CERTIFICATE OF ANALYSIS

Work Order	: **FP2327046**	Issue Date	: 12-Oct-2023
Customer	: **QSL s.r.o.**	Laboratory	: ALS Czech Republic, s.r.o.
Contact	: Zuzana Němcová	Contact	: F&P Client Service
Address	: Plaská 622/3 150 00 Praha 5 - Malá Strana	Address	: Na Harfe 336/9 Prague 9 - Vysocany 190 00 Czech Republic
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Telephone	: ----	Telephone	: +420 226 226 998
Project	: NoordCode	Page	: 1 of 6
Order number	: ----	Date Samples Received	: 26-Sep-2023
		Quote number	: PR2019QSLSR-CZ0001 (CZ-114-20-5085_V3)
Site	: ----	Date of test	: 26-Sep-2023 - 12-Oct-2023
Sampled by	: zákazník	QC Level	: ALS CR Standard Quality Control Schedule

General Comments

This report shall not be reproduced except in full, without prior written approval from the laboratory. The laboratory is not responsible for information provided by the customer.
The laboratory declares that the test results relate only to the listed samples. If "ALS" is not included in the test report in the "Sampled by" section, then the results refer to the sample as received.
B-PESMRS02 (FP2327046003) –The Method is not accredited for this type of matrix.
Sample FP2327046/001, method B-TABLCF02 - the result is non-accredited, the sample matrix is outside the scope of accreditation.
Sample(s) FP2327046/001 : The benzo(a)pyrene concentrations in the sample(s) are below the maximum levels defined for oils and fats intended for direct human consumption or use as an ingredient in foods (Commission Regulation (EU) 2023/915). Maximum level for benzo(a)pyrene is 2.0 µg/kg.
Sample(s) FP2327046/002 : The benzo(a)pyrene concentrations and sum of 4 PAHs in the sample(s) are below the maximum levels defined for food supplements containing botanicals, propolis, royal jelly, spirulina or their preparations; dried herbs and dried spices with the exception of cardamon and smoked Capsicum spp. (Commission Regulation (EU) 2023/915). Maximum level for benzo(a)pyrene is 10 µg/kg; for sum of 4 PAHs (benzo(a)pyrene, benz(a)anthracene, benzo(b)fluoranthene and chrysene) is 50 µg/kg.
Sample(s) FP2327046/003 : The benzo(a)pyrene concentrations and sum of 4 PAHs in the sample(s) are below the maximum levels defined for food supplements containing botanicals, propolis, royal jelly, spirulina or their preparations; dried herbs and dried spices with the exception of cardamon and smoked Capsicum spp. (Commission Regulation (EU) 2023/915). Maximum level for benzo(a)pyrene is 10 µg/kg; for sum of 4 PAHs (benzo(a)pyrene, benz(a)anthracene, benzo(b)fluoranthene and chrysene) is 50 µg/kg.
Sample(s) FP2327046/004 : The benzo(a)pyrene concentrations and sum of 4 PAHs in the sample(s) are below the maximum levels defined for food supplements containing botanicals, propolis, royal jelly, spirulina or their preparations; dried herbs and dried spices with the exception of cardamon and smoked Capsicum spp. (Commission Regulation (EU) 2023/915). Maximum level for benzo(a)pyrene is 10 µg/kg; for sum of 4 PAHs (benzo(a)pyrene, benz(a)anthracene, benzo(b)fluoranthene and chrysene) is 50 µg/kg.
UK MRL of pesticides are based on Regulation (EC) No. 396/2005.
Pesticide screening: Accreditation status of parameters depends on tested matrix type.
Attachment/s number 23 271 016E is/are an integral part of the certificate of analysis.
Attachment/s number 23 277 022E is/are an integral part of the certificate of analysis.
Attachment/s number 23 277 023E is/are an integral part of the certificate of analysis.

Responsible for accuracy

Signatories	*Position*
Kateřina Hubáčková	Site Manager Food

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Work Order	:	FP2327046
Customer	:	QSL s.r.o.

