



APPENDIX TO THE CERTIFICATE OF ANALYSIS
R21-19540 for sample R21092880

Directive for analysis: 128 from 15.09.2021

Sample number R21092880

Sample name BIOPRO 10L - Defatted toasted soybean flour

Based on test results and according the Law on Food Safety art.25. art. 26 (Official Gazette of RS no. 41/2009, 17/2019) sample is

FIT FOR HUMAN CONSUMPTION.

Based on the above tests, it was determined that the tested Sample is in compliance with art.26 Regulation of the quality of albuminous products and a mixture of albuminous products for the food industry (Official Gazette of SFRJ 41/85).

STATEMENT OF CONFORMITY MICROBIOLOGICAL TESTING:

Results of the analyzed parameters are SATISFACTORY in relation to product specifications.

STATEMENT OF CONFORMITY PHYSICAL-CHEMICAL CONTAMINANTS/RESIDUES TESTING:

Based on the results of the analyzed parameters sample is in compliance with art.3 appendix 2, art 5 appendix 4, art.6 and art.7 Regulation on the maximum permitted quantities of residues of plant protection products in food and feed (Official Gazette of RS 132/20), in terms of determination of organochlorine pesticides.

Based on the results of the analyzed parameters sample is in compliance with art.2 appendix 1, art.3 Regulation on maximum concentrations of certain contaminants in food (Official Gazette of RS 81/2019, 126/2020, 90/2021).

STATEMENT OF CONFORMITY PHYSICAL-CHEMICAL TESTING:

Based on the results of the parameters analyzed sample is in compliance with art.26 Regulation of the quality albuminous products and a mixture of albuminous products for the food industry (Official Gazette of SFRJ 41/85) (Note: conformity cannot be confirmed, with a confidence level of 95% for extended measurement uncertainty, for ash content calculated on dry matter)

APPENDIX.

Report on examination of the radioactivity of 2021/1504 for sample R2109 2880

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

29.09.2021

Predrag Vulićević MS
Specialist in Sanitary Chemistry

By certificate of analysis number R21-19540 sample was analyzed R21092880.

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 SP LABORATORY disclaims responsibility for declarations of conformity issued on the basis of testing of aggregate samples at the request of the user
- 7 Test location in SP Laboratory: Industrijska 3, 21220 Bečej

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CERTIFICATE OF ANALYSIS R21-19540 / R21092880
Sample number: R21092880

Applicant	PRIVREDNO DRUŠTVO ZA EKONOMSKE, FINANSIJSKE, INFORMATIČKE I TRGOVINSKO-PROIZVODNE USLUGE BANKOM DRUŠTVO SA OGRANIČENOM ODGOVORNOŠĆU BEOGRAD, BULEVAR NIKOLE TESLE 30A, Beograd-Zemun, Bulevar Nikole Tesle 30/A
Directive for analysis	128 from 15.09.2021.
Sample name	BIOPRO 10L - Defatted toasted soybean flour
Asked analysis	Product safety + Analysis by client's request
Sampling data	Sample was delivered 17.09.2021.
Sample receiving date	17.09.2021.
Start testing date	17.09.2021.
End testing date	29.09.2021.
Report number	R21-19540
Date of issue of the report	29.09.2021.

APPENDIX:

Report on examination of the radioactivity of 2021/1504 for sample R2109 2880

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

By certificate of analysis number R21-19540 sample was analyzed R21092880.

R21092880: BIOPRO 10L - Defatted toasted soybean flour

Identification:

Data obtained from user:

Expiry date: 12.09.2023.

Lot: 120921E1A14840

Net weight of delivered sample: 6x280 g

-General look:

Sample was delivered properly packed, in bulk. With the sample was delivered a documentation with data of sample.

Based on delivered documentation, sample is BIOPRO 10L - Defatted toasted soybean flour. Sample is characteristic consistency, pale golden color, with no foreign odors. Sample contains no foreign visible impurities, or metal shavings (test with magnet).

Analysis	Result	Reference data	Methods	
Weight of sample [g]	150	-	VM/ MET 624 1)	Gravimetry
Mass of detected metal shavings [g]	0	-	VM/ MET 624 1)	Gravimetry
Content of metal shavings [%]	0	Not allowed	VM/ MET 624 1)	Gravimetry

Outside the scope of accreditation

Note

Source of reference values: art.26 paragraph 3 Law on Food Safety (Official Gazette of RS 41/2009, 17/2019).

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For the Sensory Testing Department: inž. Jelena Ivkov

Ubrub 7.

