REPUBLIKA SRBIJA
SP LABORATORIJA AD BEČEJ
MEMBER OF HAMILTON GROUP
Industrijska 3, 21220 Bečej

APPENDIX TO THE TEST REPORT
R24-6823.I2 for sample R24031757.I2

Order for analyses: / 06.03.2024

Sample number	R24031757.I2
Sample name	*HIGH OLEIC CRUDE SUNFLOWER OIL: GEBI d.o.o. Čantavir*

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).

Based on the results of the analyzed parameters sample is in compliance with 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, 127/2022, 110/2023).

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 no. 91/2022 and 26/2024), in terms of determination of organochlorine pesticides.

Predrag Vulićević MS
Specialist in Sanitary Chemistry

11.04.2024

By test report number R24-6823.I2 sample was analyzed R24031757.I2.

When providing statement of conformity, a binary (simple) decision rule with shared risk without guard band was applied. Decision rules are available on the website www.splaboratorija.rs/dokumenta in the document Decision rules (excerpt from POS 021 Reporting of results).

Statement:

1. This report shall not be multiplied, except in full, without 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 LABORATORIJA 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 customers.
5. SP LABORATORIJA disclaims responsibility for the validity of the results for whose statements the data obtained from the customers have been used.
6. SP LABORATORIJA disclaims responsibility for statements of conformity issued on the basis of testing of aggregate samples at the request of the customer
7. Test location in SP LABORATORIJA: Industrijska 3, 21220 Bečej
8. According to art.25 Law on Business Company ("Official Gazette of RS", no. 36/2011, 99/2011, 83/2014 - other law, 5/2015, 44/2018, 95/2018, 91/2019 and 109/2021) test report and appendix to the test report is valid without a stamp
9. This test report replaces the previous one with a number R24-6823.I1. Modification done because of additional customer request-tumačenje rezultata on the sample R24031757.I1.

SP LABORATORIJA AD BEČEJ, 21220 BEČEJ, Industrijska 3, Republika Srbija
tel: +381 21 6811-603; fax: +381 21 6912-545; www.splaboratorija.rs; e-mail: splaboratorija@splaboratorija.rs

OBR 130 Izdanje 15 od 28.03.2024.

REPUBLIKA SRBIJA
SP LABORATORIJA AD BEČEJ
MEMBER OF HAMILTON GROUP
Industrijska 3, 21220 Bečej

QS. Quality scheme for food. www.q-s.de Approved for residue monitoring fruit, vegetables, potatoes

Gafta APPROVED ANALYST

Member of FOSFA INTERNATIONAL

ATC 01-018 ЛАБОРАТОРИЈА ЗА ИСПИТИВАЊЕ ISO/IEC 17025

ilac-MRA

SP Laboratorija is GMP+ B11 registered laboratory under number GMP049738

TEST REPORT R24-6823.I2 / R24031757.I2
Sample number: R24031757.I2

Applicant	GEBI PROIZVODNO-TRGOVINSKO DRUŠTVO SA OGRANIČENOM ODGOVORNOŠĆU PO ČANTAVIR, MARŠALA TITA 46, Čantavir
Order for analyses	/ 06.03.2024.
Sample name	HIGH OLEIC CRUDE SUNFLOWER OIL: GEBI d.o.o. Čantavir
Required analyses	Analysis by client's request
Sampling data	Sample was delivered 06.03.2024.
Sample receiving date	06.03.2024.
Start testing date	08.03.2024.
End testing date	11.04.2024.
Date of issue of the report	11.04.2024.

By test report number R24-6823.I2 sample was analyzed R24031757.I2.

R24031757.I2: HIGH OLEIC CRUDE SUNFLOWER OIL: GEBI d.o.o. Čantavir

Identification:

Net quantity of delivered sample: 5 x 1 l
Sample was delivered in original undamaged packaging

Results of physical-chemical contaminants/residues testing:

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%	max 1	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
Benzo (a) pyrene [µg/kg]	< 1 [2)]	± 35%	-	VM/MET 1116	GC/MS/MS
Benzo (a) antracen [µg/kg]	< 1 [2)]	± 35%	-	VM/MET 1116	GC/MS/MS
Benzo (b) fluoranten [µg/kg]	< 1 [2)]	± 35%	-	VM/MET 1116	GC/MS/MS
Chrysene [µg/kg]	< 1 [2)]	± 35%	-	VM/MET 1116	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 metals and metalloids by VM/MET 865 is within the flexible scope of accreditation.

SP LABORATORIJA AD BEČEJ, 21220 BEČEJ, Industrijska 3, Republika Srbija
tel: +381 21 6811-603; fax: +381 21 6912-545; www.splaboratorija.rs; e-mail: splaboratorija@splaboratorija.rs

OBR 103 Izdanje 22 od 22.05.2023.

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).

