

### Expert opinion

BANKOM d.o.o. BEOGRAD

2977

File no : **IU-D-1034**

delovodni broj:

datum: 20.07.2015 Beograd

Date:

09/07/15

Applicant: BANKOM D.O.O. Bulevar Nikole Tesle 30 a 11070 N.Beograd

Reference to another document:

Type of testing: Food safety (quality, residue analysis of pesticides and heavy metals, PCB, mycotoxins, antibiotic and sulphonamide residues, radioactivity, GMO, microbiological safety upon client's request, nutritive value )

Sample and identification number:

**IU-D-02929 Absolut Cream Plus ice cream base;**

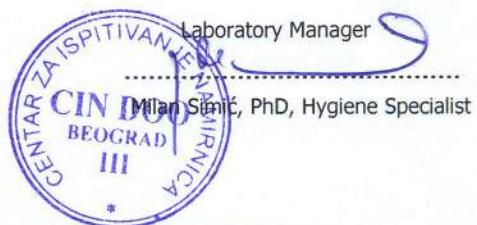
Date of receipt: 26/06/15

Date of completion of laboratory analysis: 09/07/15

On the basis of results of laboratory analysis and expert review, it was determined that the above stated sample IU-D-02929 in terms of analysis parameters, MEETS the conditions prescribed by the Law on Food Safety (Official Gazette of RS 41/09), and related to the Rulebook on the quality of dairy products and starter cultures (Official Gazette of RS no. 33/10; Official Gazette of RS no. 69/10; Official Gazette of RS no. 34/14), the Rulebook on Declaration and Labelling and Advertising of Food (Official Gazette of RS no. 85/2013, 101/2013), the Rulebook on Food Additives (Official Gazette of RS no. 63/2013), the Manufacturing Specification , the Rules on Quantities of Pesticides, Metals, Metalloids and Other Poison Substances, Chemotherapeutics, Anabolic and Other substances which can be found in Foodstuff (Official Journal of FRY no. 5/92, 11/92 and 32/02), the Rulebook on the maximum residue levels of pesticides in food and feed of plant for which is set maximum allowed quantity of residue levels of pesticides (Official Gazette of RS, no. 29/14, 37/14, 39/14, 72/14) the Rulebook on Limits of Radionuclides Content in Drinking Water, Foodstuffs, Feeding Stuffs, Medicines, General Use Products, Construction Materials and Other Goods placed on the Market (Official Gazette of RS 86/11, 97/13), and Article 3 of the Law on Genetically modified organisms (Official Gazette of RS, no.41/2009).

The results of microbiological analyses comply with the Manufacturing Specification.

NOTE: Determining content of aflatoxin M1 was conducted at a client's request. The obtained result of aflatoxin M1 content in sample IU-D-02929 is smaller than the maximum allowed quantity (0.05 µg/kg) for raw milk, thermal processed milk and milk for the production of dairy products (Article 5, Appendix 4, Section 2, item 2.1.14.) prescribed by the Rulebook on the maximum residue levels of pesticides in food and feed of plant for which is set maximum allowed quantity of residue levels of pesticides (Official Gazette of RS, no. 29/14, 37/14, 39/14, 72/14).



## Report on Laboratory Analysis

File no : **IU-D-1034**

Date: **09/07/15**

Applicant: BANKOM D.O.O. Bulevar Nikole Tesle 30 a 11070 N.Beograd

Reference to another document:

Type of testing: Food safety (quality, residue analysis of pesticides and heavy metals, PCB, mycotoxins, antibiotic and sulphonamide residues, radioactivity, GMO, microbiological safety upon client's request, nutritive value )

Sample and identification number:

**IU-D-02929 Absolut Cream Plus ice cream base;**

Date of receipt: 26/06/15

Date of completion of laboratory analysis:  
09/07/15

### Analysis results:

#### Identification

IU-D-02929 Absolut Cream Plus ice cream base

Sample: Absolut Cream Plus - Ice cream base, powder  
 Food group: Powdered mixture  
 Quantity of sample: 2500 g  
 Net quantity: 20kg  
 Date of manufacture: 24/06/2015  
 Best before: 24/06/2016  
 (LOT): 047115/15

Storage conditions: Store and keep in a dry, cool, well-ventilated and dark place

Manufacturer: Bankom doo, Bulevar Nikole Tesla 30a, 11080 Zemun, Republic of Serbia / Manufacturing Plant: Bioprotein AD, Nemanjina bb, Obrenovac, Republic of Serbia

Country of origin: Republic of Serbia

Other data relevant for the consumer: the sample contains a label with printed manufacturer's declaration.

