



APPENDIX TO THE CERTIFICATE OF ANALYSIS
R22-8312 for sample R22042539

Directive for analysis: 138 from 14.04.2022

Sample number	R22042539
Sample name	BIOPRO 30 (Whole light toasted soft soybean flour)
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) and Regulation (EC) No 396/2005 of the European Parliament and of the Council on maximum residue levels of pesticides in or on food and feed of plant and animal origin and amending Council Directive 91/414/EEC and Annexes I, II, III, IV and VII. 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) and Commission Regulation (EC) No 1881/2006 setting maximum levels for certain contaminants in foodstuffs.	

09.05.2022

Predrag Vulićević MS
Specialist in Sanitary Chemistry

By certificate of analysis number R22-8312 sample was analyzed R22042539.

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 R22-8312 / R22042539
Sample number: R22042539

Applicant	FABRIKA PROTEINA I ULJA BIOPROTEIN DOO, BEOGRAD (ZEMUN), Beograd - Zemun, Bulevar Nikole Tesle 30 A
Directive for analysis	138 from 14.04.2022.
Sample name	BIOPRO 30 (Whole light toasted soft soybean flour)
Asked analysis	Analysis by client's request
Sampling data	Sample was delivered 14.04.2022.
Sample receiving date	14.04.2022.
Start testing date	15.04.2022.
End testing date	29.04.2022.
Report number	R22-8312
Date of issue of the report	09.05.2022.

By certificate of analysis number R22-8312 sample was analyzed R22042539.

R22042539: BIOPRO 30 (Whole light toasted soft soybean flour)

Identification:

Data obtained from user:
Expiry date: 12.01.2023.
Lot: 120422F1A1881

Net weight of delivered sample: 7 x 200 g (Supplement was delivered 19.04.2022. 200g)

-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 30 (Whole light toasted soft soybean flour). Sample is characteristic consistency, light brownish color, with no foreign odors. It does not contain visible impurities, nor metal shavings (magnet control).

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

UBROB 7.

Microbiological testing:

Analysis	I sample unit	II sample unit	III sample unit	IV sample unit	V sample unit	Reference data	Methods	
Salmonella spp. [25g]	Not detected	Not detected	Not detected	Not detected	Not detected	Not detected n=5 c=0 ²⁾	SRPS EN ISO 6579-1:2017/A1:2020	Detection
Aerobic mesophilic bacteria (30°C) [CFU/g]	1500	1800	2300	2000	1700	- n=5 c=2 m=10 ⁴ M=10 ⁵ ³⁾	SRPS EN ISO 4833-1:2014	Counting
Yeasts and molds [CFU/g]	< 10 ²⁾	< 10 ²⁾	< 10 ²⁾	< 10 ²⁾	< 10 ²⁾	- 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=1 m=10 M=10 ² ³⁾	SRPS EN ISO 7937:2010	Counting
Coliform bacteria [CFU/g]	< 10 ²⁾	< 10 ²⁾	< 10 ²⁾	< 10 ²⁾	< 10 ²⁾	- n=5 c=0 m=M=10 ³⁾	SRPS ISO 4832:2014	Counting
Listeria monocytogenes (37°C) [25g]	Not detected	Not detected	Not detected	Not detected	Not detected	Not detected n=5 c=0 ²⁾	SRPS EN ISO 11290-1:2017	Detection
Escherichia coli (44°C) [g]	Not detected	Not detected	Not detected	Not detected	Not detected	Not detected n=5 c=0 ²⁾	SRPS ISO 7251:2018	Detection
Bacillus cereus (30°C) [CFU/g]	< 10 ²⁾	< 10 ²⁾	< 10 ²⁾	< 10 ²⁾	< 10 ²⁾	- n=5 c=1 m=10 ² M=10 ³ ³⁾	SRPS EN ISO 7932:2009	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	
Residue of pesticides (shown in the table 1) [mg/kg]	< 0,003 ²⁾	± 50%	SRPS EN 15662	GC/MS/MS
Residue of pesticides (shown in the table 2) [mg/kg]	< 0,005 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	GC/MS/MS
Residue of pesticides (shown in the table 4) [mg/kg]	< 0,01 ²⁾	± 50%	SRPS EN 15662	LC/MS/MS
Residue of pesticides (shown in the table 5) [mg/kg]	< 0,01 ²⁾	± 50%	VM/MET 887	GC/MS/HSS

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; VM/MET 887 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) and Regulation (EC) No 396/2005 of the European Parliament and of the Council on maximum residue levels of pesticides in or on food and feed of plant and animal origin and amending Council Directive 91/414/EEC and Annexes I, II, III, IV and VII

Results of physical-chemical contaminants/residues testing:

