



Analytical Results

Sub-Matrix: FOOD		Client sample ID			22/1017 B:100942 509100				
		Laboratory sample ID			NO2202603001				
		Client sampling date / time			2022-02-11 00:00				
Parameter	Result	MU	Unit	LOR	Date analysed	Method	Perf. Lab	Acc. Key	
Contaminants									
Sulphur dioxide	<10	---	mg/kg	10	2022-02-21	B-SO2-UK (SULPHURDIOXIDE)	UC	a ulev	
PCDDs and PCDFs (Dioxins and Furans)									
2378-TCDD	<0.0085	---	pg/g	-	2022-02-16	B-DFHMS02	PA	a ulev	
12378-PeCDD	<0.013	---	pg/g	-	2022-02-16	B-DFHMS02	PA	a ulev	
123478-HxCDD	<0.033	---	pg/g	-	2022-02-16	B-DFHMS02	PA	a ulev	
123678-HxCDD	<0.028	---	pg/g	-	2022-02-16	B-DFHMS02	PA	a ulev	
123789-HxCDD	<0.028	---	pg/g	-	2022-02-16	B-DFHMS02	PA	a ulev	
1234678-HpCDD	<0.29	---	pg/g	-	2022-02-16	B-DFHMS02	PA	a ulev	
OCDD	<0.41	---	pg/g	-	2022-02-16	B-DFHMS02	PA	a ulev	
2378-TCDF	<0.079	---	pg/g	-	2022-02-16	B-DFHMS02	PA	a ulev	
12378-PeCDF	<0.11	---	pg/g	-	2022-02-16	B-DFHMS02	PA	a ulev	
23478-PeCDF	<0.14	---	pg/g	-	2022-02-16	B-DFHMS02	PA	a ulev	
123478-HxCDF	<0.028	---	pg/g	-	2022-02-16	B-DFHMS02	PA	a ulev	
123678-HxCDF	<0.03	---	pg/g	-	2022-02-16	B-DFHMS02	PA	a ulev	
123789-HxCDF	<0.033	---	pg/g	-	2022-02-16	B-DFHMS02	PA	a ulev	
234678-HxCDF	<0.033	---	pg/g	-	2022-02-16	B-DFHMS02	PA	a ulev	
1234678-HpCDF	<0.35	---	pg/g	-	2022-02-16	B-DFHMS02	PA	a ulev	
1234789-HpCDF	<0.26	---	pg/g	-	2022-02-16	B-DFHMS02	PA	a ulev	
OCDF	<0.3	---	pg/g	-	2022-02-16	B-DFHMS02	PA	a ulev	
TEQ-Lowerbound	0	---	pg/g	-	2022-02-16	B-DFHMS02	PA	a ulev	
TEQ-Upperbound	0.1	---	pg/g	-	2022-02-16	B-DFHMS02	PA	a ulev	
PCB dioxin-like HRMS									
PCB 77	<0.32	---	pg/g	-	2022-02-16	B-PCBHMS02	PA	a ulev	
PCB 81	<0.25	---	pg/g	-	2022-02-16	B-PCBHMS02	PA	a ulev	
PCB 105	<2.4	---	pg/g	-	2022-02-16	B-PCBHMS02	PA	a ulev	
PCB 114	<1.6	---	pg/g	-	2022-02-16	B-PCBHMS02	PA	a ulev	
PCB 118	<1.9	---	pg/g	-	2022-02-16	B-PCBHMS02	PA	a ulev	
PCB 123	<1.9	---	pg/g	-	2022-02-16	B-PCBHMS02	PA	a ulev	
PCB 126	<0.71	---	pg/g	-	2022-02-16	B-PCBHMS02	PA	a ulev	
PCB 156	<1.2	---	pg/g	-	2022-02-16	B-PCBHMS02	PA	a ulev	
PCB 157	<0.77	---	pg/g	-	2022-02-16	B-PCBHMS02	PA	a ulev	
PCB 167	<0.18	---	pg/g	-	2022-02-16	B-PCBHMS02	PA	a ulev	
PCB 169	<0.76	---	pg/g	-	2022-02-16	B-PCBHMS02	PA	a ulev	
PCB 189	<0.22	---	pg/g	-	2022-02-16	B-PCBHMS02	PA	a ulev	
TEQ (dl-PCB) - lower	0	---	pg/g	-	2022-02-16	B-PCBHMS02	PA	a ulev	