Analysis	Result	Expanded measurement uncertainty [9)]	Methods
MOSH/POSH C10 - C16 [mg/kg]	Not detected	-	PV-SA-132 (HPLC/GC-FID)
MOSH/POSH C17 - C20 [mg/kg]	Not detected	-	PV-SA-132 (HPLC/GC-FID)
MOSH/POSH C21 - C25 [mg/kg]	Not detected	-	PV-SA-132 (HPLC/GC-FID)
MOSH/POSH C26 - C35 [mg/kg]	1,19	± 0,419	PV-SA-132 (HPLC/GC-FID)
MOSH/POSH C36 - C40 [mg/kg]	0,55	± 0,196	PV-SA-132 (HPLC/GC-FID)
MOSH/POSH C41 - C50 [mg/kg]	< 0,5 [2)]	-	PV-SA-132 (HPLC/GC-FID)
Suma MOSH/POSH C10 - C50 [mg/kg]	1,74	± 0,610	PV-SA-132 (HPLC/GC-FID)
MOSH/POSH total integrated fraction C10 - C50 [mg/kg]	2,13	± 0,749	PV-SA-132 (HPLC/GC-FID)
MOAH C10 - C16 [mg/kg]	Not detected	-	PV-SA-132 (HPLC/GC-FID)
MOAH C17 - C25 [mg/kg]	Not detected	-	PV-SA-132 (HPLC/GC-FID)
MOAH C26 - C35 [mg/kg]	Not detected	-	PV-SA-132 (HPLC/GC-FID)
MOAH C36 - C50 [mg/kg]	Not detected	-	PV-SA-132 (HPLC/GC-FID)
Suma MOAH C10 - C50 [mg/kg]	Not detected	-	PV-SA-132 (HPLC/GC-FID)
MOSH/POSH total integrated fraction C10 - C50* [mg/kg]	Not detected	-	PV-SA-132 (HPLC/GC-FID)

[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%

The test was performed within the scope of accreditation in the laboratory under accreditation number D-PL-14400-01-00.

LOQ=0,50 mg/kg

MOAH fraction is subjected to epoxidation to eliminate potential interferences, e.g. olefins.

Results of physical-chemical residue pesticide testing:

Analysis	Result	Expanded measurement uncertainty [9)]	Methods	
4,4' – DDD, calculated at 12% moisture [mg/kg]	< 0,01 [2)]	± 50%	SRPS EN 15662	GC/MS/MS
4,4' – DDE, calculated at 12% moisture [mg/kg]	< 0,01 [2)]	± 50%	SRPS EN 15662	GC/MS/MS
4,4' – DDT, calculated at 12% moisture [mg/kg]	< 0,01 [2)]	± 50%	SRPS EN 15662	GC/MS/MS
Aldrin, calculated at 12% moisture [mg/kg]	< 0,01 [2)]	± 50%	SRPS EN 15662	GC/MS/MS
Dieldrin, calculated at 12% moisture [mg/kg]	< 0,01 [2)]	± 50%	SRPS EN 15662	GC/MS/MS
Alpha-BHC, calculated at 12% moisture [mg/kg]	< 0,01 [2)]	± 50%	SRPS EN 15662	GC/MS/MS
Beta-BHC, calculated at 12% moisture [mg/kg]	< 0,005 [2)]	± 50%	SRPS EN 15662	GC/MS/MS
Chlordan-cis, calculated at 12% moisture [mg/kg]	< 0,01 [2)]	± 50%	SRPS EN 15662	GC/MS/MS
Chlordan-trans, calculated at 12% moisture [mg/kg]	< 0,01 [2)]	± 50%	SRPS EN 15662	GC/MS/MS
Delta-BHC, calculated at 12% moisture [mg/kg]	< 0,01 [2)]	± 50%	SRPS EN 15662	GC/MS/MS
Endosulfan I (alpha), calculated at 12% moisture [mg/kg]	< 0,005 [2)]	± 50%	SRPS EN 15662	GC/MS/MS
Endosulfan II (beta), calculated at 12% moisture [mg/kg]	< 0,005 [2)]	± 50%	SRPS EN 15662	GC/MS/MS

SP LABORATORIJA AD BEČEJ, 21220 BEČEJ, Industrijska 3, Republika Srbija
tel: +381 21 6811-603; fax: +381 21 6912-545; www.splaboratorija.rs; e-mail: splaboratorija@splaboratorija.rs