Analysis	Result	Expanded measurement uncertainty ⁹⁾	Reference data	Methods	
Cadmium (Cd) [mg/kg]	0,029	± 0,0073	-	SRPS EN 15763	ICP/MS
Lead (Pb) [mg/kg]	< 0,01 ²⁾	± 25%	-	SRPS EN 15763	ICP/MS
Arsenic (As) [mg/kg]	0,017	± 0,0043	-	SRPS EN 15763	ICP/MS
Mercury (Hg) [mg/kg]	< 0,01 ²⁾	± 25%	-	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) and Commission Regulation (EC) No 1881/2006 setting maximum levels for certain contaminants in foodstuffs, is:

- for 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) and Commission Regulation (EC) No 1881/2006 setting maximum levels for certain contaminants in foodstuffs

Results of physical-chemical testing

Analysis	Result	Expanded measurement uncertainty ⁹⁾	Reference data	Methods	
Water content [%]	2,05	± 0,127	max 8	Regulation, Method 1 ¹⁰³⁾	Sušenje
Crude protein (N*6,25), calculated on dry matter [%]	41,68	± 1,667	min 38	SRPS EN ISO 16634-1:2010	Method of total combustion
Crude ash, calculated on dry matter [%]	5,25	± 0,294	max 5,5	NMKL 173, 2nd Ed.:2005	Annealing
Crude fat, calculated on dry matter [%]	23,94	± 1,245	min 18	Regulation, Method 2 ¹⁰³⁾	Soxhlet
Crude cellulose, calculated on dry matter [%]	3,29	± 0,625	max 4,5	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.23 and 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 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.

Table 1 - List of analyzed pesticide residues (LFO 001) in the delivered sample with the determined concentrations <LOQ (limit of quantification)	
Cadusafos	Fensulfothion

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

Table 3 - List of analyzed pesticide residues (LFO 001) in the delivered sample with the determined concentrations <LOQ (limit of quantification)					
2,4-DDT	4,4' - DDD	4,4' - DDE	4,4' - DDT	Acetochlor	Acionifen
Acrinathrin	Alachlor	Aldrin	Dieldrin	Alpha-BHC	Aramite
Atrazin	Azinphos-ethyl	Azinphos-methyl	Beflubutamid	Benalaxyl	Benfluralin
Benthiavalcarb-isopropyl	Beta-BHC	Bifenox	Bifenthrin	Biphenyl	Bitertanol
Boscalid (Nicofen)	Bromophos-ethyl	Bromopropylate	Bromuconazole I	Bromuconazole II	Bupirimate
Buprofezin	Butralin	Captan	Captan	Carboxin	Carfentrazone-ethyl
Chlorbenside	Chlordan-cis	Chlordan-trans	Chlorfenapyr	Chlorfenson	Chlorfenvinphos
Chlorobenzilate	Chlorthalonil	Chlorpropham	Chlorpyrifos-ethyl	Chlorpyrifos-methyl	Chlorthal-dimethyl
Chlozolinate	Cinidon-ethyl	Clomazone	Cyflufenamid	Cyfluthrin I	Cyfluthrin II
Cyfluthrin III	Cyfluthrin IV	Cyhalofop-butyl	Cypermethrin I	Cypermethrin II	Cypermethrin III
Cypermethrin IV	Cyproconazole	Cyprodinil	Delta-BHC	Deltamethrin	Diallate I
Diallate II	Diazinon	Dichlobenil	Dichlorvos	Diclofop methyl	Dicloran
Difenoconazol	Diffufenican	Dimethachlor	Dimethipin	Dimethomorph (E)	Dimethomorph (Z)
Dimoxystrobin	Diniconazole	Binapacryl	Diphenylamine	Disulfoton	Disulfoton sulfone
Endosulfan I (alpha)	Endosulfan II (beta)	Endosulfan sulfate	Endrin	Endrin aldehyde	Endrin ketone
Epoxiconazole	Ethion	Ethofenprox	Ethoprophos	Ethoxyquin	Etoazole
Etridazole	Famoxadone	Fenamidone	Fenamiphos	Fenarimol	Fenazaquin
Fenbuconazole	Fenchlorphos	Fenitrothion	Fenoxaprop-p-ethyl	Fenpropathrin	Fenpropidin
Fenpropimorph	Fenthion	Fenthion-sulfoxide	Fenvalerate	Esfenvalerate	Fipronil
Flucythrinate I	Flucythrinate II	Flufenacet	Flumioxazin	Flurochloridone	Fluquinconazole
Flurprimidol	Flusilazole	Flutolanil	Flutriafol	Folpet	Heptachlor
Heptachlor epoxide-cis (exo)	Hexachlorobenzene (HCB)	Hexaconazole	Imazalil	Ipconazole	Iprodione
Kresoxim-methyl	Lactofen	Lambda-Cyhalothrin	Lindan (Gama-BHC)	Malaaxon	Malathion
Mecarbam	Mepanipyrim	Mepronil	Metalaxyl	Metamitron	Metconazole
Methacryfos	Methamidophos	Methidathion	Methoprene	Methoxychlor	Metolachlor
Metrafenone	Metribuzin	Mevinphos (Phosdrin)	Monocrotophos	Myclobutanil	Napropamide
Nitrofen	Orthophenylphenol (2-Phenylphenol)	Oxadiazon	Oxadixyl	Oxyfluorfen	Paclobutrazol
Parathion-ethyl	Parathion-methyl	Paraaxon-methyl	Penconazole	Pendimethalin	Permethrin-cis
Permethrin-trans	Phenotrin	Phorat	Phosalone	Phosphamidon	Picolinafen
Picoxystrobin	Pirimiphos-methyl	Prochloraz	Procymidone	Profenofos	Propanil
Propargite	Propham	Propiconazole I	Propiconazole II	Propisochlor	Propyzamide
Proquinazid	Pyrazophos	Pyrethrins (Pyrethrin I i Pyrethrin II)	Pyridaben	Pyridalyl	Pyriminobac-methyl
Pyrimethanil	Pyriproxyfen	Quinalphos	Quinoxifen	Quintozene	Resmethrin I
Resmethrin II	Simazin	Spirodiclofen	Spiromesifen	Spiroxamine I	Spiroxamine II
Tau-Fluvalinate	Tebuconazole	Tebufenpyrad	Tecnazene	Tefluthrin	TEPP
Terbufos	Terbutylazin	Tetraconazole	Tetradifon	Tolclofos-methyl	Triadimefon

