



**EA MLA Signatory**  
**Český institut pro akreditaci, o.p.s.**  
(Czech Accreditation Institute)  
**Hájkova 2747/22, Žižkov, 130 00 Praha 3**

issues

according to section 16 of Act No. 22/1997 Coll., on technical requirements for products and on changes and amendments to some Acts, as amended

# CERTIFICATE OF ACCREDITATION

No. 382/2025

**BorsodChem MCHZ, s.r.o.**  
**with registered office Chemická 2039/1, Mariánské Hory, 709 00 Ostrava**  
**Company Registration No. 26019388**

for the Testing Laboratory No. 1370  
TK S-blok Laboratory

Scope of accreditation:

Testing in the field of analysis of water, aqueous extracts, air in working environment, including sampling to the extent as specified in the appendix to this Certificate.

This Certificate of Accreditation is a proof of accreditation issued on the basis of assessment of fulfillment of the accreditation criteria in accordance with

**ČSN EN ISO/IEC 17025:2018**

In its activities performed within the scope and for the period of validity of this Certificate, the abovementioned Accredited Body is entitled to refer to this Certificate, provided that the accreditation is not suspended and the Accredited Body meets the specified accreditation requirements in accordance with the relevant regulations applicable to the activity of an accredited conformity assessment body.

This Certificate of Accreditation replaces, to the full extent, Certificate No.: 172/2023 of 11/04/2023, and/or any administrative acts building upon it.

The Certificate of Accreditation is valid until: **24/07/2030**

Prague: 24/07/2025



Signed in the Czech original:  
Gor Petrosjan on 24/07/2025

**Jan Velíšek**  
Director of the Department  
of Testing and Calibration Laboratories  
Czech Accreditation Institute

This translation of the Czech original has been issued by: Eliška Frycová

**The Appendix is an integral part of  
Certificate of Accreditation No. 382/2025 of 24/07/2025**

**Accredited entity according to ČSN EN ISO/IEC 17025:2018:**

**BorsodChem MCHZ, s.r.o.**

CAB number 1370, TK S-blok Laboratory  
Chemická 2039/1, Mariánské Hory, 709 00 Ostrava

*The laboratory applies a flexible approach to the scope of accreditation.*

*The current list of activities carried out within the flexible scope is available on the laboratory's website <https://borsodchem.cz/o-nas/politika-ims> in the form of the „List of activities within the flexible scope of accreditation“.*

*The laboratory is qualified to carry out standalone sampling.*

*Detailed information on activities within the scope of accreditation (determined analytes) is given in the section „Specification of the scope of accreditation“.*

**Tests:**

Ordinal number <sup>1</sup>	Test procedure / method name	Test procedure / method identification <sup>2</sup>	Tested subject	Degrees of freedom <sup>3</sup>
1	Determination of hydrocarbons C10 – C40 by GC-FID method	A3-0200 (ČSN EN ISO 9377-2; ČSN EN 14039)	Surface water, waste water	-
2	Determination of anions by IC method with conductivity detection	A3-0229 (ČSN EN ISO 10304-1)	Surface water, waste water	B, D
3	Determination of semi-volatile compounds by SPME-GC method with FID detection	A3-0257 (EPA 8270 E)	Surface water, waste water	B, D
4	Determination of phosphate and total phosphorus by spectrophotometry using HACH commercial set	A3-0315 (ČSN ISO 17381; HACH manual)	Surface water, waste water	-
5	Determination of metals by flame AAS method	A3-0345 (ČSN ISO 8288; ČSN EN 1233; ČSN ISO 7980; ČSN 75 7385; ČSN ISO 9964-2; ČSN ISO 9964-1)	Surface water, waste water	B, D
6	Determination of ammonium by spectrophotometry	A3-0368 (ČSN ISO 7150-1)	Surface water, waste water	-
7	Determination of phenols by spectrophotometry	A3-0369 (ČSN ISO 6439)	Surface water, waste water	-
8	Determination of nitrate by spectrophotometry and nitrate nitrogen	A3-0370 (ČSN ISO 7890-3)	Surface water, waste water	-
9	Determination of chemical oxygen demand (COD <sub>C<sub>1</sub></sub> ) by spectrophotometric method using HACH commercial set	A3-0373 (ČSN ISO 17381; HACH manual)	Surface water, waste water	-
10	Determination of nitrite by spectrophotometry and nitrite nitrogen	A3-0391 (ČSN EN 26777)	Surface water, waste water	-
11	Determination of ozone by spectrophotometry	A3-0395 (EUTECH manual)	Surface water, waste water	-