Analysis	Result	Expanded measurement uncertainty [9)]	Methods	
Endosulfan sulfate, calculated at 12% moisture [mg/kg]	< 0,005 [2)]	± 50%	SRPS EN 15662	GC/MS/MS
Endrin, calculated at 12% moisture [mg/kg]	< 0,01 [2)]	± 50%	SRPS EN 15662	GC/MS/MS
Endrin aldehyde, calculated at 12% moisture [mg/kg]	< 0,01 [2)]	± 50%	SRPS EN 15662	GC/MS/MS
Endrin ketone, calculated at 12% moisture [mg/kg]	< 0,01 [2)]	± 50%	SRPS EN 15662	GC/MS/MS
Heptachlor, calculated at 12% moisture [mg/kg]	< 0,01 [2)]	± 50%	SRPS EN 15662	GC/MS/MS
Heptachlor epoxide-cis (exo), calculated at 12% moisture [mg/kg]	< 0,01 [2)]	± 50%	SRPS EN 15662	GC/MS/MS
Hexachlorobenzene, calculated at 12% moisture [mg/kg]	< 0,01 [2)]	± 50%	SRPS EN 15662	GC/MS/MS
Lindan (Gama-BHC), calculated at 12% moisture [mg/kg]	< 0,01 [2)]	± 50%	SRPS EN 15662	GC/MS/MS
Methoxychlor, calculated at 12% moisture [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.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).

Dioxins/ Furans/ PCBs similar to dioxins/ PCBs not similar to dioxins

Analysis	Result	Expanded measurement uncertainty [9)]	Reference data	Methods	
2,3,7,8-TCDD [ng/kg]	< 0,05 [2)]	± 0,01	-	PB-408 ed.III	GC/HRMS
1,2,3,7,8-PeCDD [ng/kg]	< 0,05 [2)]	± 0,01	-	PB-408 ed.III	GC/HRMS
1,2,3,4,7,8-HxCDD [ng/kg]	< 0,05 [2)]	± 0,01	-	PB-408 ed.III	GC/HRMS
1,2,3,6,7,8-HxCDD [ng/kg]	< 0,05 [2)]	± 0,01	-	PB-408 ed.III	GC/HRMS
1,2,3,7,8,9-HxCDD [ng/kg]	< 0,05 [2)]	± 0,01	-	PB-408 ed.III	GC/HRMS
1,2,3,4,6,7,8-HpCDD [ng/kg]	< 0,05 [2)]	± 0,01	-	PB-408 ed.III	GC/HRMS
OCDD [ng/kg]	< 0,1 [2)]	± 0,02	-	PB-408 ed.III	GC/HRMS
2,3,7,8-TCDF [ng/kg]	< 0,05 [2)]	± 0,01	-	PB-408 ed.III	GC/HRMS
1,2,3,7,8-PeCDF [ng/kg]	< 0,05 [2)]	± 0,01	-	PB-408 ed.III	GC/HRMS
2,3,4,7,8-PeCDF [ng/kg]	< 0,05 [2)]	± 0,01	-	PB-408 ed.III	GC/HRMS
1,2,3,4,7,8-HxCDF [ng/kg]	< 0,05 [2)]	± 0,01	-	PB-408 ed.III	GC/HRMS
1,2,3,6,7,8-HxCDF [ng/kg]	< 0,05 [2)]	± 0,01	-	PB-408 ed.III	GC/HRMS
2,3,4,6,7,8-HxCDF [ng/kg]	< 0,05 [2)]	± 0,01	-	PB-408 ed.III	GC/HRMS
1,2,3,7,8,9-HxCDF [ng/kg]	< 0,05 [2)]	± 0,01	-	PB-408 ed.III	GC/HRMS
1,2,3,4,6,7,8-HpCDF [ng/kg]	< 0,05 [2)]	± 0,01	-	PB-408 ed.III	GC/HRMS
1,2,3,4,7,8,9-HpCDF [ng/kg]	< 0,05 [2)]	± 0,01	-	PB-408 ed.III	GC/HRMS
OCDF [ng/kg]	< 0,1 [2)]	± 0,02	-	PB-408 ed.III	GC/HRMS
WHO-PCDD/F-TEQ lower-bound [ng/kg]	0	-	-	PB-408 ed.III	GC/HRMS
WHO-PCDD/F-TEQ medium-bound [ng/kg]	0,07	± 0,011	-	PB-408 ed.III	GC/HRMS
WHO-PCDD/F-TEQ upper-bound [ng/kg]	0,139	± 0,0210	max 0,75	PB-408 ed.III	GC/HRMS
PCB-081 [ng/kg]	< 0,05 [2)]	± 0,01	-	PB-408 ed.III	GC/HRMS

SP LABORATORIJA AD BEČEJ, 21220 BEČEJ, Industrijska 3, Republika Srbija
tel: +381 21 6811-603; fax: +381 21 6912-545; www.splaboratorija.rs; e-mail: splaboratorija@splaboratorija.rs

