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Expert Opinion

File No: **IU-M-190**
Date: 20/02/20

Applicant: BANKOM D.O.O.Bulevar Nikole Tesle 30 a 11080 ZEMUN Bulevar Nikole Tesle 30 a 11080 ZEMUN
Documents reff.: Delovodni broj: 59 od 05.02.2020.
Data on sample Samples submitted 06/02/20
Sample and identification number:
IU-M-00498 Texpro S - Textured soy protein - slices;

Type of testing:	Food safety
IU-M-00498	Sensor analysis, Physico chemical analysis: quality and moisture, protein, oil, cellulose, ash, Physico chemical residue /contaminant analysis: pesticides, heavy metals Pb, Cd, As, Hg, mycotoxins, GMO, RH, Microbiological safety upon request

Date of receipt: 06/02/20

Date of start of lab. analysis: 06/02/20
Date of completion of lab. analysis: 20/02/20

On the basis of results of laboratory analysis and expert review it was determined that the above stated sample IU-M-00498 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).

Head of laboratory
Milan Simić PhD, Hygiene Specialist

CENTAR ZA ISPITIVANJE NAMIRNICA CIN DOO BEOGRAD III

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ATS 01-016 TESTING LABORATORY ISO/IEC 17025

Report on laboratory analysis

File No: **IU-M-190**
Date: 20/02/20

Data received from applicant:

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

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

Documents reff.: Delovodni broj: 59 od 05.02.2020.

Data on sample: Samples submitted 06/02/20

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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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No: **IU-M-190**
Date: 20/02/20

Analysis results:

Sample: IU-M-00498 Texpro S - Textured soy protein - slices

Sample data: **

Sample: Texpro S - Textured soy protein - pieces
Food group: Protein products
Original packaging: 10 kg natron paper bag
Sample quantity: 5 pcs
Best used by:17.07.2021
Series (LOT):170120E1A13271
Storage and storage conditions: in a dry ventilated and cool place
Manufacturer: Bankom d.o.o. Ul Bulevar Nikole Tesle 30A Zemun production plant Bioprotein d.o.o.ul Nemanjina b.b. Obrenovac R. Serbia
Other information relevant to the consumer: The manufacturer s specification and manufacturer s declaration have been provided

Sample properly submitted

Sensor analysis

The subject sample is a textured soy protein called "Texpro S" obtained from genetically unmodified soya beans, which are ground, peeled, flecked and extracted with the help of hexane as a solvent, with special thermal treatment and extrusion at the desired temperatures. The product is of different size pieces, dark yellow color, with a characteristic odor and slightly sweet taste.

Declaration of Conformity:

Based on the test results the sample is in COMPLIANCE with the manufacturers specification and the Regulation 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)

Physico chemical analysis

Parameter:	Result:	(unit)	Ref. value:	Method:
Moisture	6,75 ±0,34	%	max 8	Sl. List SRFJ br.41/85 metoda 1
Protein (in dry matter)	51,15 ±1,02	%	min 50	Sl. List SRFJ br.41/85 metoda 4
Ash (in dry matter)	6,25 ±0,31	%	max 6.5	Sl. List SRFJ br.41/85 metoda 3
Fat (in dry matter)	0,96 ±0,07	%	max 2	Sl. List SRFJ br.41/85 metoda 2
Cellulose (in dry matter)	2,11 ±0,11	%	max 3.5	Sl. List SRFJ br.41/85 metoda 6

Declaration of Conformity:

Based on the test results, the sample is IN COMPLIANCE with the manufacturer specification

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
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

*) Non accredited activities. **) The data provided by customer.

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-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)	< 0,10	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

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:

"On the basis of the analytical results the sample IS IN COMPLIANCE with the Rulebook on the maximum levels of residues of plant protection products in food and feed and on food and feed for which maximum levels of plant protection products are set (Sl. glasnik RS no. 22/18, 90/18, 76/19 and 81/19) and the Law on genetically modified organisms (Sl.Glasnik RS no. 41/09). NOTE: Detrmination of heavy metals (Hg, As) were performed upon client's request."

Microbiological analysis

Parameter:	1	2	3	4	5	MAV	Result:	Method:

*) Non accredited activities. **) The data provided by customer.

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Bacillus cereus (incubation temp.30°C) cfu/g	<100	<100	<100	<100	<100	c=1, m=100, M=1000	Satisfactory SRPS EN ISO 7932:2009
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
Sulphite reducing clostridia (incubation temp. 37°C) cfu/g	<10	<10	<10	<10	<10	c=0, M=10	Satisfactory SRPS ISO 15213:2011
Total plate count cfu/g	1300	950	900	1000	800	c=2, m=10000, M=100000	Satisfactory SRPS EN ISO 4833-1:2014
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
Escherichia coli cfu/g	<10	<10	<10	<10	<10	c=0, M=10	Satisfactory SRPS ISO 16649-2:2008
Mould and yeast (aw less than or equal to 0.95) cfu/g	<100	<100	<100	<100	<100	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-M-00498 Texpro S - Textured soy protein - slices

Parameter:	Apendix:	Institution:
Radioactivity	Examination report No. 2020/196; submitted 10/02/20	Veterinarski fakultet, Beograd

Head/Heads of Departments

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Milan Simić PhD, Hygiene Specialist

CENTAR ZA ISPITIVANJE NAMIRNICA CIN DOO BEOGRAD III

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