



APPENDIX TO THE CERTIFICATE OF ANALYSIS
R21-13941 for sample R21071541

Directive for analysis: 282 from 07.07.2021

Sample number	R21071541
Sample name	BIOPRO 60 - Low fat soybean cake
Based on test results and according to the Law on Food Safety art. 28, art.29 (Official Gazette of RS no. 41/2009, 17/2019) sample is FIT FOR CONSUMPTION.	
Based on these data examined sample is in compliance with art.17 Regulation on the quality of the feed (Official Gazette of RS 4/2010, 113/2012, 27/2014, 25/2015, 39/2016, 54/2017) and product specification.	
STATEMENT OF CONFORMITY MICROBIOLOGICAL TESTING: Based on the results of the parameters analyzed sample is in compliance with art.101 and 102 Regulation on the quality of the feed (Official Gazette of RS 4/2010, 113/2012, 27/2014, 25/2015, 39/2016, 54/2017).	
STATEMENT OF CONFORMITY PHYSICAL-CHEMICAL CONTAMINANTS/RESIDUES TESTING: Based on the results of the analyzed parameters sample is in compliance with art. 99 table 52 Regulation on the quality of the feed (Official Gazette of RS 4/2010, 113/2012, 27/2014, 25/2015, 39/2016, 54/2017) and Directive 2002/32/EC of the European parliament and of the council of May 2002 on undesirable substances in animal feed and 2006/576/EC of August 2006.	
STATEMENT OF CONFORMITY PHYSICAL-CHEMICAL TESTING: Based on the results of the parameters analyzed sample is in compliance with product specification and art.105 table 57 Regulation on the quality of the feed (Official Gazette of RS 4/2010, 113/2012, 27/2014, 25/2015, 39/2016, 54/2017).	

APPENDIX:

Report on examination of the radioactivity of 2021/1075 for sample R2107 1541

Analysis was done on Faculty Veterinary medicine University of Belgrade, Department of Radiology and Radiation hygiene, Bulevar Oslobođenja 18.

28.07.2021


Predrag Vukčević MS
Specialist in Sanitary Chemistry

By certificate of analysis number R21-13941 sample was analyzed R21071541.

Statement:

1. This report must not be multiplied, except on the whole, with approval of SP LABORATORIJA.
2. The test results refer only to the test sample.
3. The test results are applied only to the sample as received, except when the SP Laboratory is responsible for the sampling phase.
4. SP LABORATORIJA is responsible for all data presented in the Test Report except for those obtained from the test users
5. SP LABORATORIJA gives up the responsibility for the validity of the results for whose statements the data obtained from the users have been used.
6. Test location in SP Laboratory: Industrijska 3, 21220 Bečej



CERTIFICATE OF ANALYSIS R21-13941 / R21071541
Sample number: R21071541

Applicant	FABRIKA PROTEINA I ULJA BIOPROTEIN DOO, BEOGRAD (ZEMUN), Beograd - Zemun, Bulevar Nikole Tesle 30 A
Directive for analysis	282 from 07.07.2021.
Sample name	BIOPRO 60 - Low fat soybean cake
Asked analysis	Product safety + Analysis by client's request
Sampling data	Sample was delivered 08.07.2021.
Sample receiving date	08.07.2021.
Start testing date	08.07.2021.
End testing date	28.07.2021.
Report number	R21-13941
Date of issue of the report	28.07.2021.

APPENDIX:

Report on examination of the radioactivity of 2021/1075 for sample R2107 1541
Analysis was done on Faculty Veterinary medicine University of Belgrade, Department of Radiology and Radiation hygiene, Bulevar Oslobođenja 18.

By certificate of analysis number R21-13941 sample was analyzed R21071541.

R21071541: BIOPRO 60 - Low fat soybean cake

Identification:

Data obtained from user:
Expiry date: 07.03.2022.
Lot: 070621F2A3444

Net weight of delivered sample: 2 x 320 g

-General look:

Sample was delivered in bulk in PE bag. With the sample was delivered a declaration with data of sample.

Based on delivered documentation, sample is Low fat soybean cake. Sample is characteristic consistency, light brownish color, with no foreign odors and foreign impurities visible to the naked eye.