Analytical Results

Sub-Matrix: **DIETARY SUPPLEMENT**

			Client sample ID	**NC Pure plant protein: 93011-02**		**----**		**----**	
			Laboratory sample ID	*FP2327046003*		----		----	
			Client sampling date / time	25-Sep-2023		----		----	
Parameter	*Method*	*LOR*	*Unit*	**Result**	**MU**	**Result**	**MU**	**Result**	**MU**
Allergens									
Gluten	B-AGTELI01	5	mg/kg	<5	----	**----**	----	**----**	----
Microbiological Parameters									
Coagulase pozitive staphylococci	B-COAG1	10	CFU/g	<10	----	**----**	----	**----**	----
Coliform Bacteria	B-COLIF1	10	CFU/g	<10	----	**----**	----	**----**	----
Escherichia coli	B-EC1	10	CFU/g	<10	----	**----**	----	**----**	----
Moulds	B-YEMOU1	10	CFU/g	<10	----	**----**	----	**----**	----
Salmonella spp.	B-SALMELI1	-	--	**negative**	----	**----**	----	**----**	----
Listeria monocytogenes	B-LISTDELI1	-	--	**negative**	----	**----**	----	**----**	----
Total Metals / Major Cations									
Lead	B-METMSDGL	0.010	mg/kg	**0.026**	± 20.0%	**----**	----	**----**	----
Mercury	B-HG-AMAT	0.0030	mg/kg	**0.0112**	± 20.0%	**----**	----	**----**	----
Cadmium	B-METMSDGL	0.0050	mg/kg	**0.0526**	± 20.0%	**----**	----	**----**	----
Polycyclic Aromatics Hydrocarbons (PAHs)									
Naphthalene	B-PAHHMS02	-	µg/kg	<20	----	**----**	----	**----**	----
Acenaphthylene	B-PAHHMS02	-	µg/kg	<2	----	**----**	----	**----**	----
Acenaphthene	B-PAHHMS02	-	µg/kg	<1.6	----	**----**	----	**----**	----
Fluorene	B-PAHHMS02	-	µg/kg	<2.5	----	**----**	----	**----**	----
Phenanthrene	B-PAHHMS02	-	µg/kg	<6.9	----	**----**	----	**----**	----
Anthracene	B-PAHHMS02	-	µg/kg	<1.5	----	**----**	----	**----**	----
Fluoranthene	B-PAHHMS02	-	µg/kg	<2.5	----	**----**	----	**----**	----
Pyrene	B-PAHHMS02	-	µg/kg	<2.2	----	**----**	----	**----**	----
Benz(a)anthracene	B-PAHHMS02	-	µg/kg	<0.9	----	**----**	----	**----**	----
Chrysene	B-PAHHMS02	-	µg/kg	<0.9	----	**----**	----	**----**	----
Benzo(b)fluoranthene	B-PAHHMS02	-	µg/kg	<0.9	----	**----**	----	**----**	----
Benzo(k)fluoranthene	B-PAHHMS02	-	µg/kg	<0.9	----	**----**	----	**----**	----
Benzo(a)pyrene	B-PAHHMS02	-	µg/kg	<0.9	----	**----**	----	**----**	----
Indeno(1.2.3.cd)pyrene	B-PAHHMS02	-	µg/kg	<0.9	----	**----**	----	**----**	----
Dibenzo(a,h)anthracene	B-PAHHMS02	-	µg/kg	<0.9	----	**----**	----	**----**	----
Benzo(g.h.i)perylene	B-PAHHMS02	-	µg/kg	<0.9	----	**----**	----	**----**	----
Sum of PAH 16 - Lowerbound	B-PAHHMS02	-	µg/kg	**0**	----	**----**	----	**----**	----
Sum of PAH 16 - Upperbound	B-PAHHMS02	-	µg/kg	**46**	----	**----**	----	**----**	----
Pesticides									
Screening of Pesticides	B-PESMRS-02	-	-	**in the attachment - 23 277 022E**	----	**----**	----	**----**	----

Sub-Matrix: **FAT|OILS**

			Client sample ID	**NC Ghee - batch number 15052024**		**----**		**----**	
			Laboratory sample ID	*FP2327046001*		----		----	
			Client sampling date / time	25-Sep-2023		----		----	
Parameter	*Method*	*LOR*	*Unit*	**Result**	**MU**	**Result**	**MU**	**Result**	**MU**
Total Metals / Major Cations									
Cadmium	B-METMSDT1	0.040	mg/kg	<0.040	----	**----**	----	**----**	----
Lead	B-METMSDT1	0.050	mg/kg	<0.050	----	**----**	----	**----**	----
Mercury	B-HG-AMADT	0.030	mg/kg	<0.030	----	**----**	----	**----**	----
Polycyclic Aromatics Hydrocarbons (PAHs)									
Benzo(a)pyrene	B-PAHHMS02	-	µg/kg	<0.9	----	**----**	----	**----**	----
Mycotoxins									
Aflatoxin B1	B-TABLCF02	0.30	µg/kg	<0.30	----	**----**	----	**----**	----
Aflatoxin B2	B-TABLCF02	0.30	µg/kg	<0.30	----	**----**	----	**----**	----
Aflatoxin G1	B-TABLCF02	0.30	µg/kg	<0.30	----	**----**	----	**----**	----
Aflatoxin G2	B-TABLCF02	0.30	µg/kg	<0.30	----	**----**	----	**----**	----