Microbiological testing

Analysis	I sample unit	II sample unit	III sample unit	IV sample unit	V sample unit	Reference data	Methods
Number aerobnih mezofilnih bacteria (30°C) [CFU/g]	3400	3000	2700	2500	2300	- n=5 c=2 m=104 M=105 ³⁾	SRPS EN ISO 4833:1 2014 Counting
Molds and yeasts [CFU/g]	60	40	70	50	80	- n=5 c=2 m=102 M=103 ³⁾	SRPS ISO 2127:2 2011 Counting
Enterobacteriaceae (37°C) [CFU/g]	< 10 ²⁾	< 10 ²⁾	< 10 ²⁾	< 10 ²⁾	< 10 ²⁾	- n=5 c=2 m=10 M=102 ³⁾	SRPS EN ISO 21528:2 2017 Counting
Clostridium perfringens [CFU/g]	< 10 ²⁾	< 10 ²⁾	< 10 ²⁾	< 10 ²⁾	< 10 ²⁾	- n=5 c=0 m=M=10 ³⁾	SRPS EN ISO 7937:2 2010 Counting
Salmonella spp [/25g]	Not detected	Not detected	Not detected	Not detected	Not detected	Not detected n=5 c=0 ³⁾	SRPS EN ISO 8536:1 2017/AF1 2020 Detection
Bacillus cereus (30°C) [CFU/g]	< 10 ²⁾	< 10 ²⁾	< 10 ²⁾	< 10 ²⁾	< 10 ²⁾	- n=5 c=0 m=M=50 ³⁾	SRPS EN ISO 7932:2 2009 Counting
Listeria monocytogenes (37°C) [/25g]	Not detected	Not detected	Not detected	Not detected	Not detected	Not detected n=5 c=0 ³⁾	SRPS EN ISO 11290:1 2017 Detection
Escherichia coli (44°C) [CFU/g]	< 10 ²⁾	< 10 ²⁾	< 10 ²⁾	< 10 ²⁾	< 10 ²⁾	- n=5 c=0 m=M=10 ³⁾	SRPS ISO 16649:2 2008 Counting
Staphylococcus aureus (37°C) [MPN/g]	0	0	0	0	0	- n=5 c=0 m=M=1 ³⁾	SRPS EN ISO 6088-3 2005 Detection and counting
Sulphitoreducing bakterije (37°C) [CFU/g]	< 10 ²⁾	< 10 ²⁾	< 10 ²⁾	< 10 ²⁾	< 10 ²⁾	- n=5 c=0 m=M=10 ³⁾	SRPS ISO 16213:2 2011 Counting

¹⁾ Limit of quantification (LOQ); ²⁾ Value of product specification

Note

Source of reference values: Product specification.

Results of physical-chemical contaminants/residues testing

Analysis	Result	Expanded measurement uncertainty ⁹⁾	Methods
4,4' – DDD [mg/kg]	< 0,01 ²⁾	± 50%	SRPS EN 15662 GC/MS/MS
4,4' – DDE [mg/kg]	< 0,01 ²⁾	± 50%	SRPS EN 15662 GC/MS/MS
4,4' – DDT [mg/kg]	< 0,01 ²⁾	± 50%	SRPS EN 15662 GC/MS/MS
Aldrin [mg/kg]	< 0,01 ²⁾	± 50%	SRPS EN 15662 GC/MS/MS
Alpha-BHC [mg/kg]	< 0,01 ²⁾	± 50%	SRPS EN 15662 GC/MS/MS
Beta-BHC [mg/kg]	< 0,01 ²⁾	± 50%	SRPS EN 15662 GC/MS/MS

Analysis	Result	Expanded measurement uncertainty ⁹⁾	Methods	
Chlordan-cis [mg/kg]	< 0,01 ²⁾	± 50%	SRPS EN 15662	GC/MS/MS
Chlordan-trans [mg/kg]	< 0,01 ²⁾	± 50%	SRPS EN 15662	GC/MS/MS
Delta-BHC [mg/kg]	< 0,01 ²⁾	± 50%	SRPS EN 15662	GC/MS/MS
Dieldrin [mg/kg]	< 0,01 ²⁾	± 50%	SRPS EN 15662	GC/MS/MS
Endosulfan I (alpha) [mg/kg]	< 0,01 ²⁾	± 50%	SRPS EN 15662	GC/MS/MS
Endosulfan II (beta) [mg/kg]	< 0,01 ²⁾	± 50%	SRPS EN 15662	GC/MS/MS
Endosulfan sulfate [mg/kg]	< 0,01 ²⁾	± 50%	SRPS EN 15662	GC/MS/MS
Endrin [mg/kg]	< 0,01 ²⁾	± 50%	SRPS EN 15662	GC/MS/MS
Endrin aldehyde [mg/kg]	< 0,01 ²⁾	± 50%	SRPS EN 15662	GC/MS/MS
Endrin ketone [mg/kg]	< 0,01 ²⁾	± 50%	SRPS EN 15662	GC/MS/MS
Heptachlor [mg/kg]	< 0,01 ²⁾	± 50%	SRPS EN 15662	GC/MS/MS
Heptachlor epoxide-cis (exo) [mg/kg]	< 0,01 ²⁾	± 50%	SRPS EN 15662	GC/MS/MS
Lindan (Gama-BHC) [mg/kg]	< 0,01 ²⁾	± 50%	SRPS EN 15662	GC/MS/MS
Methoxychlor [mg/kg]	< 0,01 ²⁾	± 50%	SRPS EN 15662	GC/MS/MS

