

## Expert Opinion

File No: **IU-M-926**  
Date: **05/03/18**

Applicant: Fabrika proteina i ulja BIOPROTEIN d.o.o. Bulevar Nikole Tesle 30a 11080 Zemun  
Documents reff.:  
Type of testing: Food safety (quality, microbiological safety upon request, heavy metals, pesticides and radioactivity)  
Sample and identification number:  
**IU-M-02940 Bioherb (product based on vegetable fat);**  
Data on sample Samples submitted 28/02/18  
Date of receipt: 28/02/18  
Date of completion of lab. analysis: 05/03/18

On the basis of results of laboratory analysis and expert review it was determined that the above stated sample IU-M-02940 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), and amendments (Consolidated version of Reg 396/2005), Commission regulation (EC) No 1881/2006 setting maximum levels for certain contaminants in foodstuffs (OJ L 364/5) and Council Regulation (EC) No 1048/2009 of 23 October 2009.

The results of microbiological tested parameters are corresponding to the manufacturer specification.



Head of laboratory  
Milan Simić PhD, Hygiene Specialist

## Report on laboratory analysis

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### Analysis results:

#### Identification

IU-M-02940 Bioherb (product based on vegetable fat)

Sample: Bioherb (product based on vegetable fat)  
 Food group: preparation (semi product) for further purposes  
 Original packaging: bag 20 kg  
 Quantity of sample: 2 kg  
 Declared additives: emulsifier E - 471  
 Net quantity: 20 kg  
 Best before: 21.11.2018  
 (LOT): 012/18  
 Storage conditions: Store in dry and cold place  
 Veterinary control number: RS 20441  
 Producer: " Bankom " d.o.o. Ul Bulevar Nikole Tesle 30a Zemun-Beograd, production plant: " Bioprotein AD " ul Nemanjina bb Obrenovac R.Srbija  
 Country of Origin: R.Serbia

#### Sensor analysis

IU-M-02940 Bioherb (product based on vegetable fat)

The subject sample is a semi-product based on vegetable fats and other additional raw materials (glucose syrup, dextrose, maltodextrin, corn starch, modified starch with the addition of emulsifier E-471) specially designed for various branches of food industry, commercial (protected) name Bioherb on the basis of vegetable fats ". The product is fine powdery texture of white cream, slightly milky smell and taste, without the presence of foreign adhesives and signs of deterioration.

Method: SBM - 03 - 001

#### Physico chemical analysis

Parameter:	Result: (unit)	Method:
Protein	0,08 %	SRPS ISO 1871:2013
Carbohydrate	75,16 %	HEM-03-059
Fat	18,09 %	Sl. List SFRJ 41/87, met. 9
Moisture	4,72 %	Sl. List SFRJ 41/87, met. 1
Ash	2,03 %	Sl. List SFRJ 41/87, met. 5

#### Analysis of harmful matters

IU-M-02940 Bioherb (product based on vegetable fat)

Parameter:	Result: (unit)	Method:
-Chlordane (sum of cis- and trans-chlordane)	< 0,01 mg/kg	GC-MS, SRPS EN 15662:20
-Hexachlorocyclohexane (HCH), alpha-isomer	< 0,01 mg/kg	GC-MS, SRPS EN 15662:20
-Hexachlorocyclohexane (HCH), beta-isomer	< 0,01 mg/kg	GC-MS, SRPS EN 15662:20
-Hexachlorocyclohexane (HCH), sum of isomers, except gama-	< 0,01 mg/kg	GC-MS, SRPS EN 15662:20
<i>Organochlorine pesticides</i>		
Aldrin and dieldrin	< 0,01 mg/kg	GC-MS, SRPS EN 15662:20
-DDT (sum of p,p'-DDT, o,p'-DDT, p,p'-DDE, p,p'-DDD)	< 0,03 mg/kg	GC-MS, SRPS EN 15662:20
-Endosulfan (sum of alpha-,beta- isomers and endosulfan sulph)	< 0,03 mg/kg	GC-MS, SRPS EN 15662:20
-Endrin	< 0,01 mg/kg	GC-MS, SRPS EN 15662:20

Results of research refer exclusively to the submitted samples. The report was forbidden to copy without the consent of the Center for food analysis  
 It's not permit to point out the name of Laboratory "Centar za ispitivanje namirnica" in the declaration or for other marketing purposes.

\*) Testing sample/Method is out of the scope of accreditation.

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-Heptachlor (sum of heptachlor and heptachlor epoxide)	< 0,01 mg/kg	GC-MS, SRPS EN 15662:20
-Hexachlorobenzene (HCB)	< 0,01 mg/kg	GC-MS, SRPS EN 15662:20
Lindane (gama-isomer of HCH)	< 0,01 mg/kg	GC-MS, SRPS EN 15662:20
-Methoxychlor	< 0,01 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	CVAAS, IHM-03-AAS 01
Arsenic (As)	< 0,10 mg/kg	HGAAS, IHM-03-AAS 01

### Microbiological analysis

IU-M-02940 Bioherb (product based on vegetable fat)

Parameter:	Result:	Method:
Enterobacteriaceae (after incubation temperature 37°C) cfu/g	Satisfactory	
n= 5	I <10	
c= 2	II <10	
m= 0	III <10	
M= 10	IV <10	
	V <10	
Salmonella spp. 25g	Satisfactory	
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	
n= 5	I <10	
c= 2	II <10	
m= 10	III <10	
M= 100	IV <10	
	V <10	

### Other analysis

IU-M-02940 Bioherb (product based on vegetable fat)

Parameter:	Apendix:	Institution:
Radioactivity	Examination report No. 2018/377; submitted 03/03/18	Veterinarski fakultet, Beograd

Head/Heads of Departments

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