Sub-Matrix: **FAT|OILS**				*Client sample ID*	**NC Ghee - batch number 15052024**		**----**		**----**	
				Laboratory sample ID	*FP2327046001*		----		----	
				Client sampling date / time	25-Sep-2023		----		----	
Parameter	*Method*	*LOR*	*Unit*		**Result**	**MU**	**Result**	**MU**	**Result**	**MU**
Mycotoxins - Continued										
Sum of Aflatoxins	B-TABLCF02	1.2	µg/kg		<1.2	----	**----**	----	**----**	----

Sub-Matrix: **RAW MATERIAL**				*Client sample ID*	**NC Power Cacao: 23045-01**		**----**		**----**	
				Laboratory sample ID	*FP2327046004*		----		----	
				Client sampling date / time	25-Sep-2023		----		----	
Parameter	*Method*	*LOR*	*Unit*		**Result**	**MU**	**Result**	**MU**	**Result**	**MU**
Allergens										
Gluten	B-AGTELI01	5	mg/kg		<5	----	**----**	----	**----**	----
Polycyclic Aromatics Hydrocarbons (PAHs)										
Naphthalene	B-PAHHMS02	-	µg/kg		<14	----	**----**	----	**----**	----
Acenaphthylene	B-PAHHMS02	-	µg/kg		<0.96	----	**----**	----	**----**	----
Acenaphthene	B-PAHHMS02	-	µg/kg		**4.40**	± 30.0%	**----**	----	**----**	----
Fluorene	B-PAHHMS02	-	µg/kg		**4.10**	± 30.0%	**----**	----	**----**	----
Phenanthrene	B-PAHHMS02	-	µg/kg		**10.0**	± 30.0%	**----**	----	**----**	----
Anthracene	B-PAHHMS02	-	µg/kg		<1.2	----	**----**	----	**----**	----
Fluoranthene	B-PAHHMS02	-	µg/kg		**2.40**	± 30.0%	**----**	----	**----**	----
Pyrene	B-PAHHMS02	-	µg/kg		**2.30**	± 30.0%	**----**	----	**----**	----
Benz(a)anthracene	B-PAHHMS02	-	µg/kg		<0.48	----	**----**	----	**----**	----
Chrysene	B-PAHHMS02	-	µg/kg		<0.48	----	**----**	----	**----**	----
Benzo(b)fluoranthene	B-PAHHMS02	-	µg/kg		<0.48	----	**----**	----	**----**	----
Benzo(k)fluoranthene	B-PAHHMS02	-	µg/kg		<0.48	----	**----**	----	**----**	----
Benzo(a)pyrene	B-PAHHMS02	-	µg/kg		<0.48	----	**----**	----	**----**	----
Indeno(1.2.3.cd)pyrene	B-PAHHMS02	-	µg/kg		<0.36	----	**----**	----	**----**	----
Dibenzo(a,h)anthracene	B-PAHHMS02	-	µg/kg		<0.075	----	**----**	----	**----**	----
Benzo(g.h.i)perylene	B-PAHHMS02	-	µg/kg		<0.48	----	**----**	----	**----**	----
Sum of PAH 16 - Lowerbound	B-PAHHMS02	-	µg/kg		**23**	----	**----**	----	**----**	----
Sum of PAH 16 - Upperbound	B-PAHHMS02	-	µg/kg		**43**	----	**----**	----	**----**	----
Pesticides										
Screening of Pesticides	B-PESMRS-02	-	-		**in the attachment - 23 277 023E**	----	**----**	----	**----**	----
Mycotoxins										
Aflatoxin B1	B-TABLCF02	0.30	µg/kg		<0.30	----	**----**	----	**----**	----
Aflatoxin B2	B-TABLCF02	0.30	µg/kg		<0.30	----	**----**	----	**----**	----
Aflatoxin G1	B-TABLCF02	0.30	µg/kg		<0.30	----	**----**	----	**----**	----
Aflatoxin G2	B-TABLCF02	0.30	µg/kg		<0.30	----	**----**	----	**----**	----
Sum of Aflatoxins	B-TABLCF02	1.2	µg/kg		<1.2	----	**----**	----	**----**	----
Ochratoxin A	B-MYCOTOXINS2	1	µg/kg		<1	----	**----**	----	**----**	----

