

## Expert Opinion

File No: **IU-A-1141**

Date: **05/04/18**

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

Documents ref.:

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

Sample and identification number:

**IU-A-03337 Ekolak T;**

Data on sample Samples submitted 28/03/18

Date of receipt: 28/03/18

Date of completion of lab. analysis: 05/04/18

On the basis of results of laboratory analysis and expert review it was determined that the above stated sample IU-A-03337 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 Regulation (EC) No 1829/2003 on genetically modified food and feed (OJ L 268/1); 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

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### Analysis results:

#### Identification

IU-A-03337 Ekolak T

Sample: Ekolak T - Replacement for milk for calving

Food group: Animal feed

Quantity of sample: 1kg

Neto quantity: / packing: 10 kg

Use by: 26.09.2018

LOT: 006/18

Storage conditions: in a dry, cool, ventilated and dark place

Manufacturer: Factory of proteins and oils -Bioprotein, Bulevar Nikole Tesle 30a, 11080 Zemun - Production manipulation: Bioprotein Obrenovac, Nemanjina bb, 11500 Obrenovac

Other data relevant for consumer: The sample is accompanied by a label with a manufacturers declaration

Raw material composition: powdered milk, powdered whey, full-term heat-treated flour from peeled soybean, isolate of plant-derived proteins, yeast, desertrosis, fats and oils, emulsifying dicalcium phosphate, calcium carbonate, sodium chloride, microelements, vitamins, antioxidants (BHT), amino acids, enzymes, microencapsulated lactic acid bacteria, organic acids, toxin and aroma absorbent.

Moisture % max.	6	Vitamin B6, mg	4
Protein % min.	23	Vitamin B12 mg	0,03
Fat % min	15	Niacin mg	30
Fiber % max	1	Ca Pantotenat mg	15
Ashes % max	8	Biotin mg	0,15
Ca %	0,9 - 1,1	Choline chloride mg	500
P %	0,7 - 0,9	Vitamin K3 mg	1,50
Na %	0,3 - 0,40	Vitamin C mg	100
Lizin % min.	2,26	Fe mg	90
Metionin % min.	0,65	Cu mg	10
In 1 kg of product added:		Mn mg	40
Vitamin A I J	40.000	Zn mg	50
Vitamin D I J	5.000	J mg	0,50
Vitamin E mg	50	Co mg	0,10
Vitamin B1 mg	4	Se mg	0,30
Vitamin B2 mg	3	Antioxidant mg	100

Usage: milk powder replacement is dissolved in hot water (125 g powder per 1 liter of water), gives calves to the supplied power scheme. It is produced according to the production specification and in accordance with the Rulebook on Quality and Other Requirements for Feedingstuffs (Official Gazette of the Republic of Serbia No. 04/2010). Quality Control Institute of Veterinary Medicine Belgrade.

#### Sensor analysis

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The sample is a substitute for milk for calves feeding under the commercial name Ekolak T.

The mixture is cream-colored, powdery consistency, characteristic odor.

Metoda: SAM-03-001

#### Physico chemical analysis

IU-A-03337 Ekolak T

Parameter:	Result: (unit)	Method:
Proteins	24,79 %	SRPS ISO 5983-1:2010
Phosphorus (P)	0,61 %	SRPS ISO 6491:2002
Sodium (Na)	0,43 %	FAAS, NMKL 180 (2005)

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.

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



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Dietary fibre	0,39 %	SRPS ISO 6865:2008
Moisture	3,41 %	SRPS ISO 6496:2001
Ash	5,96 %	SRPS ISO 5984:2013
Fat	16,28 %	SRPS ISO 6492:2001

### Analysis of harmful matters

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Parameter:	Result: (unit)	Method:
- Aldrin & Dieldrin	< 0,01 mg/kg	GC-MSD, IHM-03-GC 04
- Chlordane, alfa-	< 0,02 mg/kg	GC-MSD, IHM-03-GC 04
- DDT and derivatives	< 0,03 mg/kg	GC-MSD, IHM-03-GC 04
- Endrin	< 0,01 mg/kg	GC-MSD, IHM-03-GC 04
- Endrin ketone	< 0,01 mg/kg	GC-MSD, IHM-03-GC 04
- HCH, alfa-	< 0,01 mg/kg	GC-MSD, IHM-03-GC 04
- HCH, beta-	< 0,01 mg/kg	GC-MSD, IHM-03-GC 04
- Heptachlor	< 0,01 mg/kg	GC-MSD, IHM-03-GC 04
- Heptachlor-epoxide (isomer cis)	< 0,01 mg/kg	GC-MSD, IHM-03-GC 04
- Hexachlorobenzen (HCB)	< 0,01 mg/kg	GC-MSD, IHM-03-GC 04
- Lindan	< 0,01 mg/kg	GC-MSD, IHM-03-GC 04
- Methoxychlor	< 0,01 mg/kg	GC-MSD, IHM-03-GC 04
<i>Organochlorine pesticides</i>		
- Dieldrin	< 0,01 mg/kg	GC-MSD, IHM-03-GC 04
- Endosulfan (alpha-, beta- isomers and endosulfan-sulphate)	< 0,03 mg/kg	GC-MSD, IHM-03-GC 04
<i>Metals and metalloids</i>		
Lead (Pb)	< 0,20 mg/kg	GFAAS, IHM-03-AAS 01
Cadmium (Cd)	< 0,05 mg/kg	GFAAS, IHM-03-AAS 01
Mercury (Hg)	< 0,10 mg/kg	CVAAS, IHM-03-AAS 01
Arsenic (As)	< 0,10 mg/kg	HGAAS, IHM-03-AAS 01

### Genetic analysis

IU-A-03337 Ekolak T

Parameter:	Result: (unit)	Method:
<i>Determination of the presence of GMOs</i>		
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
<i>Content RoundUp Ready soybeans</i>		
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

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Parameter:	Result:	Method:
Clostridium botulinum, Clostridium perfringens u 50g	<10	SRPS ISO 15213:2011, SRPS EN
Other pathogens u 50g	not found	SRPS EN ISO 11290-1:2010, MB
Total plate count < 12000000 cfu/g	77000	SRPS EN ISO 4833-1:2014
Salmonella spp. u 50g	not found	SRPS EN ISO 6579:2008
Coagulase-positive staphylococci (incubation temperature 37°C) u 50g	<10	SRPS EN ISO 6888-1:2009
Mould and yeast (aw less than or equal to 0.95) < 200000 cfu/g	<100	SRPS ISO 21527-2:2011

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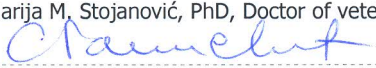
Date: 05/04/18


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