For the Sensory Testing Department: Bojana Preradov
Expert associate in the Sensory Research Department



Microbiological testing

Analysis	Result	Reference data	Allowed deviation	Methods	
Total number of bacteria (30°C) [CFU/g]	1500	max 1200000	±15% relative value	SRPS EN ISO 4833-1:2014	Counting
Yeasts and molds [CFU/g]	< 10 ²)	max 200000	±15% relative value	SRPS ISO 21527-2:2011	Counting
Clostridium perfringens [/50g]	Not detected	Not detected		SRPS EN ISO 7937:2010	Counting
Salmonella spp [/50g]	Not detected	Not detected		SRPS EN ISO 6579-1:2017/A1:2020	Detection

²Limit of quantification (LOQ)

Note

Source of reference values: art.101 and 102 Regulation on the quality of the feed (Official Gazette of RS 4/2010, 113/2012, 27/2014, 25/2015, 39/2016, 54/2017).

Results of physical-chemical contaminants/residues testing

Analysis	Result	Expanded measurement uncertainty ⁹⁾	Methods	
Residue of pesticides (shown in the table 1) [mg/kg]	< 0,005 ²⁾	± 50%	SRPS EN 15662	GC/MS/MS
Residue of pesticides (shown in the table 2) [mg/kg]	< 0,01 ²⁾	± 50%	SRPS EN 15662	GC/MS/MS
Residue of pesticides (shown in the table 3) [mg/kg]	< 0,01 ²⁾	± 50%	SRPS EN 15662	LC/MS/MS

²Limit of quantification (LOQ). ⁹⁾Extended measurement uncertainty is expressed as a combined standard measurement uncertainty increased by the coverage factor k = 2 for a confidence level of approximately 95%. Determination of pesticide residues by SRPS EN 15662 is within the flexible scope of accreditation.

Note

Source of reference values: art. 99 table 52 Regulation on the quality of the feed (Official Gazette of RS 4/2010, 113/2012, 27/2014, 25/2015, 39/2016, 54/2017) and Directive 2002/32/EC of the European parliament and of the council of May 2002 on undesirable substances in animal feed and 2006/576/EC of August 2006.

Analysis	Result	Expanded measurement uncertainty ⁹⁾	Reference data	Methods	
Lead (Pb), calculated at 12% moisture [mg/kg]	< 0,1 ²⁾	± 25%	max 10	VM/MET 865	ICP/MS
Cadmium (Cd), calculated at 12% moisture [mg/kg]	< 0,1 ²⁾	± 25%		VM/MET 865	ICP/MS
Mercury (Hg), calculated at 12% moisture [mg/kg]	< 0,02 ²⁾	± 25%	max 0,1	VM/MET 865	ICP/MS
Arsenic (As), calculated at 12% moisture [mg/kg]	< 0,1 ²⁾	± 25%	max 2	VM/MET 865	ICP/MS
Aflatoxin (B1), calculated at 12% moisture [µg/kg]	< 0,3 ²⁾	± 25%	-	VM/MET 913	HPLC/FLD

²Limit of quantification (LOQ). ⁹⁾Extended measurement uncertainty is expressed as a combined standard measurement uncertainty increased by the coverage factor k = 2 for a confidence level of approximately 95%. Determination of metals and metalloids by VM/MET 865 is within the flexible scope of accreditation. Determination of mycotoxins by VM/MET 913 is within the flexible scope of accreditation.

Note

Source of reference values: art.99 table 52 Regulation on the quality of the feed (Official Gazette of RS 4/2010, 113/2012, 27/2014, 25/2015, 39/2016, 54/2017).

Results of physical-chemical testing

Analysis	Result	Expanded measurement uncertainty ⁹⁾	Reference data	Allowed deviation	Methods	
Proteins (N*6,25) [%]	38,33	± 1,533	min 38 ³⁾	±2 % absolute value	SRPS EN ISO 18634-1:2010	Method of total combustion
Moisture [%]	9,73	± 0,487	max 12 ³⁾	±1 % absolute value	SRPS ISO 6496:2001	Drying
Cellulose [%]	7,03	± 1,336	max 9 ³⁾	±2,1 % absolute value	SRPS EN ISO 6865:2008	Weende
Ash content [%]	5,95	± 0,268	max 8 ³⁾	±10% relative value	SRPS ISO 5984:2013	Annealing
Fat [%]	7,11	± 0,711	max 12 ³⁾	±12% relative value	SRPS EN ISO 734:2016	Soxhlet
Urease activity [mgN/g/min]	0,02	± 0,012	max 0,5 ³⁾		SRPS ISO 5506:2019	Volumetry
Index of protein solubility [%]	8	± 0,6	-		AOCS Ba 10b-09:2017	Macro Kjeldahl

³⁾Value of product specification, ⁹⁾Extended measurement uncertainty is expressed as a combined standard measurement uncertainty increased by the coverage factor k = 2 for a confidence level of approximately 95%

Note

Source of reference values: Product specification and art.105 table 57 Regulation on the quality of the feed (Official Gazette of RS 4/2010, 113/2012, 27/2014, 25/2015, 39/2016, 54/2017).