Ingredients: hydrogenated vegetable fat, SKIMMED MILK, dextrose, maltodextrin, modified starch, glucose syrup, emulsifiers: E 472a, E 472b, E 471, MILK PROTEIN, thickeners: E 412, E 466, E 410, E 407, E 401, aroma..

Instruction for use: 70g of Absolut Cream Plus base + 125g Biolac-S (substitute for milk powder, manufacturer: Bankom, Beograd) + 1L water + 200g sugar

Method: hot and cold

Manufactured according to the Manufacturing Specification in accordance with:

the Law on Food Safety (Official Gazette of RS no. 41/09)

the Rulebook on the quality of dairy products and starter cultures (Official Gazette of RS no. 33/10; Official Gazette of RS no. 69/10; Official Gazette of RS no. 34/14)

the Rulebook on Declaration and Labelling and Advertising of Food ("Official Gazette of RS" br.85/2013, 101/2013)

the Rulebook on Food Additives (Official Gazette of RS no. 63/2013)

#### Sensory Analysis

IU-D-02929 Absolut Cream Plus ice cream base

The sample consists of a powder mixture (base) for the production of an ice cream commercially called "Absolut Cream Plus".

The mixture is packed in a plastic bag properly closed and labelled.

The packaging is not damaged.

The ice cream mixture is white and yellowish in the form of fine powder.

The smell and taste are characteristic and vanilla-like..

-Method: SAM-03-001

#### Physico-Chemical Analysis

IU-D-02929 Absolut Cream Plus ice cream base

Parameter:	Result: (u. m.)	Method:
Saturated fatty acids	21.7 g/100g	SRPS EN ISO 12966-3, SRPS EN ISO 5508
Salt	0.8 g/100g	Calculation method ( Na x 2.5 )
Total fats	23.0 g/100g	Off. Journal SFRY 41/87 method 9
Carbohydrates	50.9 g/100g	Calculated by subtraction
Total sugars	4.6 g/100g	SRPS E.L8.007:1980 and SRPS E.L8.011:1980
Sodium (Na)	313 mg/100g	FAAS,NMKL 180 (2005)
Proteins	14.8 g/100g	SRPS ISO 1871:2013
Fibres	3.7 g/100g	AOAC 985.29
Energy value (100 g of products)	1997 kJ (475kcal)	HEM-03-059

Testing results refer only to submitted samples. This report cannot be reproduced without consent of "Centar za ispitivanje namirnica"  
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\*) The method is not part of laboratory accreditation.

File no: **IU-D-1034**

Date: **09/07/15**

### Safety parameters analysis

IU-D-02929 Absolut Cream Plus ice cream base

Parameter:	Result: (u. m.)	Method:
<b>Organochlorine pesticides</b>		
-HCH (isomers of alpha, delta and beta)	< 0,01 mg/kg	GC-MS,EN 15662:2008
-Lindane	< 0,01 mg/kg	GC-MS,EN 15662:2008
-Aldrin and dieldrin	< 0,01 mg/kg	GC-MS,EN 15662:2008
-Heptachlor and heptachlor epoxide	< 0,01 mg/kg	GC-MS,EN 15662:2008
-DDT and derivates	< 0,01 mg/kg	GC-MS,EN 15662:2008
-Endrin	< 0,01 mg/kg	GC-MS,EN 15662:2008
-Endosulfan (isomers of alpha, beta and sulphate)	< 0,01 mg/kg	GC-MS,EN 15662:2008
<b>Polychlorinated biphenyls</b>		
* Polychlorinated biphenyls	< 0,100 mg/kg	GC-MS, SRPS EN 15662:20
<b>Metals and Metalloids</b>		
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	HGAAS, IHM-03-AAS 01
Arsenic (As)	< 0,10 mg/kg	HGAAS, IHM-03-AAS 01
<b>Mycotoxins</b>		
Aflatoxin M1	< 0,025 µg/kg	IHM-03-ELISA 02
<b>Antibiotics</b>		
Chloramphenicol	< 0,5 µg/kg	IHM-03-ELISA 03