Analysis	Result	Expanded measurement uncertainty [9)]	Reference data	Methods	
PCB-077 [ng/kg]	0,061	± 0,0120	-	PB-408 ed.III	GC/HRMS
PCB-126 [ng/kg]	< 0,05 [2)]	± 0,01	-	PB-408 ed.III	GC/HRMS
PCB-169 [ng/kg]	< 0,05 [2)]	± 0,01	-	PB-408 ed.III	GC/HRMS
PCB-123 [ng/kg]	< 10 [2)]	± 2	-	PB-408 ed.III	GC/HRMS
PCB-118 [ng/kg]	< 10 [2)]	± 2	-	PB-408 ed.III	GC/HRMS
PCB-114 [ng/kg]	< 10 [2)]	± 2	-	PB-408 ed.III	GC/HRMS
PCB-105 [ng/kg]	< 10 [2)]	± 2	-	PB-408 ed.III	GC/HRMS
PCB-167 [ng/kg]	< 10 [2)]	± 2	-	PB-408 ed.III	GC/HRMS
PCB-156 [ng/kg]	< 10 [2)]	± 2	-	PB-408 ed.III	GC/HRMS
PCB-157 [ng/kg]	< 10 [2)]	± 2	-	PB-408 ed.III	GC/HRMS
PCB-189 [ng/kg]	< 10 [2)]	± 2	-	PB-408 ed.III	GC/HRMS
WHO-dl-PCB-TEQ lower-bound [ng/kg]	0	-	-	PB-408 ed.III	GC/HRMS
WHO-dl-PCB-TEQ medium-bound [ng/kg]	0,004	± 0,0010	-	PB-408 ed.III	GC/HRMS
WHO-dl-PCB-TEQ upper-bound [ng/kg]	0,008	± 0,0010	-	PB-408 ed.III	GC/HRMS
WHO-PCDD/F-PCB-TEQ lower-bound [ng/kg]	0	-	-	PB-408 ed.III	GC/HRMS
WHO-PCDD/F-PCB-TEQ medium-bound [ng/kg]	0,073	± 0,0110	-	PB-408 ed.III	GC/HRMS
WHO-PCDD/F-PCB-TEQ upper-bound [ng/kg]	0,147	± 0,0220	max 1,5	PB-408 ed.III	GC/HRMS
PCB-028 [µg/kg]	< 0,1 [2)]	± 0,02	-	PB-408 ed.III	GC/HRMS
PCB-052 [µg/kg]	< 0,1 [2)]	± 0,02	-	PB-408 ed.III	GC/HRMS
PCB-101 [µg/kg]	< 0,1 [2)]	± 0,02	-	PB-408 ed.III	GC/HRMS
PCB-153 [µg/kg]	< 0,1 [2)]	± 0,02	-	PB-408 ed.III	GC/HRMS
PCB-138 [µg/kg]	< 0,1 [2)]	± 0,02	-	PB-408 ed.III	GC/HRMS
PCB-180 [µg/kg]	< 0,1 [2)]	± 0,02	-	PB-408 ed.III	GC/HRMS
Sum of ndl-PCB (ICES-6) lower-bound [µg/kg]	0	-	-	PB-408 ed.III	GC/HRMS
Sum of ndl-PCB (ICES-6) medium-bound [µg/kg]	0,26	± 0,040	-	PB-408 ed.III	GC/HRMS
Sum of ndl-PCB (ICES-6) upper-bound [µg/kg]	0,53	± 0,080	max 10	PB-408 ed.III	GC/HRMS

[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%

The test was performed within the scope of accreditation in the laboratory under accreditation number AB 079.

* The result is calculated with regard to animal feed with a moisture content of 12%.

Source of reference values: Directive 2002/32/EC of the Europen Parliament ond of the council of 7 May 2002 on undesirable substances in animal feed, as amanded and 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).

SP LABORATORIJA AD BEČEJ, 21220 BEČEJ, Industrijska 3, Republika Srbija
tel: +381 21 6811-603; fax: +381 21 6912-545; www.splaboratorija.rs; e-mail: splaboratorija@splaboratorija.rs

OBR 103 Izdanje 22 od 22.05.2023.

Analysis	Result	Expanded measurement uncertainty [9]	Reference data	Methods	
Lead (Pb) [mg/kg]	< 0,01 [2]	± 25%	max 0,1	SRPS EN 15763	ICP/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.

Note:

Source of reference values: 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, 127/2022, 110/2023).

