



CERTIFICATE OF ANALYSIS

Work Order	: PR2464691-AA	Issue Date	: 27-Jun-2024
Amendment	: 1		
Customer	: ALS Life Sciences Ltd	Laboratory	: ALS Czech Republic, s.r.o.
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Project	: BLUER-708290524	Page	: 1 of 2
Order number	: ----	Date Samples	: 31-May-2024
		Received	
		Quote number	: PR2012ALSLI-IE0002 (CZ-200-12-0931_V3)
Site	: ----	Date of test	: 31-May-2024 - 11-Jun-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 the sample data supplied by the customer and their impact on the validity of the result.

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.

Amendment No. 1: The report divided into sub-reports.

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.

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: WATER				Client sample ID					
				6156271		6156273		6156275	
				SW3 Shannonside		SW2 Shannonside		SW1 Shannonside	
				PR2464691001		PR2464691002		PR2464691003	
				[31-May-2024]		[31-May-2024]		[31-May-2024]	
				Laboratory sample ID					
				Client sampling date / time					
Parameter	Method	LOR	Unit	Result	MU	Result	MU	Result	MU
Physical Parameters									
pH Value	W-PH-PCT	0.01	-	7.20	± 1.0%	7.35	± 1.0%	7.38	± 1.0%
Nonmetallic Inorganic Parameters									
Ammonia (free)	W-NH3-CC3	0.010	mg/L	<0.010	---	<0.010	---	<0.010	---
Ammonia and ammonium ions as N	W-NH4-SPC	0.040	mg/L	0.048	± 15.0%	<0.040	---	<0.040	---
Ammonia and ammonium ions as NH4	W-NH4-SPC	0.050	mg/L	0.062	± 15.0%	<0.050	---	<0.050	---
Chloride	W-CL-IC	1.00	mg/L	4.86	± 15.0%	19.2	± 15.0%	18.6	± 15.0%
Ammonia (free) as N	W-NH3-CC3	0.010	mg/L	<0.010	---	<0.010	---	<0.010	---
Pesticides									
Propiconazole	W-PESLMS02	0.050	µg/L	2.97	± 30.0%	0.454	± 30.0%	1.06	± 30.0%
Tebuconazole	W-PESLMS02	0.050	µg/L	2.76	± 30.0%	0.398	± 30.0%	0.954	± 30.0%

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: Na Harfe 336/9 Prague 9 - Vysocany Czech Republic 190 00	
W-CL-IC	CZ_SOP_D06_02_068 (CSN EN ISO 10304-1) Determination of dissolved fluoride, chloride, nitrite, bromide, nitrate and sulphate by ion liquid chromatography and calculation of nitrite nitrogen and nitrate nitrogen and sulphate sulphur from measured values including the calculation of total mineralization.
W-NH3-CC2	CZ_SOP_D06_02_019 (CSN EN ISO 11732, CSN EN ISO 13395, SM 4500-NO2(-), SM 4500-NO3(-)) Determination of sum of ammonium and ammonium ions, nitrite and the sum of nitrite and nitrate ions by discrete spectrophotometry and calculation of nitrite, nitrate, ammonia, inorganic, organic, total nitrogen, free ammonia and dissociated ammonium ions from measured values including the calculation of total mineralization
W-NH3-CC3	CZ_SOP_D06_02_019 (CSN EN ISO 11732, CSN EN ISO 13395, SM 4500-NO2(-), SM 4500-NO3(-)) Determination of sum of ammonium and ammonium ions, nitrite and the sum of nitrite and nitrate ions by discrete spectrophotometry and calculation of nitrite, nitrate, ammonia, inorganic, organic, total nitrogen, free ammonia and dissociated ammonium ions from measured values including the calculation of total mineralization. Results of Ammonia (free) are calculated by value pH from laboratory and temperature 25 °C.
W-NH4-SPC	CZ_SOP_D06_02_019 (CSN EN ISO 11732, CSN EN ISO 13395, SM 4500-NO2-, SM 4500-NO3-) Determination of sum of ammonium and ammonium ions, nitrite and the sum of nitrite and nitrate ions by discrete spectrophotometry and calculation of nitrite, nitrate, ammonia, inorganic, organic, total nitrogen, free ammonia and dissociated ammonium ions from measured values including the calculation of total mineralization
W-PESLMS02	CZ_SOP_D06_03_183.A (US EPA Method 535, US EPA Method 1694) Determination of pesticides, pesticide metabolites, drug residues and other pollutants by liquid chromatography method with MS/MS detection and calculation of pesticides, pesticide metabolites, drug residues and other pollutants sums from measured values.
W-PH-PCT	CZ_SOP_D06_02_105 (CSN ISO 10523, US EPA Method 150.1, SM 4500-H+ B) Determination of pH by potentiometry

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