

## Expert Opinion

File no: **IU-A-296**

Date: 15/03/17

Applicant: Proteins and Oils Factory BIOPROTEIN a.d. Bulevar Nikole Tesle 30a 11080 Zemun

Reference to another document:

Type of testing: Food safety (quality, microbiological safety upon request, heavy metals, pesticides, polychlorinated biphenyl, mycotoxins, antibiotics and sulphonamide residues, RH)

Sample and identification number:

**IU-A-00773 Biosoft Vanilla - Complete mixture for the production of soft ice cream and milkshakes, powder;**

Sample information: Sample delivered on 09/03/17

Date of receipt: 09/03/17

Date of completion of laboratory analysis: 15/03/17

On the basis of results of laboratory analysis and expert review it was determined that the above stated sample IU-D-01775 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), amendments and (Consolidated version of Reg. 396/2005), Commission regulation (EC) No 1881/2006 setting maximum levels for contaminants certain in foodstuffs (OJ L 364/5) and Council Regulation (EC) No 1048/2009 of October 2009.

Microbiological analysis was performed upon client's request.



Laboratory Manager  
.....  
Milan Simić, PhD, Hygiene Specialist

## Report on Laboratory Analysis

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### Test results:

#### Identification

IU-A-00773 Biosoft Vanilla - Complete mixture for the production of soft ice cream and milkshakes, powder

Sample: Biosoft Vanilla - Complete mixture for the production of soft ice cream and milkshakes, powder

Food group: Powdered mixture for production of frozen desserts (ice cream and milkshake)

Quantity of sample: 2 kg

Information on allergens: containing milk products (lactose)

Net quantity: 2 kg

Use by: 08.03.2018

Batch (LOT): 16/17

Storage conditions: Store and keep in dry, cool place

Veterinary control number: RS 20441

Manufacturer: Bankom doo, Bulevar Nikole Tesle 30a, 11080 Zemun, Serbia, Manufacturing plant Proteins and oils factory Bioprotein AD Obrenovac, Nemanjina bb

Packing: /manufacturing and loading: Bioprotein AD, Nemanjina bb, 11500 Obrenovac, Serbia

Supplier: /Distributor: Ilago doo, Šumadijski trg 6a, 11030 Belgrade, Serbia

Other data relevant for consumer: The packaging contains a label with printed manufacturer's declaration in Serbian language and foreign language; product specification is submitted

The product is made according to the Manufacturing Specification!

Ingredients: sugar, hydrogenated vegetable fats, WHEY POWDER, MILK POWDER, maltodextrin, dextrose, modified starch, glucose syrup, emulsifiers: E472a, E471, MILK PROTEIN, thickeners: guar gum E412, carboxymethylcellulose E466, locust bean gum E410, xanthan gum E415, tara gum E417, vanilla flavour 9193

Preparations: Gradually mix the mass with water and sugar until the powder is completely dissolved. Leave it to sit 5-10 minutes, and then (briefly but strongly) stir and eventually pour the mass into the ice cream machine or milkshake machine.

Mixture water and sugar ratio: mixture (kg) water (l) sugar (g)

Ice cream	1	3-3.5	150
Milkshake	1	4.5-5	150-250

Nutrition value per 100g of product

Energy value	1791kJ/427kcal
Fat	8.7g
thereof saturated fatty acids	6.5g
Carbohydrates	77.3g
thereof sugar	47.4g
Protein	9.2g
Salt	0.7g

#### Sensory analysis

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The sample consists of original packaging of complete powdered mixture for production soft ice cream and milk shake with vanilla flavour, commercially called "Biosoft vanila". The mixture is packed in bag of aluminum foil whose ends are close to the general thermowelding.

The packaging is not damaged.

Mixture is in the form of fine powder without lumps, uniform pale yellow in colour.

Smell and taste: characteristic.

The product is completely soluble in cold water and stirring provides the product of pale yellow colour, characteristic odour and taste.