Testing of genetic modification

Analysis	Result	LOD [%]	Methods	
Detection of genetic modification-GTS 40-3-2 (RoundUp Ready)	Not detected	0,05	JRC GMO Protocol ¹⁵⁹⁾	Real Time PCR

LOD - limit of detection

Tests JRC GMO Protocol are within the flexible scope of accreditation.

Note

According to art.3 Law on Genetically Modified Organisms (Official Gazette of RS 41/2009), genetically modified organism is not considered an agricultural product of plant origin contain up to 0.9% threshold of genetically modified organisms and impurities of genetically modified organisms.

Seed and reproductive material are not considered genetically modified organisms if contain up to 0.1% threshold of genetically modified organisms and impurities of genetically modified organisms.

Beta-BHC	Endosulfan I (alpha)	Endosulfan II (beta)	Endosulfan sulfate

2,4-DDT	4,4' - DDD	4,4' - DDE	4,4' - DDT	Aldrin	Alpha-BHC
Azinphos-methyl	Benalaxyl	Bifenthrin	Biphenyl	Boscalid (Nicofen)	Buprofezin
Carboxin	Chlordan-cis	Chlordan-trans	Chlorfenapyr	Chlorpropham	Chlorpyrifos-ethyl
Chlorpyrifos-methyl	Cinidon-ethyl	Cyfluthrin I	Cyfluthrin II	Cyfluthrin III	Cyfluthrin IV
Cypermethrin I	Cypermethrin II	Cypermethrin III	Cypermethrin IV	Cyprodinil	Delta-BHC
Deltamethrin	Diazinon	Dichlorvos	Dicloran	Dieldrin	Difenoconazol

Table 2 - List of analyzed pesticide residues (LFO 001) in the delivered sample with the determined concentrations <LOQ (limit of quantification)

Diphenylamine	Disulfoton	Endrin	Endrin aldehyde	Endrin ketone	Epoxiconazole
Esfenvalerate	Ethion	Ethoprophos	Ettoxazole	Fenbuconazole	Fenitrothion
Fenpropathrin	Fenthion	Fenvalerate	Fluazifop-p-butyl	Flusilazole	Heptachlor
Heptachlor epoxide-cis (exo)	Hexachlorobenzene (HCB)	Hexaconazole	Imazail	Iprodione	Kresoxim-methyl
Lambda-Cyhalothrin	Lindan (Gama-BHC)	Malathion	Mepanipyrim	Metalaxyl	Metconazole
Methacrifos	Methoxychlor	Metrafenone	Mevinphos (Phosdrin)	Myclobutanil	Nitrofen
Orthophenylphenol (2-Phenylphenol)	Penconazole	Permethrin-cis	Permethrin-trans	Pririmiphos-methyl	Prochloraz
Propargite	Propiconazole I	Propiconazole II	Pyridaben	Pyrimethanil	Pyriproxyfen
Quintozene	Spirodiclofen	Spiroxamine I	Spiroxamine II	Tebuconazole	Tebufenpyrad
Tefluthrin	Tetraconazole	Trifloxystrobin	Trifluralin	Vinclozolin	

Table 3 - List of analyzed pesticide residues (LFO 001) in the delivered sample with the determined concentrations <LOQ (limit of quantification)

1-Naphthylacetamide	Acetamiprid	Aldicarb	Aldicarb-sulfone	Aldicarb-sulfoxide	Azoxystrobin
Carbendazim	Carbetamide	Chlorantraniliprole	Chloroxuron	Cyazofamid	Desmedipham
Diethofencarb	Dimethenamid	Dimethoate	Ethirimol	Fluopyram	Imidacloprid
Iprovalicarb	Metazachlor	Methiocarb	Methiocarb-sulfone	Methiocarb-sulfoxide	Metosulam
Omethoate	Oxycarboxin	Phoxim	Propoxur	Tebufenozide	Tepaloxymid
Thiabendazole	Thiacloprid	Thifensulfuron-methyl			

¹⁵⁸¹JRC Compendium of reference methods for GMO analysis

Results approved:

