

Expert Opinion

File No: **IU-V-660**

Date: **27/11/18**

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

Documents ref.:

Type of testing: Food safety (quality, microbiological safety, pesticides, heavy metals, mycotoxins and GMO)

Sample and identification number:

IU-V-01579 Ekolak plus 20% lactose;

Data on sample Samples submitted 16/11/18

Date of receipt: 16/11/18

Date of completion of lab. analysis: 27/11/18

On the basis of results of laboratory analysis and expert review it was determined that the above stated sample IU-V-01579 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), 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).

Head of laboratory

Milan Simić PhD, Hygiene Specialist



Report on laboratory analysis

File No: **IU-V-660**
Date: **27/11/18**

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

Documents ref.:

Type of testing: Food safety (quality, microbiological safety, pesticides, heavy metals, mycotoxins and GMO)

Sample and identification number:

IU-V-01579 Ekolak plus 20% lactose;

Data on sample Samples submitted 16/11/18

Date of receipt: 16/11/18

Date of completion of lab. analysis: 27/11/18

Analysis results:

Identification

IU-V-01579 Ekolak plus 20% lactose

Sample: Ekolak plus 20% lactose - Milk replacement for animal

Food group: Feed

Ingredients: Low fat toasted soy flower, whey powder, soybean protein isolate, dextrose, lactose, and amino acids

The amount of the sample: 2 kg

Expiration 7.11.2019

series (LOT): 013F18

storage conditions: Store in a dry, cool, well-ventilated and the dark space

Veterinary control number: RS 30-023

manufacturer: Factory of the protein and oil-Bioprotein adBulevar Nikola Tesla 30a, 11080 Zemun - production plant: BIOPROTEIN adObrenovac, Nemanjina bb

Country: Republic of Serbia

Other data of interest to consumers: With the sample was submitted to a label with the manufacturer Declaration of product:

Moisture max. 8%

Crude protein min. 36%

Lactose min.20%

Crude fiber max. 3%

ash max. 8%

Crude fat min. 5%

Dosage:

is added to the complete feed mixture of: 20% of the piglets, calves to 25%

Sensor analysis

IU-V-01579 Ekolak plus 20% lactose

Sample of a mixture of animal feed under the trade name "Ekolak plus 20% lactose" - milk replacement for animal nutrition.

Product is a mixture of low-fat soft moderately toasted soybean flour, whey powder, soya protein isolate, dextrose, lactose, and amino acids.

The mixture is creamy yellow color, powdery consistency, a characteristic odor.

It is used as a substitute for powdered milk in the diet, adds the complete mixture of pigs and calves.

Method: SAM-03-001

Physico chemical analysis

IU-V-01579 Ekolak plus 20% lactose

Parameter:	Result: (unit)	Method:
Proteins	36,09 %	SRPS ISO 5983-1:2010
Cellulose	2,30 %	SRPS ISO 6865:2008
Moisture	2,97 %	SRPS ISO 6496:2001
Lactose	20,23 %	HEM-03-064
Ash	5,98 %	SRPS ISO 5984:2013
Fat	6,61 %	SRPS ISO 6492:2000

Analysis of harmful matters

IU-V-01579 Ekolak plus 20% lactose

Parameter:	Result: (unit)	Method:
<i>Organochlorine pesticides</i>		

No: **IU-V-660**

Date: 27/11/18

-Aldrin and dieldrin (Aldrin and dieldrin combined expressed as	< 0,01 mg/kg	GC-MS,SRPS EN 15662:2012
-Chlordane (sum of cis- and trans-chlordane)	< 0,01 mg/kg	GC-MS,SRPS EN 15662:2012
-DDT (sum of p,p'-DDT, o,p'-DDT, p,p'-DDE, p,p'-DDD)	< 0,03 mg/kg	GC-MS,SRPS EN 15662:2012
-Endosulfan (sum of alpha-,beta- isomers and endosulfan sulp	< 0,03 mg/kg	GC-MS,SRPS EN 15662:2012
-Endrin	< 0,01 mg/kg	GC-MS,SRPS EN 15662:2012
-Heptachlor (sum of Heptachlor and Heptachlor epoxide)	< 0,01 mg/kg	GC-MS,SRPS EN 15662:2012
-Hexachlorobenzene (HCB)	< 0,01 mg/kg	GC-MS,SRPS EN 15662:2012
-Hexachlorocyclohexane (HCH), alpha-isomer	< 0,01 mg/kg	GC-MS,SRPS EN 15662:2012
-Hexachlorocyclohexane (HCH), beta-isomer	< 0,01 mg/kg	GC-MS,SRPS EN 15662:2012
-Lindane (gamma-isomer of hexachlorocyclohexane (HCH))	< 0,01 mg/kg	GC-MS,SRPS EN 15662:2012
-Methoxychlor	< 0,01 mg/kg	GC-MS,SRPS EN 15662:2012
Metals and metalloids		
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
Mycotoxins		
Aflatoxin B1	< 0,002 mg/kg	IHM-03-ELISA 01b

Genetic analysis

IU-V-01579 Ekolak plus 20% lactose

Parameter:	Result: (unit)	Method:
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

Microbiological analysis

IU-V-01579 Ekolak plus 20% lactose

Parameter:	Result:	Method:
Clostridium botulinum, Clostridium perfringens u 50g	<10	SRPS ISO 15213:2011, SRPS EN ISO 7937:2010
Other pathogens u 50g	not found	SRPS EN ISO 11290-1:2017
Total plate count <6000000 cfu/g	3000	SRPS EN ISO 4833-1:2014
Salmonella spp. u 50g	not found	SRPS EN ISO 6579-1:2017
Coagulase-positive staphylococci (incubation temperature 37°C) u 50g	<10	SPRS EN ISO 6888-1:2009
Mould and yeast (aw less than or equal to 0.95) <10000 cfu/g	<100	SRPS ISO 21527-1:2011
Head/Heads of Departments		

Zorana Tadić, Doctor of Veterinary Medicine

Margarita Dodevska, PhD, Specialist in Sanitary Chemistry

Marija M. Stojanović, PhD, Doctor of veterinary medicine

Smiljana Raičević, PhD, Graduate Chemist

Head of laboratory
Milan Simić PhD, Hygiene Specialist

