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ATC 01-016
АКРЕДИТОВАНА ЛАБОРАТОРИЈА ЗА ИСПИТИВАЊЕ
SRPS ISO/IEC 17025:2006

Expert Opinion

File No: **IU-K-120/I**
Date: 18/12/19

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

Documents reff.: Broj: 601 od 03.12.2019.

Type of testing: Food safety (quality; heavy metals, pesticides, mycotoxins, GMO, nutritive values, radioactivity; microbiological safety upon request)

Sample and identification number:

IU-K-00320 Texpro M - Textured soy protein - minced;

Data on sample: Samples submitted 04/12/19

Date of receipt: 04/12/19

Date of completion of lab. analysis: 18/12/19

On the basis of results of laboratory analysis and expert review it was determined that the above stated sample IU-K-00320 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), 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 Regulations (EC) No: 733/2008 of 15 July and 1048/2009 of 23 October 2009.

Microbiological analysis comply with the Manufacturing Specification.

NOTE: Determination of heavy metal content was made upon users request.

Head of laboratory
Milan Simić PhD, Hygiene Specialist

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

PEM

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ATC 01-016 АКРЕДИТОВАНА ЛАБОРАТОРИЈА ЗА ИСПИТИВАЊЕ SRPS ISO/IEC 17025:2006

Report on laboratory analysis

File No: **IU-K-120/I**
Date: 18/12/19

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

Documents reff.: Broj: 601 od 03.12.2019.

Type of testing: Food safety (quality; heavy metals, pesticides, mycotoxins, GMO, nutritive values, radioactivity; microbiological safety upon request)

Sample and identification number:

IU-K-00320 Texpro M - Textured soy protein - minced;

Data on sample Samples submitted 04/12/19

Date of receipt: 04/12/19 Date of completion of lab. analysis: 18/12/19

Analysis results:

Identification

IU-K-00320 Texpro M - Textured soy protein - minced

Sample: Texpro M - Textured soy protein flakes
Food group: protein products
Sample quantity: 2750 g
Net weight: 20 kg
Best used by:27.05.2021
Series (LOT): 271119E3A14430
Manufacturer: "Bankom" d.o.o. Nikola Tesla 30A, Zemun Serbia
Country of origin: Serbia

Sensor analysis

IU-K-00320 Texpro M - Textured soy protein - minced

The subject sample is a textured soybean protein obtained from the degreased soyben powder of a genetically unmodified raw materials, commercially known as
Temporm M. The product has a fine flake-crumbly texture, creamy color, characteristic odor and taste.

Method: SBM-03-001

Physico chemical analysis

IU-K-00320 Texpro M - Textured soy protein - minced

Parameter:	Result:	(unit)	Method:
Proteins	50,1	g/100g	SRPS ISO 1871:2013
Fibre	1,82	g/100g	AOAC 985.29
Ash	5,9	%	Sl. list SFRJ 41:1985, met. 3
Moisture	7,1	%	Sl. list SFRJ 41:1985, met. 1
Sodium (Na)	83,6	mg/100g	FAAS, NMKL 180:2005
Salt (Na x 2.5)	0,2	g/100g	FAAS, NMKL 180:2005
Carbohydrate	35,0	g/100g	HEM-03-059
Total sugar	0,54	g/100g	SRPS E.L8.007:1980, SRPS E.L8.011:1980
Total fat	0,1	g/100g	Sl. list SFRJ 41:1987, met. 9
Saturated fatty acids	< 0,1	g/100g	SRPS EN ISO 12966
Energy value (per 100 g of product)	1465 KJ	(345 kcal)	HEM-03-059

Analysis of harmful matters

IU-K-00320 Texpro M - Textured soy protein - minced

Parameter:	Result:	(unit)	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

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Date: 18/12/19

-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
-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)	< 0,05 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

Genetic analysis

IU-K-00320 Texpro M - Textured soy protein - minced

Parameter:	Result: (unit)	Method:
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

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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

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= 100	III <100	
M= 1000	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	
Escherichia coli cfu/g	Satisfactory	SRPS ISO 16649-2:2008
n= 5	I <10	
c= 0	II <10	
m=	III <10	
M= <10	IV <10	
	V <10	
Total plate count cfu/g	Satisfactory	SRPS EN ISO 4833-1:2014
n= 5	I 200	
c= 2	II 200	
m= 10000	III 100	
M= 100000	IV <100	
	V 200	
Clostidium perfrigens cfu/g	Satisfactory	SRPS ISO 15213:2011
n= 5	I <10	
c= 0	II <10	
m=	III <10	
M= <10	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	
Mould and yeast (aw less than or equal to 0.95) cfu/g	Satisfactory	SRPS ISO 21527-2:2011

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

I	<100
II	<100
III	<100
IV	<100
V	<100

Other analysis

IU-K-00320 Texpro M - Textured soy protein - minced

Parameter:	Apendix:	Institution:
Radioactivity	Examination report No.2019/1777-I; submitted 12/12/19	Veterinarski fakultet, Beograd

Note: Replacing the report

This report on laboratory analysis replaces the report File No. IU-K-120 from 10/12/19. The reason for replacement of the report is correction of address of the facility where the sample was taken.

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

Za Milica Jovetić, PhD, Specialist in Sanitary Chemistry

Head of laboratory

Milan Simić PhD, Hygiene Specialist

CENTAR ZA ISPITIVANJE NAMIRNICA CIN DOO BEOGRAD III

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