PhD Ivana Filipović, Specialist in Food Microbiology	<i>I. Filipovic</i>
Biljana Marošanić MS Spec. in Tox. Chemistry. C.E.O. of Instrumental Analysis Dpt.	<i>B. Marosobut</i>
dipl. Ing. Gordana Nović C.E.O. of Genetical and Physical-Chemical Analysis Dpt.	<i>G. Novic</i>

Report approved:

Predrag Vulićević MS, Specialist in Sanitary Chemistry	<i>P. Vulicevic</i>
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Statement:

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6. Test location in SP Laboratory: Industrijska 3, 21220 Bečej



Client
SP LABORATORIJA AD Bečej
Industrijska zona bb
21220 Bečej
Tel/fax: 021-6912-545

**Department of Radiology and
Radiation hygiene**
Tel. 011-2685-291
Fax 011-2685-291
E-mail: radijacija@vet.bg.ac.rs

SUBJECT: EXAMINATION REPORT NO. 2021/1075

SAMPLE ACCEPTANCE DATE: 12.07.2021.

SAMPLE ANALYSES: 12.07.2021.

DATE OF ISSUING REPORT: 12.07.2021.

According to your requirement No.24230 dated 09.07.2021., the examination regarding the presence of radionuclides is done within the delivered sample and the following report has been made:

1. Sample:

R2107 1541 BIOPRO 60- Low -fat ground soybean cake

2. Work Order No.: R21-13941

3. Quantity/mass: /

4. Country of Origin: Serbia

5. Importer: /

6. Vehicle number: /

7. Sampler: /

8. Link to sampling proceedings: /

9. Investigation method: The sample preparation included homogenization and weighing into a suitable container (IAEA TRS 295). The examination has been done by the method of low-level gamma spectrometry on HPGe detector based on IAEA TRS 295. For detector calibration referents standards were used.

10. Results:

Radionuclide content in the sample (Bq / kg)		ACCORDING REGULATIONS
¹³⁷ Cs	< 1,9	YES
⁴⁰ K	555 ± 50	

11. Conclusion: The results of measured radioactivity in the delivered sample **show no radionuclide presence beyond the regulations** (Official Gazette RS 36/2018 of 10.05.2018.).

The examination has been done by the method of low-level gamma spectrometry on HPGe detector based on IAEA Technical Report 295.

Deliver to:

1. Client
2. Archive

Examiner: *met Branislava Mitrović*

Head of Department: *profesor*

Dr sci. vet. med. *Nikola Krstić*

Branislava Mitrović

Branislava Mitrović

It is forbidden to distributed analysis results without approval from Faculty of veterinary medicine, Department for Radiology and Radiation Hygiene

2. Results are valid only for examined sample.



Declaration of Conformity

Nr. NL19/819943476

GMP+ Int. Nr. GMP049738

SGS Nr. 30373



SGS Product & Process Certification states that participant:

SP LABORATORIJA AKCIONARSKO DRUŠTVO

Industrijska 3
21220 Bečej
Serbia

was audited in accordance with the applicable requirements of the GMP+ B11 *Protocol for GMP+ registration for laboratories* and GMP+ C7 *Assessment and certification/inspection criteria for GMP+ certification/inspection – additional/specific scopes of GMP+ International B.V. in Rijswijk, The Netherlands.*



SGS Product & Process Certification states, based on desk study, that the performance criteria as mentioned in the GMP+ BA11 *Performance criteria for GMP+ Registered Laboratory* are met for the analyses mentioned in the appendix and on the website of GMP+ International (www.gmpplus.org).

Statement start date: **09 June 2021**

Statement end date: **09 June 2022**

Authorized by:

M. Kaizer

Certification Manager SGS Product & Process Certification



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**Appendix to Declaration of Conformity
NL19/819943476**

No	Operation	Material / Matrix		
		Feed material	Feed additives and premixtures	Compound- and complementary feed
1. Aflatoxin B1				
1.01	Aflatoxin B1	x		x
2. Dioxins and dioxin-like PCBs				
2.01	Sum of dioxins and dioxin-like PCBs			
2.02	Dioxins			
2.03	Dioxin-like PCBs			
2.04	Non-dioxin-like PCBs			
3. Heavy Metals and Fluorine				
3.01	Arsenic	x	x	x
3.02	Lead	x	x	x
3.03	Cadmium	x	x	x
3.04	Mercury	x		x
3.05	Fluorine			



GMP+ Int. No: GMP049738
SGS No: C1000031

