

Expert OpinionEv. No: **IU-O-1**Date: **13/05/14**

Customer: Fabrika proteina i ulja BIOPROTEIN a.d. Bulevar Nikole Tesle 30a 11080 Zemun

Other documents:

Request analysis: Food safety (quality, pesticides and heavy metals, mycotoxins, radioactivity, GMO, microbiological safety)

Sample and identification number:

IU-O-00001 Biopro 55 (Vegetable protein concentrate);

Date of receipt: 05/05/14

Date of complete: 13/05/14

On the basis of results of laboratory analysis and expert review, it was determined that the above stated sample IU-O-00001, in terms of analysis parameters, MEETS the conditions prescribed by the Law on Food Safety (Sl. Glasnik RS 41/09) and related to the Rulebook on the quality of feed (Sl. glasnik RS br. 4/10, 113/12, 27/14), Manufacturer's specification and Rulebook on the limits of radionuclides in water to drink, food, livestock food, medicines, articles of common use, construction materials and other goods that are placed on the market (Sl. glasnik RS 86/11, 97/13).



Head of laboratory

Dr sc. med. Milan Simić, spec. hig.

Test report

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Test results:

Identification

IU-O-00001 Biopro 55 (Vegetable protein concentrate)

Sample: Biopro 55 (vegetable protein concentrate)

Quantity: 1.5 kg, was sampled from the original packaging unit, and delivered it to the analysis in the bag of plastic.

The present sample contains declarations with the name of product, manufacturer, list of ingredients, net quantity, expiration date and other product data.

Net weight: 25 kg

Production date: 30.04.2014.

Expiration date: 9 months

Series of products: L 043/14

Manufacturer: "Bioprotein" Bulevar Nikole Tesle 30a, Beograd

The production facility, "Bioprotein" Nemanjina bb, Obrenovac, Srbija

Manufactured in: Serbia

Sensor analysis

IU-O-00001 Biopro 55 (Vegetable protein concentrate)

The present sample is a plant protein concentrate, consisting of heat treated flour and the fat free part of dehulled soybeans with addition of soy protein isolate and rice protein. The product is a fine powder texture, creamy yellow color, characteristic odor, pleasant slightly sweetish taste.

Physical and chemical examinations

IU-O-00001 Biopro 55 (Vegetable protein concentrate)

Parameter:	Result: (unit)	Method:
Fat	5.43 %	SRPS ISO 6492:2001
Ash	5.03 %	SRPS ISO 5984:2002
Cellulose	2.18 %	SRPS ISO 6865:2001
Moisture	4.63 %	SRPS ISO 6496:2001
Protein	55.99 %	SRPS ISO 5983-1:2010

Analysis of harmful matters

IU-O-00001 Biopro 55 (Vegetable protein concentrate)

Parameter:	Result: (unit)	Method:
<i>Mycotoxins</i>		
Aflatoxin B1 and total (B1+B2+G1+G2)	< 2,0 µg/kg	IHM-03-ELISA 01
<i>Metals and metalloids</i>		
Arsenic (As)	< 1,00 mg/kg	HGAAS, IHM-03-AAS 01
Cadmium (Cd)	< 0,50 mg/kg	GFAAS, IHM-03-AAS 01
Lead (Pb)	< 1,00 mg/kg	GFAAS, IHM-03-AAS 01
Mercury (Hg)	< 0,10 mg/kg	HGAAS, IHM-03-AAS 01
<i>Organochlorine pesticides</i>		
Hexachlorbenzene (HCB)	< 0,01 mg/kg	GC-MS,EN 15662:2008
HCH (alpha, delta and beta isomers)	< 0,01 mg/kg	GC-ECD, IHM-03-GC 01
Lindane	< 0,01 mg/kg	GC-ECD, IHM-03-GC 01
Aldrin and dieldrin	< 0,01 mg/kg	GC-ECD, IHM-03-GC 01
Heptachlor and heptachlor epoxide	< 0,01 mg/kg	GC-ECD, IHM-03-GC 01
DDT and its derivates	< 0,01 mg/kg	GC-ECD, IHM-03-GC 01
Endrin	< 0,01 mg/kg	GC-ECD, IHM-03-GC 01
Endosulfan (alpha, beta and sulphate isomers)	< 0,01 mg/kg	GC-ECD, IHM-03-GC 01

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Microbiological examinations

IU-O-00001 Biopro 55 (Vegetable protein concentrate)


Parameter:	Result:	Method:
u 50g	not found	ENISO11290,ISO16649,ISO2152
Clotidium perfringens u 50g	not found	EN ISO 15213, EN ISO 7937
The number of aerobic colonies < 12000000 cfu/g	9000	EN ISO 4833
Salmonella species u 50g	not found	EN ISO 6579
Coagulase-positive staphylococcus u 50g	not found	EN ISO 6888-1
Mould and yeast < 200000 cfu/g	950	ISO 21527-1,2

Other examinations


IU-O-00001 Biopro 55 (Vegetable protein concentrate)

Parameter:	Appendix:	Institution:
GMO (QUANTITATIVE EVALUATION - ANALYSIS OF GMO PERCENTAGE)	Examination report No. R14-5480; submitted 12/05/14	SP Laboratorija AD, Bečej
Radioactivity	Examination report No .2014/547; submitted 12/05/14	Veterinarski fakultet, Beograd

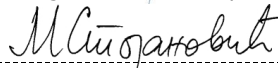
Head/Heads of Departments



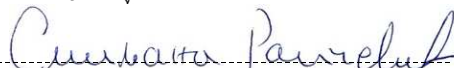
 Mr sc. teh. Vladimir Atić, dipl. ing. tehn.




 Dipl. hem Margarita Dodevska, spec. san. hem.



 Mr Marija M. Stojanović, Dr vet. med.



 Dr sc. vet. Smiljana Raičević, dipl. hem, spec. bioh.

 Rukovodilac laboratorije


 MD Ph.D. Milan Simić, spec.