REPUBLIKA SRBIJA
SP LABORATORIJA AD BEČEJ
Industrijska 3, 21220 Bečej

SP LABORATORIJA AKCIONARSKO DRUŠTVO BEČEJ

Datum 27. 12. 2014

Broj izv. 18824

IDENTIFICATION OF ANALYZED SAMPLE
Number R14-16157 / R14122332

Directive for analysis: 2282 of 17.12.2014

Sample number	R14122332
Sample name	*EKOFISH MEAL - Vegetable replacer for fish meal*

STATEMENT OF CONFORMITY MICRO-BIOLOGICAL EXAMINATION:
Based on the results of the parameters analyzed sample is in compliance with Regulation on the quality of the feed, Official Gazette of RS 4/2010, 113/2012 and 27/2014, art.101 and 102.

STATEMENT OF CONFORMITY PHYSICAL-CHEMICAL TESTING HARMFUL SUBSTANCES:
Based on the results of the parameters analyzed sample is in compliance with Regulation on the quality of the feed (Official Gazette of RS 4/2010, 113/2012, 27/2014), art. 99 table 52.

MS Aleksandra Bauer
Director

SP LABORATORIJA AKCIONARSKO DRUŠTVO BEČEJ 27.12.2014 13

MS Predrag Vulićević
Manager

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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OBR 130 Izdanje 3 od 18.09.2014.

JBLIKA SRBIJA
ABORATORIJA AD BEČEJ
ustrijska 3, 21220 Bečej

ATC 01-018 АКРЕДИТОВАНА ЛАБОРАТОРИЈА ЗА ИСПИТИВАЊЕ SRPS ISO/IEC 17025:2006

ilac-MRA

CERTIFICATE OF ANALYSIS R14-16157
Sample number: R14122332

Applicant	FABRIKA PROTEINA I ULJA BIOPROTEIN AD BEOGRAD-ZEMUN, BULEVAR NIKOLE TESLE 30 A
Directive for analysis	2282 of 17.12.2014
Sample name	EKOFISH MEAL - Vegetable replacer for fish meal
Asked analysis	Analysis by client's request
Sampling data	Sample was delivered 18.12.2014
Sample receiving date	18.12.2014
Start testing date	18.12.2014
End testing date	27.12.2014
Report number	R14-16157

MS Aleksandra Bauer
Director

M.P.
27.12.2014
SP LABORATORIJA AKCIONARSKO DRUŠTVO 13 BEČEJ

MS Milica Rankov Šicar
Manager

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OBR 103 Izdanje 6 od 18.09.2014.

R14122332: EKOFISH MEAL - Vegetable replacer for fish meal
Identification:

Producer: FABRIKA PROTEINA I ULJA "BIOPROTEIN" A.D. - manufacturing section BIOPROTEIN A.D., Nemanjina bb, Obr
Net weight of delivered sample: 2,200 kg
Lot: 114/14
Veterinary control number of the object: RS-30-023

-General look:

Sample was delivered properly packed, in bulk. With sample was delivered declaration with accompanying data.

Based on delivered documentation sample is EKOFISH MEAL - vegetable replacer for fish meal. Sample is creamy yellow, powdery consistency. Odor is characteristic for the raw material from which it is produced. Fabric: low fat moderately toasted soy flour, rice protein, calcium carbonate, amino acids (Lysine, Methionine, Threonine), vitamin E, enzymes and antioxidant (BHT). The declaration of a listed chemical composition and method of use, storage conditions. Products by product specification.

MS Tatjana Popov

Micro-biological examination

Analysis	Result	Reference data	Allowed deviation	Methods	
Total plate count [/g]	510	max 12000000	15% relative value	SRPS EN ISO 4833-1	Detection and counting
Yeasts and molds [/g]	600	max 200000	15% relative value	SRPS ISO 21527-2	Detection and counting
Clostridium perfringens [/50g]	Negative	Negative		SRPS EN ISO 7937	Detection and counting
Salmonella spp. [/50g]	Negative	Negative		SRPS EN ISO 6579	Detection

Note

Source of reference values: Regulation on the quality of the feed (Official Gazette of RS 4/2010, 113/2012 and 27/2014, art. 101 and 102.