### Microbiological analysis

IU-D-02929 Absolut Cream Plus ice cream base

Parameter:	Result:	Method:
Enterobacteriaceae (incubation temp. 37C) cfu/g	Satisfactory	SRPS ISO 21528-2:2009
n= 5	I <10	
c= 5	II <10	
m=	III <10	
M= 10	IV <10	
	V <10	
Salmonella spp 25g	Satisfactory	SRPS EN 6579:2008
n= 5	I 0	
c= 5	II 0	
m=	III 0	
M=	IV 0	
	V 0	
Coagulase-positive staphylococcus (incubation temp. 37C) cfu/g	Satisfactory	SRPS ISO 6888-1:2009
n= 5	I <1	
c= 5	II <1	
m= 10	III <1	
M= 100	IV <1	
	V <1	
Antibiotic residues	not found	MBM-03-014*
Sulphonamide residues	not found	MBM-03-013*

### Other analyses

IU-D-02929 Absolut Cream Plus ice cream base

Parameter:	Attachment:	Institution:
GMO (Quantitative analysis of - genetically modified organism in %)	Report on lab analysis no. R15-7957; arrived to CIN 04/07/15	SP Laboratorijska AD, Bečej
Radioactivity	Report on lab analysis no. 2015/1282; arrived to CIN 04/07/15	Veterinary Faculty, Belgrade

**CENTAR ZA ISPITIVANJE NAMIRNICA d.o.o.**

Beograd, Zmaja od Noćaja 11, matični broj 07045905, PIB 100066891  
tel: laboratorija 2625-077, računovodstvo 2626-241, direktor 2185-567  
fax 2625-720, e-mail kontakt@cin.co.rs, web www.cin.co.rs  
265-1630310003954-87 Raiffeisen Bank AD Beograd, 160-315578-62 Banca Intesa AD Beograd

File no: **IU-D-1034**

Date: 09/07/15

Head/Analyst of Division

*Zorana Tadić*  
Zorana Tadić, Doctor of Veterinary Medicine

*Margarita Dodevska*  
Margarita Dodevska, BSC, Specialist in Sanitary Chemistry

*Marija M. Stojanović*  
Marija M. Stojanović, Doctor of Veterinary Medicine.

*Smiljana Raičević*  
Smiljana Raičević, Doctor of Veterinary Medicine, Graduate Chemist



Laboratory Manager

Milan Simić, PhD, Hygiene Specialist

Faculty of Veterinary medicine  
Universitiy of Belgrade  
Department of Radiology and  
Radiation hygiene  
Bulevar Oslobođenja 18  
Belgrade  
Serbia



FAKULTET VETERINARSKE MEDICINE  
U BEOGRADU  
KATEDRA ZA RADILOGIJU  
I RADIJACIJU HIGIJENU  
BR. 1282  
30. 06. 2015. GOD  
BEOGRAD



**Client**

» Center for food analysis«  
Zmaja od Nocaja br.11  
Belgrade  
Serbia  
Tel. 011-2625-077

Department of Radiology and  
Radiation hygiene  
Tel. 011-2685-291  
Fax 011-2685-291  
E-mail: radijacija@vet.bg.ac.rs

**SUBJECT: EXAMINATION REPORT NO. 2015/1282**

**SAMPLE ACCEPTANCE DATE:** 29.06.2015.

**DATE OF ISSUING REPORT:** 30.06.2015.

According to your requirement No. IU - D - 1034 dated 26/06/2015, the examination regarding the presence of radionuclides is done within the delivered sample and the following report has been made:

**R E S U L T**

**Sample:**

1.IU – D – 02929 Ice-cream base Absolut Cream Plus

**Country of Origin:** /

**Evidential number:** 15/1282

Radionuclide content in the sample (Bq / kg)	
<sup>137</sup> Cs	<sup>40</sup> K
< 0,3	307 ± 14

The results of measured radioactivity in the delivered sample **show no radionuclide presence beyond the regulations** (Official Gazette RS 86/2011 issued 18.11.2011. and Official Gazette RS 97/13 issued 6.11.2013.).

The examination has been done by the method of low-level gamma spectrometry on HPGe detector based on IAEA Technical Report 295.

