CENTAR ZA ISPITIVANJE NAMIRNICA d.o.o. Center for food analysis
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265-1630310003954-87 Raiffeisen Bank AD Beograd, 160-315578-62 Banca Intesa AD Beograd

Expert Opinion

File No: **IU-K-83**
Date: 12/12/20

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

Documents reff.:

Data on sample Samples submitted 03/12/20

Sample and identification number:

IU-K-00204 Biopro 15L - Defatted moderately toasted soybean grits;

Type of testing: Food safety

IU-K-00204	Sensor analysis, Physico chemical analysis, protein, fat content, crude fibre, ash, Microbiological safety upon request, Physico chemical residue /contaminant analysis: heavy metals (Hg, As, Pb, Cd), pesticides, mycotoxins, GMO, RH and Ohr

Date of receipt: 03/12/20

Date of start of lab. analysis: 03/12/20
Date of completion of lab. analysis: 12/12/20

On the basis of results of laboratory analysis and expert review it was determined that the above stated sample IU-K-00204 from the point 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), Council Regulation (EC) No: 733/2018 of 15 July 2018 and 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).

NOTE: Determination of mercury, arsenic and ochratoxin content was done at the request of the user

Head of laboratory
Milan Simić PhD, Hygiene Specialist

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ATS
01-016
TESTING LABORATORY
ISO/IEC 17025

Report on laboratory analysis

File No: **IU-K-83**
Date: 12/12/20

Data received from applicant:

Applicant: **BANKOM D.O.O.**

Bear Costs: **BANKOM D.O.O.Bulevar Nikole Tesle 30 a 11080 ZEMUN**

Documents reff.:

Data on sample: Samples submitted 03/12/20

Sample and identification number:

IU-K-00204 Biopro 15L - Defatted moderately toasted soybean grits;

Type of testing: Food safety

IU-K-00204	Sensor analysis, Physico chemical analysis, protein, fat content, crude fibre, ash, Microbiological safety upon request, Physico chemical residue /contaminant analysis: heavy metals (Hg, As, Pb, Cd), pesticides, mycotoxins, GMO, RH and Ohr

Date of receipt: 03/12/20

Date of start of lab. analysis: 03/12/20
Date of completion of lab. analysis: 12/12/20

Statements:

This Report refers only to the tested sample.
"Centar za ispitivanje namirnica d.o.o." has responsibile over the data in this report, except for the data provided by the customer.
"Centar za ispitivanje namirnica d.o.o." has not responsible for the validity of the results, using the information provided by the customer.
When the "Centar za ispitivanje namirnica d.o.o." is not responsible for the sampling phase, the results are applied to the sample as received.
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*) Non accredited activities. **) The data provided by customer.

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ATS 01-016 TESTING LABORATORY ISO/IEC 17025

No: **IU-K-83**
Date: 12/12/20

Analysis results:

Sample: IU-K-00204 Biopro 15L - Defatted moderately toasted soybean grits

Sample data: **

Sample: BIOPRO 15L - Defatted moderately toasted soybean grits
Food group: Protein products from oilseeds (soybeans)
Original packaging:/
Sample quantity: 3 kg
Usable until: 27.04.2022
Series (LOT): 271020E1A14775
Manufacturer: "Bankom" d.o.o.ul Bulevar Nikole Tesle 30A Belgrade - Zemun
Country of origin: Serbia

Sample properly submitted

Sensor analysis

The subject sample is a defatted moderately toasted semolina of soybean under the commercial name " Biopro-15 L", obtained by a technological process from grains of genetically unmodified soybeans, by removing oils and non-protein substances. The product has a powdery texture of pale yellow color, characteristic odor, pleasant slightly sweet taste.