Sub-Matrix: **SAUCE|ADDITIVES**				*Client sample ID*	**NC Pure coffee medium roast: 162023**		**----**		**----**	
				Laboratory sample ID	*FP2327046002*		----		----	
				Client sampling date / time	25-Sep-2023		----		----	
Parameter	*Method*	*LOR*	*Unit*		**Result**	**MU**	**Result**	**MU**	**Result**	**MU**
Microbiological Parameters										
Escherichia coli	B-EC1	10	CFU/g		<10	----	**----**	----	**----**	----
Salmonella spp.	B-SALMELI1	-	--		**negative**	----	**----**	----	**----**	----
Listeria monocytogenes	B-LISTDELI1	-	--		**negative**	----	**----**	----	**----**	----
Polycyclic Aromatics Hydrocarbons (PAHs)										
Naphthalene	B-PAHHMS02	-	µg/kg		<31	----	**----**	----	**----**	----
Acenaphthylene	B-PAHHMS02	-	µg/kg		<2	----	**----**	----	**----**	----
Acenaphthene	B-PAHHMS02	-	µg/kg		<1.2	----	**----**	----	**----**	----

Sub-Matrix: **SAUCE|ADDITIVES**				*Client sample ID*	**NC Pure coffee medium roast: 162023**		**----**		**----**	
				Laboratory sample ID	*FP2327046002*		----		----	
				Client sampling date / time	25-Sep-2023		----		----	
Parameter	*Method*	*LOR*	*Unit*	**Result**	**MU**	**Result**	**MU**	**Result**	**MU**
Polycyclic Aromatics Hydrocarbons (PAHs) - Continued									
Fluorene	B-PAHHMS02	-	µg/kg	<2.5	----	**----**	----	**----**	----
Phenanthrene	B-PAHHMS02	-	µg/kg	**22.0**	± 30.0%	**----**	----	**----**	----
Anthracene	B-PAHHMS02	-	µg/kg	**2.40**	± 30.0%	**----**	----	**----**	----
Fluoranthene	B-PAHHMS02	-	µg/kg	**4.10**	± 30.0%	**----**	----	**----**	----
Pyrene	B-PAHHMS02	-	µg/kg	**3.50**	± 30.0%	**----**	----	**----**	----
Benz(a)anthracene	B-PAHHMS02	-	µg/kg	<0.9	----	**----**	----	**----**	----
Chrysene	B-PAHHMS02	-	µg/kg	<0.9	----	**----**	----	**----**	----
Benzo(b)fluoranthene	B-PAHHMS02	-	µg/kg	<0.9	----	**----**	----	**----**	----
Benzo(k)fluoranthene	B-PAHHMS02	-	µg/kg	<0.9	----	**----**	----	**----**	----
Benzo(a)pyrene	B-PAHHMS02	-	µg/kg	<0.9	----	**----**	----	**----**	----
Indeno(1.2.3.cd)pyrene	B-PAHHMS02	-	µg/kg	<0.9	----	**----**	----	**----**	----
Dibenzo(a,h)anthracene	B-PAHHMS02	-	µg/kg	<0.9	----	**----**	----	**----**	----
Benzo(g.h.i)perylene	B-PAHHMS02	-	µg/kg	<0.9	----	**----**	----	**----**	----
Sum of PAH 16 - Lowerbound	B-PAHHMS02	-	µg/kg	**32**	----	**----**	----	**----**	----
Sum of PAH 16 - Upperbound	B-PAHHMS02	-	µg/kg	**76**	----	**----**	----	**----**	----
Pesticides									
Screening of Pesticides	B-PESMRS-02	-	-	**in the attachment - 23 271 016E**	----	**----**	----	**----**	----
Mycotoxins									
Ochratoxin A	B-MYCOTOXINS2	1	µg/kg	<1	----	**----**	----	**----**	----

When sampling time information is not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes. Measurement uncertainty is expressed as expanded measurement uncertainty with coverage factor k = 2, representing 95% confidence level.
Key: LOR = Limit of reporting; MU = Measurement Uncertainty. The MU does not include sampling uncertainty.