Parameter	Result	MU	Unit	Client sample ID		Method	Perf. Lab	Acc. Key
				22/1017 B:100942 509100	LOR			
				Laboratory sample ID				
				Client sampling date / time				
				NO2202603001				
				2022-02-11 00:00				
				Date analysed				
Sub-Matrix: FOOD								
PCB dioxin-like HRMS - Continued								
TEQ (dl-PCB) - upper	0.095	---	pg/g	-	2022-02-16	B-PCBHMS02	PA	a ulev
PCB indicators HRMS								
PCB 28	<0.0014	---	ng/g	-	2022-02-16	B-PCBHMS04	PA	a ulev
PCB 52	<0.0019	---	ng/g	-	2022-02-16	B-PCBHMS04	PA	a ulev
PCB 101	<0.0024	---	ng/g	-	2022-02-16	B-PCBHMS04	PA	a ulev
PCB 138	<0.0058	---	ng/g	-	2022-02-16	B-PCBHMS04	PA	a ulev
PCB 153	<0.013	---	ng/g	-	2022-02-16	B-PCBHMS04	PA	a ulev
PCB 180	<0.0016	---	ng/g	-	2022-02-16	B-PCBHMS04	PA	a ulev
Total Polychlorinated biphenyls - 6 congeners - lower	0	---	ng/g	-	2022-02-16	B-PCBHMS04	PA	a ulev
Total Polychlorinated biphenyls - 6 congeners - upper	0.026	---	ng/g	-	2022-02-16	B-PCBHMS04	PA	a ulev

The end of result part of the certificate of analysis

Brief Method Summaries

Analytical Methods	Method Descriptions
B-SO2-UK (SULPHURDIOXIDE)	Sulfite in food and feed by inhouse method AM/C/925 based on Monier Williams. MU 16,5%
B-DFHMS02	CZ_SOP_D06_06_175 - except chap 10.2.3.1-10.2.3.6 (US EPA 1613B, CSN EN 16190): Determination of tetra- to octa- chlorinated dioxins and furanes by isotope dilution method using HRGC-HRMS and calculation of TEQ parameters 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 PCDD/F congener is 30%, for total WHO-TEQs is 20%.
B-PCBHMS02	CZ_SOP_D06_06_173 - except chap. 10.2.3.1-10.2.3.6 (US EPA 1668A, CSN EN 16190): Determination of polychlorinated biphenyls by isotope dilution method using HRGC-HRMS and calculation of PCB sums and TEQ parameter 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 PCB congener is 30%, for total WHO-TEQs is 20%.
B-PCBHMS04	CZ_SOP_D06_06_173 - except chap. 10.2.3.1-10.2.3.6 (US EPA 1668A, CSN EN 16190): Determination of polychlorinated biphenyls by isotope dilution method using HRGC-HRMS and calculation of PCB sums and TEQ parameter 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 PCB congener is 30%, for total PCB is 20%.



Key: **LOR** = Limit of reporting represents the standard LOR for the respective parameters in each method. Note that limits of reporting may be affected if, e.g. additional dilution was required because of matrix effects, or the sample quantity was limited.

MU = Measurement Uncertainty

a = Symbol a in accreditation column represents accredited analysis by ALS Laboratory Group Norway AS

a ulev = Symbol a ulev in accreditation column represents accredited analysis by subcontracted laboratory

* = Symbol preceding any result indicates laboratory or subcontractor non-accredited test.

< means less than

> means more than

n.a. – not applicable

n.d. – not detected

Measurement Uncertainty:

Measurement uncertainty should be available for accredited methods. If this is not given for some analysis in the report it will be stated by contacting the laboratory.

The uncertainty is given as extended uncertainty (according to the definition in "Guide to the Expression of Measurement", JCGM 100:2008 Corrected version 2010) calculated with a coverage factor of 2, which give level of approximately 95%.

Measurement of uncertainty is reported only for detected substances with levels above the reporting limits.

The uncertainty from subcontractors is often given as extended uncertainty calculated with a coverage factor of 2. Contact the laboratory for further information.

Issuing lab

	Issuer
PA	The analysis is provided by ALS Czech Republic, s.r.o., V Raji 906 Pardubice - Zelene Predmesti Czech Republic 530 02
UC	The analysis is provided by ALS Laboratories UK Ltd. Avd Chatteris, Medcalfe Way, Bridge Street Chatteris, Cambridgeshire United Kingdom