



APPENDIX TO THE CERTIFICATE OF ANALYSIS
R21-18704 for sample R21091264

Directive for analysis: 341 from 07.09.2021

Sample number	R21091264
Sample name	BIOPRO 32 - Enzymes actively soft soy 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 these data examined sample is in compliance with art.24 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 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).	
STATEMENT OF CONFORMITY PHYSICAL-CHEMICAL TESTING:	
Based on the results of the parameters analyzed sample is in compliance with art.24 Regulation of the quality albuminous products and a mixture of albuminous products for the food industry (Official Gazette of SFRJ 41/85).	

APPENDIX:

Report on examination of the radioactivity of 2021/1465 for sample R2109 1264

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

22.09.2021

Predrag Vulićević MS
Specialist in Sanitary Chemistry

By certificate of analysis number R21-18704 sample was analyzed R21091264.

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 R21-18704 / R21091264
Sample number: R21091264

Applicant	FABRIKA PROTEINA I ULJA BIOPROTEIN DOO, BEOGRAD (ZEMUN), Beograd - Zemun, Bulevar Nikole Tesle 30 A
Directive for analysis	341 from 07.09.2021.
Sample name	BIOPRO 32 - Enzymes actively soft soy flour
Asked analysis	Product safety+ Analysis by client's request
Sampling data	Sample was delivered 08.09.2021.
Sample receiving date	08.09.2021.
Start testing date	08.09.2021.
End testing date	22.09.2021.
Report number	R21-18704
Date of issue of the report	22.09.2021.

APPENDIX:

Report on examination of the radioactivity of 2021/1465 for sample R2109 1264

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 R21-18704 sample was analyzed R21091264.

R21091264: BIOPRO 32 - Enzymes actively soft soy flour

Identification:

Data obtained from user:

Expiry date: 18.05.2022.

Lot: 180821F1A2293

Net weight of delivered sample: 4x150 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 32 - Enzymes actively soft soy flour. Sample is characteristic consistency and 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]	100	-	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: inž. Jelena Ivkov

Ubrzo 7.

Microbiological testing

Analysis	Result	Methods	
Enterobacteriaceae (37°C) [CFU/g]	230	SRPS EN ISO 21528-2:2017	Counting
Salmonella spp. [/25g]	Not detected	SRPS EN ISO 6579-1:2017/A1:2020	Detection

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
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

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)

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]	0,04	± 0,010	-	SRPS EN 15763	ICP/MS
Mercury (Hg) [mg/kg]	< 0,01 ²⁾	± 25%	-	SRPS EN 15763	ICP/MS
Arsenic (As) [mg/kg]	0,017	± 0,0043	-	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), for soy is:

- 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).

Results of physical-chemical testing

Analysis	Result	Expanded measurement uncertainty ⁹⁾	Reference data	Methods	
Water content [%]	5,45	± 0,338	max 8	Regulation, Method 1 ¹⁰³⁾	Drying
Crude protein (N*6,25), calculated on dry matter [%]	39,87	± 1,595	min 38	SRPS EN ISO 16634-1:2010	Method of total combustion
Crude ash, calculated on dry matter [%]	5,03	± 0,282	max 5,5	NMKL 173, 2nd Ed 2005	Annealing
Crude fat, calculated on dry matter [%]	26,77	± 1,392	min 18	Regulation, Method 2 ¹⁰³⁾	Soxhlet
Crude cellulose, calculated on dry matter [%]	2,07	± 0,393	max 4,5	SRPS ISO 5498:1996	Weende
Urease activity [ΔpH]	1,88	± 0,301	-	AOCS Ba 9-58:2017	Potentiometry
Granulation (falling through the sieve xxx mm) [%]	98	± 1,0	min 90	SRPS ISO 2591-1:1992	Sieving, Gravimetry

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.24 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


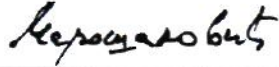
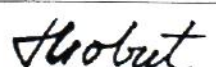
According to article 3 of the Law on Genetically Modified Organisms (Official Gazette of RS 41/2009), genetically modified organisms is not considered an agricultural product of vegetable origin contain up to 0.9% threshold of genetically modified organisms and impurities of genetically modified organisms.

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.

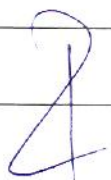
¹⁰³⁾Regulation on the methods of sampling and conducting chemical and physical analysis of protein products for the food industry. Official Gazette of SFRY 41/1985;

¹⁵⁹⁾JRC Compendium of reference methods for GMO analysis

Results approved:

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

Report approved:

Predrag Vuličević MS, Specialist in Sanitary Chemistry	
--	---

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

Faculty of Veterinary Medicine
University of Belgrade
Department of Radiology and
Radiation hygiene
Bulevar Oslobođenja 18
Belgrade
Serbia



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. 2021/1465

SAMPLE ACCEPTANCE DATE: 13.09.2021.
SAMPLE ANALYSES: 13.09.2021.
DATE OF ISSUING REPORT: 13.09.2021.

According to your requirement No. 24602 dated 09.09.2021., the examination regarding the presence of radionuclides is done within the delivered sample and the following report has been made:

- Sample:**
R2109 1264 BIOPRO 32 -Enzymatic active soft soy flour
- Work Order No.:** R21-18704
- Quantity/mass:/**
- Country of Origin:** Serbia
- Importer:/**
- Vehicle number:/**
- Sampler:/**
- 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	< 0,9	YES
⁴⁰ K	714 ± 45	

1. 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.).

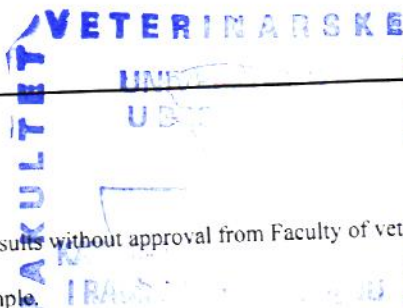
The examination has been done by the method of low-level gamma spectrometry on HPGe detector based on IAEA Technical Report 295.

Deliver to:

- Client
- Archive

Examiner:

dr vet med. Borjana Vranjes
asistent



Head of Department:

Dr sci. vet. med. Nikola Krstić

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

FVM RH ZA 3