¹⁾ Limit 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.3 appendix 2, art.5, appendix 4, art.6 and art.7 Regulation on the maximum permitted quantities of residues of plant protection products in food and feed (Official Gazette of RS 132/20)

Analysis	Result	Expanded measurement uncertainty ⁹⁾	Reference data	Methods	
Lead (Pb) [mg/kg]	< 0,01 ²⁾	± 25%	-	SRPS EN 15763	ICP/MS
Cadmium (Cd) [mg/kg]	0,042	± 0,0105	-	SRPS EN 15763	ICP/MS
Mercury (Hg) [mg/kg]	< 0,01 ²⁾	± 25%	-	SRPS EN 15763	ICP/MS
Arsenic (As) [mg/kg]	0,015	± 0,0038	-	SRPS EN 15763	ICP/MS
Aflatoxin (B1) [µg/kg]	< 0,3 ²⁾	± 44%	max 2	VM/MET 913	LC/MS/MS
Aflatoxin (B1+B2+G1+G2) [µg/kg]	< 0,3 ²⁾	± 44%	max 4	VM/MET 913	LC/MS/MS
Ochratoxin A [µg/kg]	< 0,8 ²⁾	± 44%	-	VM/MET 913	LC/MS/MS

¹⁾ Limit 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 SRPS EN 15763 is within the flexible scope of accreditation
Determination of mycotoxins by VM/MET 913 is within the flexible scope of accreditation

Note

Maximum allowable values by art.2, appendix 1 Regulation on maximum concentrations of certain contaminants in food (Official Gazette of RS 81/2019, 126/2020, 90/2021), for soy are:

- Cadmium (Cd) 0.2mg/kg (point 3.2.6.)

- Arsenic (As): not defined

Source of reference values: art.2 appendix 1, art.3 Regulation on maximum concentrations of certain contaminants in food (Official Gazette of RS 81/2019, 126/2020, 90/2021).

Results of physical-chemical testing

Analysis	Result	Expanded measurement uncertainty ⁹⁾	Reference data	Methods	
Water content [%]	6,12	± 0,379	max 8	Regulation, Method 1 ¹⁰³⁾	Drying
Crude protein (N*6,25), calculated on dry matter [%]	55,48	± 1,387	min 47	SRPS EN ISO 16634-1 2010	Method of total combustion
Crude ash, calculated on dry matter [%]	6,5	± 0,36	max 6,5	NMKL 173 2nd Ed.:2005	Annealing
Crude fat, calculated on dry matter [%]	1,2	± 0,06	max 2	Regulation, Method 2 ¹⁰³⁾	Soxhlet
Crude cellulose, calculated on dry matter [%]	2,33	± 0,443	max 3,5	SRPS ISO 5498:1996	Weende

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: art.26 Regulation of the quality albuminous products and a mixture of albuminous products for the food industry (Official Gazette of SFRJ 41/85)

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.

¹⁰³⁾ Regulation on the methods of sampling and conducting chemical and physical analysis of protein products for the food industry, Official Gazette of SFRJ 41/1985.

¹⁵⁹⁾ JRC Compendium of reference methods for GMO analysis

Results approved:

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

Report approved:

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



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

**Department of Radiology and
Radiation hygiene**
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SUBJECT: EXAMINATION REPORT NO. 2021/1504

SAMPLE ACCEPTANCE DATE: 21.09.2021.

SAMPLE ANALYSES: 21.09.2021.

DATE OF ISSUING REPORT: 21.09.2021.

According to your requirement No. 24656 dated 18.09.2021., the examination regarding the presence of radionuclides is done within the delivered sample and the following report has been made:

1. Sample:

R2109 2880 BIOPRO 10L - Degreased moderately toasted soy flour

2. Work Order No.: R21-19540

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	< 0,4	YES
⁴⁰ K	628 ± 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:

Head of Department:

Dr. sc. vet. med. Nikola Kostić

1. 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.