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
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 (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 no. 91/2022 and 26/2024)

Analysis	Result	Expanded measurement uncertainty [9]	Reference data	Methods	
2,3,7,8-TCDD [pg/g fat]	< 0,05 [2]	± 0,01	-	PB-408 ed. III	GC/HRMS
1,2,3,7,8-PeCDD [pg/g fat]	< 0,05 [2]	± 0,01	-	PB-408 ed. III	GC/HRMS
1,2,3,4,7,8-HxCDD [pg/g fat]	< 0,05 [2]	± 0,01	-	PB-408 ed. III	GC/HRMS
1,2,3,6,7,8-HxCDD [pg/g fat]	< 0,05 [2]	± 0,01	-	PB-408 ed. III	GC/HRMS
1,2,3,7,8,9-HxCDD [pg/g fat]	< 0,05 [2]	± 0,01	-	PB-408 ed. III	GC/HRMS
1,2,3,4,6,7,8-HpCDD [pg/g fat]	< 0,05 [2]	± 0,01	-	PB-408 ed. III	GC/HRMS

SP LABORATORIJA AD BEČEJ, 21220 BEČEJ, Industrijska 3, Republika Srbija
tel: +381 21 6811-603; fax: +381 21 6912-545; www.splaboratorija.rs; e-mail: splaboratorija@splaboratorija.rs

Analysis	Result	Expanded measurement uncertainty 9)	Reference data	Methods	
OCDD [pg/g fat]	< 0,1 2)	± 0,02	-	PB-408 ed. III	GC/HRMS
2,3,7,8-TCDF [pg/g fat]	< 0,05 2)	± 0,01	-	PB-408 ed. III	GC/HRMS
1,2,3,7,8-PeCDF [pg/g fat]	< 0,05 2)	± 0,01	-	PB-408 ed. III	GC/HRMS
2,3,4,7,8-PeCDF [pg/g fat]	< 0,05 2)	± 0,01	-	PB-408 ed. III	GC/HRMS
1,2,3,4,7,8-HxCDF [pg/g fat]	< 0,05 2)	± 0,01	-	PB-408 ed. III	GC/HRMS
1,2,3,6,7,8-HxCDF [pg/g fat]	< 0,05 2)	± 0,01	-	PB-408 ed. III	GC/HRMS
2,3,4,6,7,8-HxCDF [pg/g fat]	< 0,05 2)	± 0,01	-	PB-408 ed. III	GC/HRMS
1,2,3,7,8,9-HxCDF [pg/g fat]	< 0,05 2)	± 0,01	-	PB-408 ed. III	GC/HRMS
1,2,3,4,6,7,8-HpCDF [pg/g fat]	< 0,05 2)	± 0,01	-	PB-408 ed. III	GC/HRMS
1,2,3,4,7,8,9-HpCDF [pg/g fat]	< 0,05 2)	± 0,01	-	PB-408 ed. III	GC/HRMS
OCDF [pg/g fat]	< 0,1 2)	± 0,02	-	PB-408 ed. III	GC/HRMS
WHO-PCDD/F-TEQ lower-bound [pg/g fat]	0	-	-	PB-408 ed. III	GC/HRMS
WHO-PCDD/F-TEQ medium-bound [pg/g fat]	0,079	± 0,0120	-	PB-408 ed. III	GC/HRMS
WHO-PCDD/F-TEQ upper-bound [pg/g fat]	0,158	± 0,0240	max 0,75	PB-408 ed. III	GC/HRMS
PCB-081 [pg/g fat]	< 0,05 2)	± 0,01	-	PB-408 ed. III	GC/HRMS
PCB-077 [pg/g fat]	0,061	± 0,0120	-	PB-408 ed. III	GC/HRMS
PCB-126 [pg/g fat]	< 0,05 2)	± 0,01	-	PB-408 ed. III	GC/HRMS
PCB-169 [pg/g fat]	< 0,05 2)	± 0,01	-	PB-408 ed. III	GC/HRMS
PCB-123 [pg/g fat]	< 10 2)	± 2	-	PB-408 ed. III	GC/HRMS
PCB-118 [pg/g fat]	< 10 2)	± 2	-	PB-408 ed. III	GC/HRMS
PCB-114 [pg/g fat]	< 10 2)	± 2	-	PB-408 ed. III	GC/HRMS
PCB-105 [pg/g fat]	< 10 2)	± 2	-	PB-408 ed. III	GC/HRMS
PCB-167 [pg/g fat]	< 10 2)	± 2	-	PB-408 ed. III	GC/HRMS
PCB-156 [pg/g fat]	< 10 2)	± 2	-	PB-408 ed. III	GC/HRMS
PCB-157 [pg/g fat]	< 10 2)	± 2	-	PB-408 ed. III	GC/HRMS
PCB-189 [pg/g fat]	< 10 2)	± 2	-	PB-408 ed. III	GC/HRMS
WHO-dl-PCB-TEQ lower-bound [pg/g fat]	0	-	-	PB-408 ed. III	GC/HRMS
WHO-dl-PCB-TEQ medium-bound [pg/g fat]	0,004	± 0,0010	-	PB-408 ed. III	GC/HRMS
WHO-dl-PCB-TEQ upper-bound [pg/g fat]	0,009	± 0,0010	-	PB-408 ed. III	GC/HRMS
WHO-PCDD/F-PCB-TEQ lower-bound [pg/g fat]	0	-	-	PB-408 ed. III	GC/HRMS
WHO-PCDD/F-PCB-TEQ medium-bound [pg/g fat]	0,083	± 0,0120	-	PB-408 ed. III	GC/HRMS
WHO-PCDD/F-PCB-TEQ upper-bound [pg/g fat]	0,167	± 0,0250	max 1,25	PB-408 ed. III	GC/HRMS
PCB-028 [ng/g fat]	< 0,1 2)	± 0,02	-	PB-408 ed. III	GC/HRMS
PCB-052 [ng/g fat]	< 0,1 2)	± 0,02	-	PB-408 ed. III	GC/HRMS
PCB-101 [ng/g fat]	< 0,1 2)	± 0,02	-	PB-408 ed. III	GC/HRMS
PCB-153 [ng/g fat]	< 0,1 2)	± 0,02	-	PB-408 ed. III	GC/HRMS
PCB-138 [ng/g fat]	< 0,1 2)	± 0,02	-	PB-408 ed. III	GC/HRMS
PCB-180 [ng/g fat]	< 0,1 2)	± 0,02	-	PB-408 ed. III	GC/HRMS