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Ordinal number <sup>1</sup>	Test procedure / method name	Test procedure / method identification <sup>2</sup>	Tested subject	Degrees of freedom <sup>3</sup>
12	Determination of dissolved solids and dissolved inorganic salts by gravimetry	A3-0431A (ČSN 75 7346; ČSN 75 7347)	Surface water, waste water	-
13	Determination of biochemical oxygen demand (BOD <sub>5</sub> ) by manometric method	A3-0592 (Manual WTW)	Surface water, waste water	-
14	Determination of electrical conductivity	A3-0829 (ČSN EN 27888)	Surface water, waste water	-
15	Determination of TC, TOC, InC, DOC by an analyzer with IR detection	A3-0922A (ČSN EN ISO 20236)	Surface water, waste water	-
16	Determination of pH by potentiometry	A3-1023 (ČSN ISO 10523)	Surface water, waste water	-
17	Determination of volatile compounds by SPME-GC method with FID detection	A3-2047 (ČSN EN ISO 15680; ČSN ISO 11423-2)	Surface water, waste water	B, D
18	Determination of organic compounds by TD – GC method with FID detection	A3-0254 (ČSN EN ISO 16017-1; EPA TO-17)	Workplace atmospheres	B, D
19	Determination of NO, NO <sub>2</sub> , NH <sub>3</sub> by electrochemical analyzer	A3-0310 (IBRID manual)	Workplace atmospheres	-
20	Determination of ammonia by spectrophotometry	A3-0339 (ČSN 83 4728-4; NIOSH 6015; ČSN ISO 7150-1)	Workplace atmospheres	-
21	Determination of nitric acid by spectrophotometry	A3-0814 (NIOSH 7903; ČSN ISO 7890-3)	Workplace atmospheres	-
22	Determination of formaldehyde by HPLC method with UV VIS detection	A3-2048 (ČSN EN ISO 16000-2; NIOSH 2016)	Workplace atmospheres	-
23	Determination of TN by chemiluminescence analyzer	A3-0922B (ČSN EN ISO 20236)	Surface water, waste water	-
24	Determination of suspended solids by gravimetry	A3-0431B (ČSN EN 872)	Surface water, waste water	-

<sup>1</sup> asterisk at the ordinal number identifies the tests, which the laboratory is qualified to carry out outside the permanent laboratory premises

<sup>2</sup> if the document identifying the test procedure is dated, only these specific procedures are used. If the document identifying the test procedure is not dated, the latest valid edition of the specified procedure is used (including any changes)

<sup>3</sup> degrees of freedom: A – Flexibility concerning materials/products (subject of the test), B – Flexibility concerning components/parameters/characteristics, C – Flexibility concerning the performance of the method, D – Flexibility concerning the method

The laboratory can modify the test procedures with the specified degree(s) of freedom in the scope of accreditation while maintaining the principle of measurement. If no degree of freedom is specified, the laboratory cannot apply a flexible approach to the scope of accreditation for the test.

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**Specification of the scope of accreditation:**

Ordinal test number	Detailed information on activities within the scope of accreditation (determined analytes)
2	chlorides, nitrates, nitrites, sulphates, phosphates
3	aniline, nitrobenzene
5	Fe, Cu, Ni, Cr, Zn, Cd, Pb, Ca, Na, K, Mg
17	benzene, toluene, xylenes
18	benzene, acetone, aniline, N-ethylaniline, N, N-diethylaniline, nitrobenzene, dimethylamine, dimethylisopropylamine, cyclohexylamine, dimethylcyclohexylamine, diethylenglycol

**Sampling:**

Ordinal number	Sampling procedure name	Sampling procedure identification <sup>1</sup>	Subject of sampling
1	Waste water sampling – automatic samplers	O4-027/72 (ČSN EN ISO 5667-1; ČSN EN ISO 5667-3; ČSN ISO 5667-10; ČSN EN ISO 5667-14; ČSN 757315; ČSN EN 16479)	Waste water
2	Waste water sampling – manual sampling	O4-028/72 (ČSN EN ISO 5667-1; ČSN EN ISO 5667-3; ČSN ISO 5667-10; ČSN EN ISO 5667-14; ČSN 757315)	Waste water
3	Surface water sampling – manual sampling	O4-031/72 (ČSN EN ISO 5667-1; ČSN EN ISO 5667-3; ČSN ISO 5667-4; ČSN ISO 5667-6; ČSN EN ISO 5667-14)	Surface water
4	Sampling of air from working environment – sorption tubes	O4-029/72 (ČSN EN 482; ČSN EN 689+AC; ČSN EN ISO 16017-1; ČSN EN ISO 13137; GR No.361/2007Coll.)	Workplace atmospheres

- <sup>1</sup> if the document identifying the sampling procedure is dated, only these specific procedures are used. If the document identifying the sampling procedure is not dated, the latest valid edition of the specified procedure is used (including any changes)

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**Explanatory notes:**

A - Test Procedure  
O - Sampling Procedure  
GC - Gas Chromatography  
AAS - Atomic Absorption Spectrometry  
EPA - Environmental Protection Agency  
IC - Ion Chromatography  
IR - Infrared  
NIOSH - National Institute for Occupational Safety and Health  
SPME - Solid Phase Micro Extraction  
TD - Thermal Desorption  
TC - Total Carbon  
TOC - Total Organic Carbon  
InC - Inorganic Carbon  
DOC - Dissolved Organic Carbon  
TN - Total Nitrogen  
FID - Flame Ionisation Detector  
ECD - Electron Capture Detector  
N<sub>2</sub>O - Nitrogen oxide  
NO<sub>2</sub> - Nitrogen dioxide  
GR - Government Regulation  
HPLC - High Pressure Liquid Chromatography  
UV VIS - Ultraviolet-visible spectrography

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*"This document is an appendix to the certificate of accreditation. In case of any discrepancies between the English and Czech versions, the Czech version shall prevail, both for the certificate appendix and the certificate itself."*