



## CERTIFICATE OF ANALYSIS

Work Order	: PR23E5076	Issue Date	: 09-Jan-2024
Customer	: ALS Life Sciences Ltd	Laboratory	: ALS Czech Republic, s.r.o.
Contact	: Rosemary Thomas	Contact	: Client Service
Address	: Carrigeen Business Park Clonmel Co. Tipperary Tipperary Ireland	Address	: Na Harfe 336/9 Prague 9 - Vysocany 190 00 Czech Republic
E-mail	: rose.thomas@ALSGlobal.com	E-mail	: customer.support@alsglobal.com
Telephone	: ----	Telephone	: +420 226 226 228
Project	: MCP-281121223	Page	: 1 of 3
Order number	: ----	Date Samples Received	: 14-Dec-2023
		Quote number	: PR2012ALSLI-IE0002 (CZ-200-12-0931_V3)
Site	: ----	Date of test	: 14-Dec-2023 - 09-Jan-2024
Sampled by	: customer	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.

All results highlighted in Bold indicate a reading above the Limit of Reporting (LOR) only for that test, and are not compared with any parametric value.

Attachment number 001 is an integral part of the certificate of analysis.

### Responsible for accuracy

Testing Laboratory No. 1163  
Accredited by CAI according to  
CSN EN ISO/IEC 17025:2018

#### Signatories

Lubomír Pokorný

#### Position

Country Manager



The company is certified according to ČSN EN ISO 14001 (Environmental management systems) and ČSN ISO 45001 (Occupational health and safety management systems)



## Analytical Results

Sub-Matrix: INDUSTRIAL LIQUID				Client sample ID		5892179		----		----	
				Laboratory sample ID		12.12.23 Effluent					
				Client sampling date / time		PR23E5076001		----		----	
						[14-Dec-2023]		----		----	
Parameter	Method	LOR	Unit	Result	MU	Result	MU	Result	MU		
<b>Total Metals / Major Cations</b>											
Annex Analyte	I-ANNEX-ICP	1	-	See Attached	---	----	---	----	---		

Sub-Matrix: EFFLUENT				Client sample ID		5892179		----		----	
				Laboratory sample ID		12.12.23 Effluent					
				Client sampling date / time		PR23E5076001		----		----	
						[14-Dec-2023]		----		----	
Parameter	Method	LOR	Unit	Result	MU	Result	MU	Result	MU		
<b>Agregate Parameters</b>											
Oil and Grease	W-TECD-IR	0.050	mg/L	<0.050	---	----	---	----	---		
<b>Nonmetallic Inorganic Parameters</b>											
Anionic Surfactants as MBAS	W-SURA-CFA	0.020	mg/L	<0.020	---	----	---	----	---		
<b>Total Metals / Major Cations</b>											
Aluminium	W-METAXDG1	0.010	mg/L	0.053	± 10.0%	----	---	----	---		
Antimony	W-METAXDG1	0.020	mg/L	<0.020	---	----	---	----	---		
Arsenic	W-METAXDG1	0.010	mg/L	<0.010	---	----	---	----	---		
Barium	W-METAXDG1	0.00050	mg/L	0.00394	± 10.0%	----	---	----	---		
Beryllium	W-METAXDG1	0.00020	mg/L	<0.00020	---	----	---	----	---		
Boron	W-METAXDG1	0.010	mg/L	0.105	± 10.0%	----	---	----	---		
Cadmium	W-METAXDG1	0.0020	mg/L	<0.0020	---	----	---	----	---		
Calcium	W-METAXDG1	0.050	mg/L	5.82	± 10.0%	----	---	----	---		
Chromium	W-METAXDG1	0.0020	mg/L	<0.0020	---	----	---	----	---		
Cobalt	W-METAXDG1	0.0020	mg/L	<0.0020	---	----	---	----	---		
Copper	W-METAXDG1	0.0020	mg/L	0.0117	± 10.0%	----	---	----	---		
Iron	W-METAXDG1	0.0050	mg/L	0.346	± 10.0%	----	---	----	---		
Lead	W-METAXDG1	0.010	mg/L	<0.010	---	----	---	----	---		
Magnesium	W-METAXDG1	0.020	mg/L	0.374	± 10.0%	----	---	----	---		
Manganese	W-METAXDG1	0.00050	mg/L	0.00310	± 10.0%	----	---	----	---		
Mercury	W-HG-AFSDG	0.200	µg/L	<0.200	---	----	---	----	---		
Molybdenum	W-METAXDG1	0.0030	mg/L	<0.0030	---	----	---	----	---		
Nickel	W-METAXDG1	0.0050	mg/L	<0.0050	---	----	---	----	---		
Potassium	W-METAXDG1	0.015	mg/L	6.36	± 10.0%	----	---	----	---		
Selenium	W-METAXDG1	0.030	mg/L	<0.030	---	----	---	----	---		
Silver	W-METAXDG1	0.0050	mg/L	<0.0050	---	----	---	----	---		
Sodium	W-METAXDG1	0.030	mg/L	451	± 10.0%	----	---	----	---		
Thallium	W-METAXDG1	0.010	mg/L	<0.010	---	----	---	----	---		
Vanadium	W-METAXDG1	0.0020	mg/L	<0.0020	---	----	---	----	---		
Zinc	W-METAXDG1	0.0030	mg/L	0.0508	± 10.0%	----	---	----	---		

When sampling date is not provided by the client, the laboratory determines it for procedural reasons, then it is equal to the date of receipt of the sample to the laboratory and is displayed in brackets. 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: Bendlova 1687/7 Ceska Lipa Czech Republic 470 01	
W-SURA-CFA	CZ_SOP_D06_07_067 (CSN ISO 16265, SKALAR company methodology, CSN EN 903) Determination of anionic surfactants by methylen blue (MBAS) by continuous flow analysis (CFA) method spectrophotometrically.
Location of test performance: Na Harfe 336/9 Prague 9 - Vysocany Czech Republic 190 00	
* I-ANNEX-ICP	Result(s) of non-routine analyse(s) in Annex



<i>Analytical Methods</i>	<i>Method Descriptions</i>
W-HG-AFSDG	CZ_SOP_D06_02_096 (US EPA Method 245.7, CSN EN ISO 17852) - Determination of Mercury by Fluorescence Spectrometry. Sample was homogenized and mineralized by nitric acid in autoclave under high pressure and temperature prior to analysis.
W-METAXDG1	CZ_SOP_D06_02_001 (US EPA Method 200.7, CSN EN ISO 11885, US EPA Method 6010, SM 3120, CSN 75 7358) - Determination of elements by atomic emission spectrometry with inductively coupled plasma and stoichiometric calculations of compounds concentration from measured values including the calculation of total mineralization and calculating the sum of Ca+Mg. Sample was homogenized and mineralized by nitric acid in autoclave under high pressure and temperature prior to analysis.
W-TECD-IR	CZ_SOP_D06_02_059 (CSN 75 7506:2006, STN 83 0520-27:2015, STN 83 0540-4, SS 028145, D/S 209, SFS 3010) Determination of extractable substances by infrared spectrometry and calculation of polar extractable substances from measured values.

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 the summation parameters is available on request in the customer service.

***The end of the certificate of analysis***