SP LABORATORIJA AD BEČEJ, 21220 BEČEJ, Industrijska 3, Republika Srbija
tel: +381 21 6811-603; fax: +381 21 6912-545; www.splaboratorija.rs; e-mail: splaboratorija@splaboratorija.rs

Analysis	Result	Expanded measurement uncertainty [9)]	Reference data	Methods	
Sum of ndl-PCB (ICES-6) lower-bound [ng/g fat]	0	-	-	PB-408 ed. III	GC/HRMS
Sum of ndl-PCB (ICES-6) medium-bound [ng/g fat]	0,3	± 0,05	-	PB-408 ed. III	GC/HRMS
Sum of ndl-PCB (ICES-6) upper-bound [ng/g fat]	0,6	± 0,09	max 40	PB-408 ed. III	GC/HRMS

[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%

The test was performed within the scope of accreditation in the laboratory under accreditation number AB 079.

Source of reference values: Commission Regulation (EU) No 2023/915 of 25 April 2023 on maximum levels for certain contaminants in food and repealing Regulation (EC) No 1881/2006 and 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, 127/2022, 110/2023).

Results of physical-chemical testing

Analysis	Result	Expanded measurement uncertainty [9)]	Methods	
Water content and volatile matter [%]	0,08	± 0,031	SRPS EN ISO 662:2017	Drying
Oil [%]	99,8	± 6,49	SRPS ISO 6492:2001	Soxhlet with previous kh
Insoluble impurities content [%]	0,08	± 0,065	SRPS EN ISO 663:2017	Dissoluting, Gravimetry
Content of sediment [%]	2,4	-	SRPS EN ISO 19219:2018 [1)]	Sedimentation
Acidity value [mg KOH/g]	1,43	± 0,122	SRPS EN ISO 660:2021	Volumetry
Peroxid number [mmol/kg]	0	-	SRPS EN ISO 3960:2017	Volumetry
Phosphorus [mg/kg]	262	± 26	AOCS Ca 12-55:2017	Spectrophotometry
Content of phosphatides [%]	0,786	± 0,0770	AOCS Ca 12-55:2017	Spectrophotometry
Free fatty acid (as oleic) [%]	0,72	± 0,061	SRPS EN ISO 660:2021	Volumetry

[1)]Outside the scope of accreditation; [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%

Testing of genetic modification:

Analysis	Result	LOD [%]	Methods	
Detection of the genetic element-CaMV P-35S	Not detected	0,05	JRC GMO Protocol 159)	Real Time PCR
Detection of the genetic element-T-nos	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.

SP LABORATORIJA AD BEČEJ, 21220 BEČEJ, Industrijska 3, Republika Srbija
tel: +381 21 6811-603; fax: +381 21 6912-545; www.splaboratorija.rs; e-mail: splaboratorija@splaboratorija.rs

OBR 103 Izdanje 22 od 22.05.2023.

