
c= 2	II	200	
m= 10000	III	100	
M= 100000	IV	200	
	V	200	
Clostidium perfrigens 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= 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	
Escherichia coli cfu/g		not found	MBM-03-027
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 21527-1:2011

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n=	5	I	<100
c=	2	II	<100
m=	100	III	<100
M=	1000	IV	<100
		V	<100

Other analysis

IU-J-02797 BIOPRO 10 - Defatted toasted soybean powder

Parameter:	Apendix:	Institution:
Radioactivity	Examination report No.2019/623; submitted 27/04/19	Veterinarski fakultet, Beograd

Note: Replacing the report

This report on laboratory analysis replaces the report File No. IU-J-1041 from 08/05/19. The reason for replacement of the report is: correction of the name of the company that manufactures - packs the product.

Head/Heads of Departments

Vladimir Atić, MSc, Graduate Engeneer of Tehnology

Kristina Lazarević, PhD, Specialist in Chemistry

Marija M. Stojanović, PhD, Doctor of veterinary medicine

Milica Jovetić, PhD, Specialist in Sanitary Chemistry

Head of laboratory

Milan Simić, PhD, Hygiene Specialist

CENTAR ZA ISPITIVANJE NAMIRNICA CIN DOO BEOGRAD III