



APPENDIX TO THE CERTIFICATE OF ANALYSIS
R22-9032 for sample R22043942

Directive for analysis: 68 from 26.04.2022

Sample number	R22043942
Sample name	BIOPRO 10 - Defatted toasted soybean flour, Lot: 210422E3A13594
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 albuminous products and a mixture of albuminous products for the food industry (Official Gazette of SFRJ 41/85).	
STATEMENT OF CONFORMITY MICROBIOLOGICAL TESTING: The obtained results of the analyzed parameters are ACCEPTABLE in regard to product specification.	
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, 118/2021).	
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 crude ash, calculated on dry matter and crude cellulose, calculated on dry matter.)	

APPENDIX:

Report on examination of the radioactivity of 2022/740 for sample R2204 3942

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

16.05.2022

Predrag Mulićević MS
Specialist in Sanitary Chemistry

By certificate of analysis number R22-9032 sample was analyzed R22043942.

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



CERTIFICATE OF ANALYSIS R22-9032 / R22043942
Sample number: R22043942

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	68 from 26.04.2022.
Sample name	BIOPRO 10 - Defatted toasted soybean flour, Lot: 210422E3A13594
Asked analysis	Product safety + Analysis by client's request
Sampling data	Sample was delivered 26.04.2022.
Sample receiving date	26.04.2022.
Start testing date	27.04.2022.
End testing date	16.05.2022.
Report number	R22-9032
Date of issue of the report	16.05.2022.

APPENDIX:

Report on examination of the radioactivity of 2022/740 for sample R2204 3942

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 R22-9032 sample was analyzed R22043942.

R22043942: BIOPRO 10 - Defatted toasted soybean flour, Lot: 210422E3A13594

Identification:

Data obtained from user:

Expiry date: 21.04.2024.

Lot: 210422E3A13594

Net weight of delivered sample: 7x400 g

-General look:

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

Based on delivered documentation, sample is BIOPRO 10 - 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]	400	-	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

¹⁾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).

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

Handwritten signature

Microbiological testing:

Analysis	I sample unit	II sample unit	III sample unit	IV sample unit	V sample unit	Reference data	Methods
Aerobic mesophilic bacteria (30°C) [CFU/g]	570	460	520	650	400	- n=5 c=2 m=10 ⁴ M=10 ^{5.3}	SRPS EN ISO 4833-1:2014 Counting
Molds and yeasts [CFU/g]	60	< 10 ²	40	500	380	- n=5 c=2 m=10 ² M=10 ^{3.3}	SRPS ISO 21527-2:2011 Counting
Enterobacteriaceae (37°C) [CFU/g]	< 10 ²	< 10 ²	< 10 ²	< 10 ²	< 10 ²	- n=5 c=2 m=10 M=10 ^{2.3}	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 7937:2010 Counting
Salmonella spp [1/25g]	Not detected	Not detected	Not detected	Not detected	Not detected	Not detected n=5 c=0 ³⁾	SRPS EN ISO 6579-1:2017/A1 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 7932:2009 Counting
Listeria monocytogenes (37°C) [1/25g]	Not detected	Not detected	Not detected	Not detected	Not detected	Not detected 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 6888-3:2009 Detection and counting
Sulphitoreducing bacteria (37°C) [CFU/g]	< 10 ²	< 10 ²	< 10 ²	< 10 ²	< 10 ²	- n=5 c=0 m=M=10 ³⁾	SRPS ISO 15213:2011 Counting

²⁾Limit of quantification (LOQ); ³⁾Value of product specification

Note:

Source of reference values: product specification.

Results of physical-chemical residue pesticide 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
Dieldrin [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
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

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Analysis	Result	Expanded measurement uncertainty ⁹⁾	Methods	
Delta-BHC [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 (Gamma-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

²⁾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).

Results of physical-chemical contaminants/residues testing:

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]	0,014	± 0,0035	-	SRPS EN 15763	ICP/MS
Mercury (Hg) [mg/kg]	< 0,01 ²⁾	± 25%	-	SRPS EN 15763	ICP/MS
Arsenic (As) [mg/kg]	0,026	± 0,0065	-	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

²⁾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 permitted value by art.2, appendix 1 Regulation on maximum concentrations of certain contaminants in food (Official Gazette of RS 81/2019, 126/2020, 90/2021, 118/2021):

- oilseeds (soybean)
- Cadmium (Cd): 0,2mg/kg (point 3.2.11.3.)
- 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, 118/2021).

Results of physical-chemical testing

Analysis	Result	Expanded measurement uncertainty ⁹⁾	Reference data	Methods	
Water content [%]	6,14	± 0,381	max 8	Regulation, Method 1 ¹⁰³⁾	Drying
Crude protein (N*6,25), calculated on dry matter [%]	54,13	± 1,353	min 47	SRPS EN ISO 16634-1:2010	Method of total combustion
Crude ash, calculated on dry matter [%]	6,47	± 0,362	max 6,5	NMKL 173, 2nd Ed.:2005	Annealing
Crude fat, calculated on dry matter [%]	0,83	± 0,043	max 2	Regulation, Method 2 ¹⁰³⁾	Soxhlet
Crude cellulose, calculated on dry matter [%]	3,02	± 0,574	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 ¹⁵⁶⁾	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 SFRY 41/1985; ¹⁵⁶⁾JRC Compendium of reference methods for GMO analysis

Results approved:

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

Report approved:

Predrag Vulićević MS, Specialist in Sanitary Chemistry	<i>PVulicevic</i>
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6. Test location in SP Laboratory: Industrijska 3, 21220 Bečej



Client

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21220 Bečej
Tel/fax: 021-6912-545

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Radiation hygiene**
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SUBJECT: EXAMINATION REPORT NO. 2022/740

SAMPLE ACCEPTANCE DATE: 29.04.2022.

SAMPLE ANALYSES: 29.04.2022.

DATE OF ISSUING REPORT: 29.04.2022.

According to your requirement No. 26085 dated 27.04.2022., the examination regarding the presence of radionuclides is done within the delivered sample and the following report has been made:

1. Sample:

R2204 3942 BIOPRO 10 – Degreased toasted soy flour, Lot: 210422E3A13594

2. Work Order No.: R22-9032

3. Quantity/mass: /

4. Country of Origin: /

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 TO REGULATIONS
¹³⁴ Cs	< 0,8	YES
¹³⁷ Cs	< 1,0	
⁴⁰ K	967 ± 70	

11. Conclusion: The results of measured radioactivity in the delivered sample **show no radionuclide presence beyond the regulations** (Official Gazette RS 36/2018 of 0.05.2018.).

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:

Redovni profesor
Head of Department: Krstić

- It is forbidden to distribute analysis results without approval from Faculty of veterinary medicine, Department for Radiology and Radiation Hygiene
1. Results are valid only for examined sample.