Analysis	Result	Expanded measurement uncertainty [9]	Methods	
Caproic acid (C6:0) [g/100g]	< 0,02 [2]	± 20%	SRPS EN ISO 12966-1:2015	GC/FID
Caprylic acid (C8:0) [g/100g]	< 0,02 [2]	± 20%	SRPS EN ISO 12966-1:2015	GC/FID
Capric acid (C10:0) [g/100g]	< 0,02 [2]	± 20%	SRPS EN ISO 12966-1:2015	GC/FID
Undecanoic acid (C11:0) [g/100g]	< 0,02 [2]	± 20%	SRPS EN ISO 12966-1:2015	GC/FID
Lauric acid (C12:0) [g/100g]	< 0,02 [2]	± 20%	SRPS EN ISO 12966-1:2015	GC/FID
Tridecanoic acid (C13:0) [g/100g]	< 0,02 [2]	± 20%	SRPS EN ISO 12966-1:2015	GC/FID
Myristic acid (C14:0) [g/100g]	0,04	± 0,008	SRPS EN ISO 12966-1:2015	GC/FID
Myristoleic acid (C14:1) [g/100g]	< 0,02 [2]	± 20%	SRPS EN ISO 12966-1:2015	GC/FID
Pentadecanoic acid (C15:0) [g/100g]	< 0,02 [2]	± 20%	SRPS EN ISO 12966-1:2015	GC/FID
Pentadecenoic acid (C15:1) [g/100g]	< 0,02 [2]	± 20%	SRPS EN ISO 12966-1:2015	GC/FID
Palmitic acid (C16:0) [g/100g]	3,92	± 0,784	SRPS EN ISO 12966-1:2015	GC/FID
Palmitoleic acid (C16:1) [g/100g]	0,11	± 0,022	SRPS EN ISO 12966-1:2015	GC/FID
Heptadecanoic acid (C17:0) [g/100g]	0,03	± 0,006	SRPS EN ISO 12966-1:2015	GC/FID
Heptadecanoic acid (C17:1) [g/100g]	0,04	± 0,008	SRPS EN ISO 12966-1:2015	GC/FID
Stearic acid (C18:0) [g/100g]	2,93	± 0,586	SRPS EN ISO 12966-1:2015	GC/FID
Oleic acid (C18:1) and its isomers [g/100g]	84,54	± 16,908	SRPS EN ISO 12966-1:2015	GC/FID
Linoleic acid (C18:2) and its isomers [g/100g]	6,56	± 1,312	SRPS EN ISO 12966-1:2015	GC/FID
Linolenic acid (C18:3) and its isomers [g/100g]	0,06	± 0,012	SRPS EN ISO 12966-1:2015	GC/FID
Arachidic acid (C20:0) [g/100g]	0,25	± 0,050	SRPS EN ISO 12966-1:2015	GC/FID
Gondoic acid (C20:1) [g/100g]	0,23	± 0,046	SRPS EN ISO 12966-1:2015	GC/FID
Eicosadienoic acid (C20:2) [g/100g]	< 0,02 [2]	± 20%	SRPS EN ISO 12966-1:2015	GC/FID
Eicosatrienoic acid (C20:3) and its isomers [g/100g]	< 0,02 [2]	± 20%	SRPS EN ISO 12966-1:2015	GC/FID
Arachidonic acid (C20:4) [g/100g]	< 0,02 [2]	± 20%	SRPS EN ISO 12966-1:2015	GC/FID
Eicosapentaenoic acid (C20:5) [g/100g]	< 0,02 [2]	± 20%	SRPS EN ISO 12966-1:2015	GC/FID
Heneicosanoic acid (C21:0) [g/100g]	< 0,02 [2]	± 20%	SRPS EN ISO 12966-1:2015	GC/FID
Behenic acid (C22:0) [g/100g]	0,94	± 0,188	SRPS EN ISO 12966-1:2015	GC/FID
Erucic acid (C22:1) [g/100g]	< 0,02 [2]	± 20%	SRPS EN ISO 12966-1:2015	GC/FID
Docosadienoic acid (C22:2) [g/100g]	< 0,02 [2]	± 20%	SRPS EN ISO 12966-1:2015	GC/FID
Docosahexaenoic acid (C22:6) [g/100g]	< 0,02 [2]	± 20%	SRPS EN ISO 12966-1:2015	GC/FID
Tricosanoic acid (C23:0) [g/100g]	0,03	± 0,006	SRPS EN ISO 12966-1:2015	GC/FID
Lignoceric acid (C24:0) [g/100g]	0,32	± 0,064	SRPS EN ISO 12966-1:2015	GC/FID
Nervonic acid (C24:1) [g/100g]	< 0,02 [2]	± 20%	SRPS EN ISO 12966-1:2015	GC/FID
Saturated fatty acids (C6:0, C8:0, C10:0, C11:0, C12:0, C13:0, C14:0, C15:0, C16:0, C17:0, C18:0, C20:0, C21:0, C22:0, C23:0, C24:0) [g/100g]	8,46	± 1,692	SRPS EN ISO 12966-1:2015	GC/FID
Content of unsaturated fatty acids (C14:1, C15:1, C16:1, C17:1, C18:1n9c, C22:1n9, C20:1, C24:1, C20:2, C22:2, C18:3n3, C20:3n3, C20:5n3, C22:6n3, C18:2n6c, C18:3n6, C20:3n6, C20:4n6) [g/100g]	91,54	± 18,308	SRPS EN ISO 12966-1:2015	GC/FID

[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%

SP LABORATORIJA AD BEČEJ, 21220 BEČEJ, Industrijska 3, Republika Srbija
tel: +381 21 6811-603; fax: +381 21 6912-545; www.splaboratorija.rs; e-mail: splaboratorija@splaboratorija.rs