Method: SAM-03-001

#### Physico-chemical analysis

IU-A-00773 Biosoft Vanilla - Complete mixture for the production of soft ice cream and milkshakes, powder

Parameter:	Result:(u m.)	Method:
Sugar (as the sum of glucose, fructose and sucrose)	47,35 %	SRPS E.L8.007:1980 i SRPS E.L8.011:1980

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Protein	9,05 %	SRPS ISO 1871:2013
Fat	8,16 %	Sl. List SFRJ 41/87, method 9
Water	1,76 %	Sl. List SFRJ 41/87, method 1

### Safety parameters analysis

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Parameter:	Result:(u. m.)	Method:
- Aldrin	< 0,004 mg/kg	GC-MS, IHM-03-GC-04
- Chlordane (cis- i trans- isomers)	< 0,002 mg/kg	GC-MS, IHM-03-GC-04
- DDT and derivates	< 0,03 mg/kg	GC-MS, IHM-03-GC-04
- Dieldrin	< 0,004 mg/kg	GC-MS, IHM-03-GC-04
- Endosulphan (alpha-, beta- isomers and endosulphan-sulphate)	< 0,03 mg/kg	GC-MS, IHM-03-GC-04
- Endrin	< 0,0008 mg/kg	GC-MS, IHM-03-GC-04
- Endrin ketone	< 0,001 mg/kg	GC-MS, IHM-03-GC-04
- HCH, alpha-	< 0,004 mg/kg	GC-MS, IHM-03-GC-04
- HCH, beta-	< 0,003 mg/kg	GC-MS, IHM-03-GC-04
- Heptachlor	< 0,004 mg/kg	GC-MS, IHM-03-GC-04
- Heptachlorepoxid, cis-	< 0,004 mg/kg	GC-MS, IHM-03-GC-04
- Hexachlorobenzene (HCB)	< 0,01 mg/kg	GC-MS, IHM-03-GC-04
- Lindane	< 0,004 mg/kg	GC-MS, IHM-03-GC-04
- Methoxychlor	< 0,01 mg/kg	GC-MS, IHM-03-GC-04
Polychlorinated biphenyl		
* Polychlorinated biphenyl	< 0,100 mg/kg	IHM-03-GC-01*
Metals and metalloids		
Lead (Pb)	< 0,20 mg/kg	GFAAS, IHM-03-AAS 01
Cadmium (Cd)	< 0,01 mg/kg	GFAAS, IHM-03-AAS 01
Mercury (Hg)	< 0,03 mg/kg	HGAAS, IHM-03-AAS 01
Arsenic (As)	< 0,10 mg/kg	HGAAS, IHM-03-AAS 01
Mycotoxins		
Aflatoxin M1	< 0,025 µg/kg	IHM-03-ELISA 02
Antibiotics		
Chloramphenicol	< 0,5 µg/kg	IHM-03-ELISA 03

### Microbiological analysis

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Parameter:	Result:	Method:
Enterobacteriaceae (incubation temp. 37C) cfu/g	Satisfactory	SRPS ISO 21528-2:2009
n= 5	I <10	
c= 2	II <10	
m= 10	III <10	
M= 100	IV <10	
	V <10	
Detection of antibiotic residues by Delvotest	not found	MBM-03-033 (II)
Detection of sulphonamide residues by Delvotest	not found	MBM-03-033 (II)
Salmonella spp 25g	Satisfactory	SRPS EN ISO 6579:2008
n= 5	I 0	
c= 0	II 0	
m= 0	III 0	
M= 0	IV 0	
	V 0	
Coagulase-positive staphylococci (incubation temperature 37°C) cfu/g	Satisfactory	SRPS EN ISO 6888-1:2009
n= 5	I <1	
c= 1	II <1	
m= 1	III <1	
M= 10	IV <1	
	V <1	

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\*) The method is not part of laboratory accreditation.

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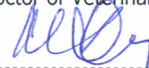
### Other analysis

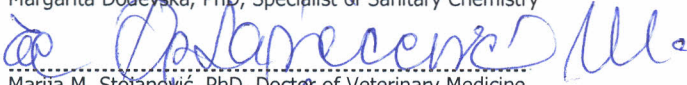
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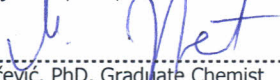
Parameter:	Attachment:	Institution:
Radioactivity	Report on lab analysis no.2017/520; Delivered to CIN on 13/03/17	Veterinary faculty, Belgrade

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