**Deliver to:**

- 1.Client
- 2.Archive

**Examiner:**

Stručni saradnik  
Andrić Velibor, fizički tehnik

Audm. Velibor



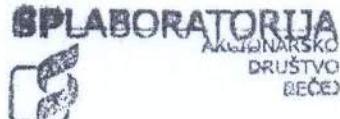
**2a Head of Department:**

Dr sci. vet. med Branislav Mitrović  
Branislava Mitrović

1. It is forbidden to distributed analysis results without approval from Faculty of veterinary medicine, Department for Radiology and radiation Hygiene
2. Results are valid only for examined sample.

FVM RH ZA/3

REPUBLIKA SRBIJA  
SP LABORATORIJA AD BEČEJ  
Industrijska 3, 21220 Bečej



Datum 14.07.2015

Broj 34183



LIST OF ANALYZED SAMPLES  
Number R15-7957

Directive for analysis: IU-D-1034 of 26.06.2015

Sample number	R15063105
Sample name	IU-D-02929 - BASE FOR ICE CREAM ABSOLUT CREAM PLUS - base for the production of ice cream

MS Aleksandra Bauer  
General Manager

M.P.

MS Milica Rankov Šicar  
of Samples Booking and Analysis  
Supervision Dpt.

Sent to

1. Applicant
2. Archive

Statement:

1. Results of the analysis are referred only to the examined sample.
2. This report must not be multiplied, except on the whole, with approval of the SP LABORATORY.

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SP LABORATORIJA AD BEČEJ, 21220 BEČEJ, Industrijska 3, Republika Srbija  
tel: +381 21 6811-603; fax: +381 21 6912-545; [www.splaboratorija.rs](http://www.splaboratorija.rs); e-mail: [splaboratorija@victoriagroup.rs](mailto:splaboratorija@victoriagroup.rs)

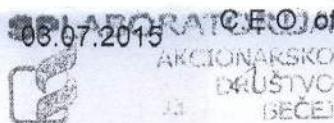
CERTIFICATE OF ANALYSIS R15-7957  
Sample number: R15063105

Applicant	CENTAR ZA ISPITIVANJE NAMIRNICA DOO CIN BEOGRAD, ZMAJA OD NOĆAJA 11
Directive for analysis	IU-D-1034 of 26.06.2015
Sample name	IU-D-02929 - BASE FOR ICE CREAM ABSOLUT CREAM PLUS - base for the production of ice cream
Asked analysis	GMO analiza by client's request
Sampling data	Sample was delivered 29.06.2015
Sample receiving date	29.06.2015
Start testing date	29.06.2015
End testing date	03.07.2015
Report number	R15-7957

MS Aleksandra Bauer  
General Manager

M.P.

MS Milica Rankov Šicar  
CEO of Samples Booking and Analysis  
Supervision Dpt.



Sent to

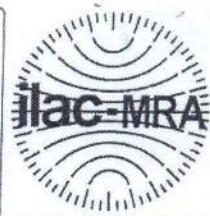
1. Applicant
2. Archive

Statement:

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SP LABORATORIJA AD BEČEJ, 21220 BEČEJ, Industrijska 3, Republika Srbija  
tel: +381 21 6811-603; fax: +381 21 6912-545; [www.splaboratorija.rs](http://www.splaboratorija.rs); e-mail: [splaboratorija@victoriagroup.rs](mailto:splaboratorija@victoriagroup.rs)



R15063105: IU-D-02929 - BASE FOR ICE CREAM ABSOLUT CREAM PLUS - base for the production of ice cream

Identification:

Producer: FABRIKA PROTEINA I ULJA "BIOPROTEIN" A.D. - production section BIOPROTEIN A.D., Nemanjina bb, Obrenovac, Srbija

Date of production: 24.06.2015.

Expiry date: 1 year

Lot no.: 047/15

Results of genetic testing

Analysis	Result	Reference data	Methods
Testing of genetic modification [%]	< 0,05	max 0,9	JRC GMO Protocol <sup>(159)</sup> Real Time PCR

Analysis JRC GMO Protocol are within the flexible scope of accreditation.

MET 789 - Testing of genetic modification was performed by Real Time PCR approach:

-General-specific primers for the CaMV35S promoter and NOS terminator (element-specific), with a detection limit of 0,05%

Source of reference values- of the Law on Genetically Modified Organisms (Official Gazette of RS 41/2009) Art. 3

<sup>(159)</sup>JRC Compendium of reference methods for GMO analysis

MS Gordana Nović  
C.E.O. of Genetical and Physical-Chemical  
Analysis Dpt.

MS Predrag Vulićević  
Specialist in Sanitary Chemistry

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