CENTAR ZA ISPITIVANJE NAMIRNICA d.o.o. Center for food analysis
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Expert Opinion

File No: **IU-C-141**
Date: 10/08/22

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 04/08/22

Sample and identification number:

IU-C-00412 TEXPRO M Textured soy protein - minced;

Type of testing: Food safety

IU-C-00412	Sensor analysis, Physico chemical analysis, Microbiological anaylsis upon request, Residue/contaminants analysis: pesticides, heavy metals (As, Cd, Hg, Pb, Sn) Aflatoxin, Orchatoxin A, GMO, Radioactivity

Date of receipt: 04/08/22

Date of start of lab. analysis: 04/08/22
Date of completion of lab. analysis: 10/08/22

On the basis of results of laboratory analysis and expert review it was determined that the above stated sample IU-C-00412 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), Commission Implementing Regulation (EU) No: 2020/1158 of 5 August 2020, 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, total arsenic and ochratoxin A content were performed upon users's request.

CENTAR ZA ISPITIVANJE NAMIRNICA D.O.O. CIN DOO BEOGRAD IV

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Report on laboratory analysis

File No: **IU-C-141**
Date: 10/08/22

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 04/08/22

Sample and identification number:

IU-C-00412 TEXPRO M Textured soy protein - minced;

Type of testing: Food safety

IU-C-00412	Sensor analysis, Physico chemical analysis, Microbiological anaylsis upon request, Residue/contaminants analysis: pesticides, heavy metals (As, Cd, Hg, Pb, Sn) Aflatoxin, Orchatoxin A, GMO, Radioactivity

Date of receipt: 04/08/22

Date of start of lab. analysis: 04/08/22
Date of completion of lab. analysis: 10/08/22

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.
Measurement uncertainty associated with the result 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%.

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ATS 01-016 TESTING LABORATORY ISO/IEC 17025

No: **IU-C-141**
Date: 10/08/22

Analysis results:

Sample: IU-C-00412 TEXPRO M Textured soy protein - minced

Sample data: **

Sample: TEXPRO M Textured soy protein - minced
Food group: protein products
Original packaging: /
Sample quantity: 2 kg
Best used by: 23.07.2024.
Series (LOT): 230722E2A14431
Manufacturer: "Bankom" d.o.o. Bulevar Nikola Tesla 30A, Zemun, Serbia

Sample properly submitted

Sensor analysis

The sample is textured soy protein under the commercial name " Texpro M ", obtained from non-genetically modified soybeans, which is crushed, peeled, flecked and extracted with the help of hexane as a solvent, with a special heat treatment and extrusion at the desired temperatures. The product comes in pieces of different sizes, dark yellow color, characteristic odor and slightly sweetish taste.
☐
Method: SBM-03-001

Declaration of Conformity:

The results of the tested parameters are in COMPLIANCE with the manufacturers specification

Physico chemical analysis

Parameter:	Result:	(unit)	Ref. value:	Method:
Moisture content	7,63 ±0,38	%	max 8.0	Sl. List SRFJ br.41/85 metoda 1
Fat content	1,77 ±0,03	%	max 2.0	Sl. List SRFJ br.41/85 metoda 2
Crude fibre	1,56	%	max 3.5	SRPS EN ISO 6865:2008
Ash	6,09 ±0,3	%	max 6.5	Sl. List SRFJ br.41/85 metoda 3
Protein	50,16 ±2,01	%	min 50.0	Sl. List SRFJ br.41/85 metoda 4

Declaration of Conformity:

The results of the tested parameters are in COMPLIANCE with the manufacturers specification.
Applied decision rule:
The rule of shared risk (documented in article 8 of the General laboratory business rules of Centar za ispitivanje namirnica d.o.o., issue 2 of 14.02.2020)

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

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

No: **IU-C-141**
Date: 10/08/22

-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)	< 0,10	mg/kg	ICP-MS, SRPS EN 15763:2012
Cadmium (Cd)	< 0,050	mg/kg	ICP-MS, SRPS EN 15763:2012
Mercury (Hg)	< 0,050	mg/kg	ICP-MS, SRPS EN 15763:2012
Arsenic (As)	< 0,050	mg/kg	ICP-MS, SRPS EN 15763:2012
Mycotoxins			
Aflatoxin B1 and total (B1+B2+G1+G2)	< 4	µg/kg	IHM-03-ELISA 01a
Aflatoxin B1	< 2	µg/kg	IHM-03-ELISA 01b
Ochratoxin A	< 2	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, 126/20 , 90/21 and 118/21) and the Law on genetically modified organisms ("Sl. glasnik RS" no. 41/09).
Applied decision rule:
The rule of shared risk (documented in article 8 of the General laboratory business rules of Centar za ispitivanje namirnica d.o.o., issue 2 of 14.02.2020)

NOTE: Determination of mercury, total arsenic and ochratoxin A content were performed upon client's request and the statement of conformity does not refer to it.

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ATS 01-016 TESTING LABORATORY ISO/IEC 17025

No: **IU-C-141**
Date: 10/08/22

Microbiological analysis

Parameter:	1	2	3	4	5	MAV	Result:	Method:
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
Total plate count cfu/g	<100	<100	<100	<100	<100	c=2, m=10000, M=100000	Satisfactory	SRPS EN ISO 4833-1:2014
Clostidium perfrigens cfu/g	<10	<10	<10	<10	<10	c=0, M=10	Satisfactory	SRPS EN ISO 7937:2010
Listeria monocytogenes 25g	not found	not found	not found	not found	not found	c=0, m=0, M=0	Satisfactory	SRPS EN ISO 11290-1:2017
Salmonella spp. 25g	not found	not found	not found	not found	not found	c=0, m=0, M=0	Satisfactory	SRPS EN ISO 6579-1:2017 izuzimajući Anex D SRPS EN ISO 6579-1:2017/A1:2020
Escherichia coli cfu/g	not found	not found	not found	not found	not found	c=0, m=0, M=0	Satisfactory	MBM-03-027
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
Results of tested parameters ARE IN COMPLIANCE with internal standard

Other analysis

IU-C-00412 TEXPRO M Textured soy protein - minced

Parameter:	Apendix:	Institution:
Radioactivity	Examination report no: 2022/1223; submitted 08/08/22	Veterinarski fakultet, Beograd

Head/Heads of Departments

Vladimir Atić, MSc, Graduate Engeneer of Tehnology
Sensor analysis department

Nada Gnjatović, Grad. Chem., Spec. Chem.
Chemistry department

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

MSc. biochem. Milica Vujašković
Instrumental Chemistry department

CENTAR ZA ISPITIVANJE NAMIRNICA D.O.O. CIN DOO BEOGRAD IV

Head of laboratory
spec. dr vet. Aleksandra Anđelković

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