REPUBLIKA SRBIJA
SP LABORATORIJA AD BEČEJ
MEMBER OF HAMILTON GROUP
Industrijska 3, 21220 Bečej

QS. Quality scheme for food.
www.q-s.de
Approved for residue monitoring fruit, vegetables, potatoes

Gafta APPROVED ANALYST
Member of FOSFA INTERNATIONAL

ATC 01-018
ЛАБОРАТОРИЈА ЗА ИСПИТИВАЊЕ ISO/IEC 17025

ilac-MRA

SP Laboratorija is GMP+ B11 registered laboratory under number GMP049738

Analysis	Result	Expanded measurement uncertainty [9]	Methods	
Allergen -milk [mg/kg]	< 2,5 [2]	± 31%	Veratox for Tot.Milk Allergen(8470) [171] [1]	Elisa, photometric
Allergen -peanut [mg/kg]	< 2,5 [2]	± 28%	Veratox for Peanut Allergen (8430) [168] [1]	Elisa, photometric
Allergen -HAZELNUT [mg/kg]	< 2,5 [2]	± 25%	Veratox for Hazelnut Allergen(8420) [169] [1]	Elisa, photometric
Allergen -soy [mg/kg]	< 2,5 [2]	± 30%	Veratox for Soy Allergen (8410) [170] [1]	Elisa, photometric
Allergen -egg [mg/kg]	< 2,5 [2]	± 24%	Veratox for Egg Allergen (8450) [172] [1]	Elisa, photometric
Allergen - mustard [mg/kg]	< 0,5 [2]	± 30%	Ridascreen Fast Mustard/Mustard R6152 [173]	Elisa, photometric
Gluten [mg/kg]	< 5 [2]	± 36%	Ridascreen Gliadin R7001 [167]	Elisa, photometric

[1]Outside the scope of accreditation; [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%

Note:

Analysis of allergen milk detects casein and whey protein from cow, goat and sheep milk, and result is expressed as mg/ kg fat free dry milk solids In the sample.

Analysis allergen peanut detects protein peanut, and the result is expressed as mg/kg of total peanut present in the sample.

Allergen analysis HAZELNUT detects hazelnut protein, and the Result is expressed as mg/kg of total hazelnut In the sample.

Allergen analysis of soy detects soy protein, and the result is expressed as mg/kg of soy flour in the sample.

Allergen analysis - egg detects processed and unprocessed egg white proteins, and the result is expressed as mg/kg dried matter of egg In the sample.

Allergen analysis mustard detects protein mustard, and the result is expressed as mg/kg mustard In the sample.

In accordance with point A - general requirements of the Annex Commission Implementing Regulation (EU) No 828/2014, the statement "gluten-free" is allowed only if the gluten in the food as a finished product is less than 20 mg/kg.

[159]JRC Compendium of reference methods for GMO analysis; [167]R-Biopharm AG, AOAC Research Institute-Certificate of Peformance Tested Status, No. 120601; [168]Neogen, AOAC Research Institute-Certificate of Peformance Tested Status, No. 030403; [169]Neogen, Instructions for quantitative test Veratox for Hazelnut Allergen, product No.8420; [170]Neogen, Instructions for quantitative test Veratox for Soy Allergen, product No.8410; [171]Neogen, Instructions for quantitative test Veratox for Total Milk Allergen, product No.8470; [172]Neogen, Instructions for quantitative test Veratox for Egg Allergen, product No.8450; [173]R-Biopharm AG, Enzyme immunoassay for the quantitative analysis of mustard, No.R6152

Results approved by:

Biljana Marošanović MS Spec. in Tox.Chemistry. Director of Instrumental Analysis Dpt	
dipl. Ing. Gordana Nović Director of Genetic and Physical-Chemical Analysis Dpt.	

Report approved by:

Predrag Vulićević MS, Specialist in Sanitary Chemistry	

Statement:

1. This report shall not be multiplied, except in full, without 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 LABORATORIJA 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 customers.
5. SP LABORATORIJA disclaims responsibility for the validity of the results for whose statements the data obtained from the customers have been used.
6. Test location in SP LABORATORIJA: Industrijska 3, 21220 Bečej
7. According to art.25 Law on business company („Official Gazette of RS“ no 36/2011, 99/2011, 83/2014-other law, 5/2015, 44/2018, 95/2018, 91/2019 and 109/2021) test report is valid without stamp.
8. This test report replaces the previous one with a number R24-6823.I1. Modification done because of additional customer request-tumačenje rezultata on the sample R24031757.I1.

SP LABORATORIJA AD BEČEJ, 21220 BEČEJ, Industrijska 3, Republika Srbija
tel: +381 21 6811-603; fax: +381 21 6912-545; www.splaboratorija.rs; e-mail: splaboratorija@splaboratorija.rs

OBR 103 Izdanje 22 od 22.05.2023.