Table 3 - List of analyzed pesticide residues (LFO 001) in the delivered sample with the determined concentrations <LOQ (limit of quantification)					
Triadimenol	Triallate	Triazophos	Trifloxystrobin	Triflumizole	Trifluralin
Triticonazole	Vinclozolin				

Table 4 - List of analyzed pesticide residues (LFO 001) in the delivered sample with the determined concentrations <LOQ (limit of quantification)					
Abamectin	Acephate	Acetamiprid	Aldicarb	Aldicarb-sulfone	Aldicarb-sulfoxide
Amidosulfuron	Amitraz	Azoxystrobin	Barban	Butylate	Carbaryl
Carbendazim	Benomyl	Carbetamide	Carbofuran	Carbofuran-3-Hydroxy	Benfuracarb
Carbosulfan	Furathiocarb	Oxycarboxin (Carboxin sulfone)	Chlorantraniliprole	Chlorotoluron	Chloroxuron
Clofentezine	Clothianidin	Cyazofamid	Cycloate	Cycloxydim	Cymoxanil
Cyromazine	Desmedipham	Diethofencarb	Diflubenzuron	Dimethenamid	Dimethoate
Dinoseb	Dioxathion	Diuron	DNOC	Dodine	EPTC
Ethirimol	Ethofumesate	Fenhexamid	Fenoxycarb	Fenpyroximate	Flazasulfuron
Florasulam	Fluazinam	Fludioxonil	Flufenoxuron	Fluometuron	Fluopicolide
Fluopyram	Fluoxastrobil	Flurtamone	Fomesafen	Formetanat	Fosthiazate
Fuberidazole	Imidacloprid	Indoxacarb	Iprovalicarb	Isoproturon	Isoxaben
Lenacil	Linuron	Lufenuron	Mandipropamid	Metaflumizone	Methabenzthiazuron
Methiocarb	Methiocarb-sulfone	Methiocarb-sulfoxide	Methomyl	Methoxyfenozide	Metosulam
Metsulfuron-methyl	Monolinuron	Monuron	Novaluron	Omethoate	Oryzalin
Oxamyl	Oxydemeton-methyl (Demeton-S-methyl sulfoxide)	Demeton-S-methylsulfon	Phenmedipham	Phosmet	Phoxim
Pirimicarb	Propachlor	Propamocarb	Propoxur	Prosulfocarb	Prosulfuron
Pymetrozin	Pyraclorobin	Rotenone	Spinetoram	Spinosad (Spynosyn A i Spynosyn D)	Sulcotrione
Sulfosulfuron	Tebufenozide	Teflubenzuron	Tepraloxymid	Thiabendazole	Thiacloprid
Thiametoxam	Thifensulfuron-methyl	Thiodicarb	Thiophanat-methyl	Tolyfluanid	Triasulfuron
Tribenuron-methyl	Trichlorfon	Tricyclazole	Tridemorph	Trifluriduron	Zoxamide

Table 5 - List of analyzed pesticide residues (LFO 001) in the delivered sample with the determined concentrations <LOQ (limit of quantification)	
Dithiocarbamates (expressed as CS ² , including Ziram, Thiram, Maneb, Mancozeb, Propineb, Metiram)	

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	<i>J. 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	
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