Brief Method Summaries

Analytical Methods	*Method Descriptions*
Location of test performance: Na Harfe 336/9 Prague 9 - Vysocany Czech Republic 190 00	
B-AGTELI01	CZ_SOP_D06_09_221.A (manual R-Biopharm - Ridascreen Gliadin) Determination of gliadin (gluten) by sandwich enzyme immunoassay with ELISA method - commercial set.
B-COAG1	CSN EN ISO 6888-1. Enumeration of coagulase-positive staphylococci (Staphylococcus aureus and other species) by cultivation.
B-COLIF1	CSN ISO 4832. Enumeration of coliform bacteria by cultivation.
B-EC1	CSN ISO 16649-2. Enumeration of beta-glucuronidase-positive Escherichia coli by cultivation.
B-HG-AMADT	CZ_SOP_D06_09_024 (ČSN 46 5735, ČSN 75 7440, ČL, PhEur, USP) Determination of Hg by atomic absorption spectrometry. Sample was homogenized and mineralized by acids and hydrogen peroxide prior to analysis.
B-HG-AMAT	CZ_SOP_D06_09_024 (ČSN 46 5735, ČSN 75 7440, ČL, PhEur, USP, samples prepared as per CZ_SOP_D06_04_P01 chap. 10.1) Determination of Hg by atomic absorption spectrometry.
B-LISTDELI1	CZ_SOP_D06_09_326 (manual Solus). Detection of Listeria by ELISA method - commercial set Solus Listeria.
B-METMSDGL	CZ_SOP_D06_09_002 (US EPA 200.8, ČSN EN ISO 17294-2, ČSN EN 15111) Determination of elements by mass spectrometry with inductively coupled plasma and stoichiometric calculations of compounds concentration from measured values. Sample was homogenized and mineralized by acids and hydrogen peroxide prior to analysis.
B-METMSDT1	CZ_SOP_D06_09_002 (US EPA 200.8, ČSN EN ISO 17294-2, ČSN EN 15111) Determination of elements by mass spectrometry with inductively coupled plasma and stoichiometric calculations of compounds concentration from measured values. Sample was homogenized and mineralized by acids and hydrogen peroxide prior to analysis.
B-MYCOTOXINS2	Determination of mycotoxins (Ochratoxin, Zearalenone, Deoxynivalenol) by LC/MS-MS (MP.2360:R1.2023) [Subcontracted]
B-PESMRS-02	GC-MS + LC-MS/MS pesticide multi-residue screen (cereals, oils, oily samples, dried herbs, tea, meat, fish etc.)
B-SALMELI1	CZ_SOP_D06_09_309 (manual Solus). Detection of Salmonella by ELISA method - commercial set Solus Salmonella. Enrichmant and confirmation of the sample according to CSN EN ISO 6579-1.
B-TABLCF02	CZ_SOP_D06_09_212 (CSN EN 14123) Determination of aflatoxins B1, B2, G1, G2 by liquid chromatography method with FLD detection.

Analytical Methods	*Method Descriptions*
B-YEMOU1	CSN ISO 21527-1; CSN ISO 21527-2 . Enumeration of yeasts and moulds by cultivation.
Location of test performance: V Raji 906 Pardubice - Zelene Predmesti Czech Republic 530 02	
B-PAHHMS02	CZ_SOP_D06_06_180 (US EPA Method 429, STN EN 16619): Determination of polycyclic aromatic hydrocarbons by isotope dilution method using HRGC-HRMS and calculation of polyaromatic hydrocarbons sums from measured values. The samples were stored in laboratory in the darkness and under temperature <4°C. Actual LOQ are noticed in the attachment. Estimation of measurement uncertainty (95% confidential interval) for each individual PAH is 30%, for sum of PAH4 is 20%.

The symbol "*" for the method indicates a test outside the scope of accreditation of the laboratory or subcontractor. If the UNICO-SUB code is stated in the method table, this only informs that the tests have been performed by a subcontractor and the results are given in an annex to the test report, including information on test accreditation. If the lab used for matrix outside the scope of accreditation or non-standard sample matrix procedure specified in the accredited method and issues non-accredited results, this fact is stated on the title page of this protocol in the section "Notes". If the test report shows the results of subcontracting, the place of performance of the test is outside the laboratories of ALS Czech Republic, s.r.o.
The method for calculating of the summation parameters is available on request in the customer service.

The end of the certificate of analysis