Results of physical-chemical testing harmful substances

Analysis	Result	Reference data	Methods	
Pb, calculated at 12% moisture) [mg/kg]	0,029	max 10	VM/MET 868	ICP/MS
Cd, calculated at 12% moisture [mg/kg]	0,08	max 1	VM/MET 868	ICP/MS
Hg, calculated at 12% moisture [mg/kg]	< 0,001	max 0,1	VM/MET 868	ICP/MS
As, calculated at 12% moisture [mg/kg]	0,022	max 2	VM/MET 868	ICP/MS
Heksahlorbenzen, calculated at 12% moisture [mg/kg]	< 0,01	max 0,1	BS EN 15662	GC/MS

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Analysis	Result	Reference data	Methods	
Alpha-HCH , calculated at 12% moisture [mg/kg]	< 0,005	max 0,02	SRPS EN 15742	GC/ECD
Beta-HCH, calculated at 12% moisture [mg/kg]	< 0,005	max 0,01	SRPS EN 15742	GC/ECD
Delta-HCH, calculated at 12% moisture [mg/kg]	< 0,005	-	SRPS EN 15742	GC/ECD
Lindane, calculated at 12% moisture [mg/kg]	< 0,005	max 0,2	SRPS EN 15742	GC/ECD
Heptachlor , calculated at 12% moisture [mg/kg]	< 0,005	max 0,01	SRPS EN 15742	GC/ECD
Heptachlor epoxide-cis, calculated at 12% moisture [mg/kg]	< 0,005		SRPS EN 15742	GC/ECD
Aldrin, calculated at 12% moisture [mg/kg]	< 0,005	max 0,01	SRPS EN 15742	GC/ECD
Dieldrin, calculated at 12% moisture [mg/kg]	< 0,005		SRPS EN 15742	GC/ECD
Chlordane trans, calculated at 12% moisture [mg/kg]	< 0,005	max 0,02	SRPS EN 15742	GC/ECD
Chlordane cis, calculated at 12% moisture [mg/kg]	< 0,005		SRPS EN 15742	GC/ECD
P,p-DDE, calculated at 12% moisture [mg/kg]	< 0,005	max 0,05	SRPS EN 15742	GC/ECD
P,p-DDD, calculated at 12% moisture [mg/kg]	< 0,005		SRPS EN 15742	GC/ECD
P,p-DDT, calculated at 12% moisture [mg/kg]	< 0,005		SRPS EN 15742	GC/ECD
Endrin, calculated at 12% moisture [mg/kg]	< 0,005	max 0,01	SRPS EN 15742	GC/ECD
Endrin ketone, calculated at 12% moisture [mg/kg]	< 0,005		SRPS EN 15742	GC/ECD
Endosulfan I (alpha), calculated at 12% moisture [mg/kg]	< 0,005	max 0,1	SRPS EN 15742	GC/ECD
Endosulfan II (beta), calculated at 12% moisture [mg/kg]	< 0,005		SRPS EN 15742	GC/ECD
Endosulfan sulfate, calculated at 12% moisture [mg/kg]	< 0,005		SRPS EN 15742	GC/ECD
Methoxychlor, calculated at 12% moisture [mg/kg]	< 0,005	-	SRPS EN 15742	GC/ECD
Aflatoxin (B1), calculated at 12% moisture)) [mg/kg]	< 0,0003	max 0,03	VM/MET 913	HPLC

Note

Source of reference values: Regulation on the quality of the feed (Official Gazette of RS 4/2010, 113/2012, 27/2014), article 99 table 52.

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Results of physical-chemical testing

Analysis	Result	Reference data	Allowed deviation	Methods	
Proteins content (N*6,25) [%]	60,81	min 60 [4)]	2 % absolute value	SRPS EN ISO 16634-1	Method of total combustion
Moisture content [%]	6,43	max 8 [4)]	10% relative value	SRPS ISO 6496	Drying
Cellulose content [%]	1,75	max 4 [4)]	0,9 % absolute value	SRPS EN ISO 6865	Weende
Ash content [%]	4,53	max 7 [4)]	10% relative value	SRPS ISO 5984	Annealing
Fat content [%]	8,44	min 5 [4)]	12% relative value	SRPS ISO 6492	Po Weibull-Stoldtu
Trypsin inhibitor [TIU/mg]	24,78	-		AOCS Ba 12-75	Spectrophotometry
Beta- conglycinine [mg/kg]	95170	-		TNO StudyPlan/AM-03E [1)]	Elisa test

[1)]Outside the scope of accreditation; [4)]Value from declaration

Note

Source of reference values: Regulation on the quality of the feed, (Sl. List RS 4/2010,113/2012,27/2014), art.105 table 57 and product declaration.

Results of genetic testing

Analysis	Result	Reference data	Methods	
Quantitative determination of the presence of GMO [%]	< 0,1	max 0,9	VM/MET 789	RT-PCR

Note

MET 789 - Determining the genetic modification was performed Real Time-PCR method, using:
-General-specific primers for the CaMV35S promoter and NOS terminator,
-Specific primers for the construct of Roundup Ready (for soybean)
with sensitivity of 0,1%

Source of reference value: Law on Genetically Modified Organisms (Official Gazette of RS 41/2009), art.3.

MS Ivana Filipović
Manager

MS Predrag Vulićević
Manager

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