Method: SBM-03-001

Declaration of Conformity:

Based on the test results, the sample is in COMPLIANCE with Article 22 item 3 of the Rulebook on the quality of protein products and mixtures of protein products for the food industry ("Sl. list SFRJ" br. 41/85, "Sl. list SCG" br. 56/03 i 4/04 - dr. pravilnik)

Physico chemical analysis

Parameter:	Result:	(unit)	Ref. value:	Method:
Fat content	0,47 ±0,01	%	max 2	Sl. List SRFJ br.41/85 metoda 2
Crude fibre	2,18 ±0,11	%	max 3.5	Sl. List SRFJ br.41/85 metoda 6
Ash	5,64 ±0,28	%	max 6.5	Sl. List SRFJ br.41/85 metoda 3
Protein	48,74 ±1,95	%	min 47	Sl. List SRFJ br.41/85 metoda 4
Moisture content	6,25 ±0,31	%	max 8	Sl. List SRFJ br.41/85 metoda 1

Declaration of Conformity:

On the basis of the analytical results the sample IS IN COMPLIANCE with the manufacturers specification
When giving the statement of conformity, the decision rule of "shared risk" is used (documented by Article 8 of the "Opštih pravila poslovanja labaratorije Centra za ispitivanje namirnica d.o.o.", edition 2, dated 14 February 2020).
When measurement uncertainty is associated with the result, it represents the extended measurement uncertainty expressed as a combined standard measurement uncertainty multiplied with the coverage factor k = 2, for a confidence level of 95%.

Residue / contaminant analysis

Parameter:	Result:	(unit)	Ref. value/ML:	Method:
Organophosphorus pesticides				
-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
-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

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No: **IU-K-83**
Date: 12/12/20

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
-Terbuthylazine	< 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
-Permetrin (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
Mercury (Hg)	< 0,05	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
Ochratoxin A	< 2,0	µg/kg	IHM-03-ELISA 10

Genetic analysis

Parameter:	Result:	(unit)	Ref. value/ML:	Methda:
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

Declaration of Conformity:

Results of tested parameters ARE IN COMPLIANCE with the Rulebook on the maximum levels of residues of plant protection products in food and feed (""Sl. glasnik RS"" no. 132/20), the Rulebook on maximum levels of certain contaminants in food (""Sl. glasnik RS"" no. 81/19 and 126/20) and the Law on genetically modified organisms (""Sl. glasnik RS"" no. 41/09).

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When measurement uncertainty is associated with the result, it represents the extended measurement uncertainty expressed as a combined standard measurement uncertainty multiplied with the coverage factor k = 2, for a confidence level of 95%.

Microbiological analysis

Parameter:	1	2	3	4	5	MAV	Result:	Method:
Bacillus cereus (incubation temp.30°C) cfu/g	<10	<10	<10	<10	<10	c=0, M=100	Satisfactory	SRPS EN ISO 7932:2009
Escherichia coli /g	0	0	0	0	0	c=0, m=0, M=0	Satisfactory	MBM-03-027
Enterobacteriaceae (incubation temperature 37°C) cfu/g	<10	<10	<10	<10	<10	c=2, m=10, M=100	Satisfactory	SRPS EN ISO 21528-2:2017
Clostidium perfrigens cfu/g	<10	<10	<10	<10	<10	c=1, m=10, M=100	Satisfactory	SRPS EN ISO 7937:2010
Listeria monocytogenes 25g	0	0	0	0	0	c=0, m=0, M=0	Satisfactory	SRPS EN ISO 11290-1:2017
Salmonella spp. 25g	0	0	0	0	0	c=0, m=0, M=0	Satisfactory	SRPS EN ISO 6579-1:2017
Aerobic mesophilic bacteria cfu/g	3900	4000	4200	3300	3900	c=2, m=10000, M=100000	Satisfactory	SRPS EN ISO 4833-1:2014
Mould and yeast (aw less than or equal to 0.95) cfu/g	<10	<10	<10	<10	<10	c=2, m=100, M=1000	Satisfactory	SRPS ISO 21527-2:2011

MDV - internal standard
According to analytical results, the sample is IN COMPLIANCE with internal standard.

Other analysis

IU-K-00204 Biopro 15L - Defatted moderately toasted soybean grits

Parameter:	Apendix:	Institution:
Radioactivity	Examination report No.2020/1660; submitted 08/12/20	Veterinarski fakultet, Beograd

Head/Heads of Departments

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Kristina Lazarević, PhD, Specialist in Chemistry
Chemistry department

Marija M. Stojanović, PhD, Doctor of veterinary medicine
Microbiological department

Milica Jovetić, PhD, Specialist in Sanitary Chemistry
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Head of laboratory
Milan Simić PhD, Hygiene Specialist

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******* End of the Report *******

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