



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. 27/2026

LB MINERALS, s.r.o.
with registered office Tovární 431, 330 12 Horní Bříza
Company Registration No. 27994929

for the Testing Laboratory No. 1173
Central Laboratory

Scope of accreditation:

Chemical analysis of silicates, analyses of waste and surface water including sampling, noise, dust and vibration measurement, determination of linear thermal expansion 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.: 624/2024 of 27/11/2024, and/or any administrative acts building upon it.

The Certificate of Accreditation is valid until: **13/01/2031**

Prague: 13/01/2026



Signed in the Czech original:
Zdeňka Drdová on 13/01/2026

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: 27/2026 of 13/01/2026**

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

LB MINERALS, s.r.o.
CAB number 1173, Central Laboratory
Tovární 431, 330 12 Horní Bříza

The laboratory is qualified to carry out standalone sampling.

Tests:

Ordinal number ¹	Test procedure / method name	Test procedure / method identification ²	Tested subject	Degrees of freedom ³
1	Silicate determination			
1.1	Chemical analysis of silicates by X-ray fluorescence spectrometer - Chemical analysis of silicate by X-ray fluorescence spectrometer – determination of SiO ₂ , Al ₂ O ₃ , TiO ₂ , Fe ₂ O ₃ , CaO, MgO, Na ₂ O, K ₂ O, P ₂ O ₅ , ZrO ₂	KP 31 – 201 A (ČSN EN ISO 12677; PANalytical manual)	Raw materials and products of the silicate industry	-
1.2	Determination of the loss on ignition by gravimetry	KP 31 – 201 B (ČSN 72 0103)	Raw materials and products of the silicate industry	-
2	Dust			
2.1*	Measurement of dust nuisance	KP 31 – 203 (Government Regulation No. 361/2007 Coll., Annex 3, Part D; ČSN EN 481)	Working air	-
3	Noise			
3.1*	Measurement of noise	KP 31 – 258 (ČSN EN ISO 9612; MoH Bulletin No. 4/2013)	Working environment	-
4	Water			
4.1	Determination of dissolved solids (RL 105), annealed dissolved solids (RL 550), dissolved inorganic salts (RAS) by gravimetry using glass fibre filters	KP 31 – 282 (ČSN 75 7346; ČSN 75 7347)	Waste water, surface water	-
4.2	Determination of suspended solids (NL 105), annealed suspended solids (NL 550), loss on ignition of suspended solids (ZŽ) _{NL} by gravimetry	KP 31 – 283 (ČSN EN 872; ČSN 75 7350)	Waste water, surface water	-
4.3	Determination of sulphate (SO ₄ ²⁻) by spectrophotometry - HACH commercial analytical set	KP 31 – 272 (HACH Manual)	Waste water, surface water, kaolin and feldspar leachate	-

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Ordinal number ¹	Test procedure / method name	Test procedure / method identification ²	Tested subject	Degrees of freedom ³
4.4	Determination of chemical oxygen demand with dichromate (COD _{Cr}) by spectrophotometry - HACH commercial analytical set	KP 31 – 263 (ČSN ISO 15705; HACH Manual)	Waste water, surface water	-
4.5	Determination of biochemical oxygen demand after n days (BOD _n) - method for diluted samples	KP 31 – 281 A (ČSN EN ISO 5815-1)	Waste water, surface water	-
4.6	Determination of biochemical oxygen demand after n days (BOD _n) - method for undiluted samples	KP 31 – 281 B (ČSN EN 1899-2)	Waste water, surface water	-
4.7	Determination of pH by potentiometry	KP 31 – 280 (ČSN ISO 10 523)	Waste water, surface water, kaolin and feldspar leachate	-
4.8*	Determination of dissolved oxygen electrochemically	KP 31 – 286 A (ČSN EN ISO 5814)	Waste water, surface water	-
4.9*	Determination of temperature	KP 31 – 286 B (ČSN 75 7342)	Waste water, surface water	-
4.10	Determination of the sum of calcium and magnesium by titration, determination of magnesium by calculation	KP 31 – 276 A (ČSN ISO 6058; ČSN ISO 6059)	Waste water, surface water, kaolin and feldspar leachate	-
4.11	Determination of calcium by titration	KP 31 – 276 B (ČSN ISO 6058)	Waste water, surface water, kaolin and feldspar leachate	-
4.12	Determination of acid neutralizing capacity (ANC _{4,5}) by titration	KP 31 – 277 (ČSN EN ISO 9963-1)	Waste water, surface water	-
4.13	Determination of chloride (Cl ⁻) by titration by argentometry	KP 31 – 278 (ČSN ISO 9297)	Waste water, surface water, kaolin and feldspar leachate	-
4.14	Determination of ammonia nitrogen (N-NH ₄) by distillation	KP 31 – 279 (ČSN ISO 5664)	Waste water, surface water	-
4.15	Determination of ammonium (NH ₄ ⁺), ammonia nitrogen (N-NH ₄) by spectrophotometry - commercial analytical set	KP 31 – 264 (ČSN ISO 7150-1; HACH Manual)	Waste water, surface water	-
4.16*	Determination of pH by potentiometry	KP 31 – 286 C (ČSN ISO 10 523)	Waste water, surface water	-

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Ordinal number ¹	Test procedure / method name	Test procedure / method identification ²	Tested subject	Degrees of freedom ³
4.17	Determination of nitrate (NO ₃ ⁻), nitrate nitrogen (N-NO ₃) by spectrophotometry -commercial analytical set	KP 31 – 265 (ČSN ISO 7890-3; HACH Manual)	Waste water, surface water	-
4.18	Determination of total phosphorus (P _c), phosphate (PO ₄ ³⁻) by spectrophotometry - commercial analytical set	KP 31 – 266 (ČSN EN ISO 6878; HACH Manual)	Waste water, surface water	-
4.19	Determination of nitrite (NO ₂ ⁻), nitrite nitrogen (N-NO ₂) by spectrophotometry - commercial analytical set	KP 31 – 267 (ČSN EN 26777; HACH Manual)	Waste water, surface water	-
4.20*	Determination of conductivity by conductometry	KP 31 – 286 D (ČSN EN 27888)	Waste water, surface water	-
4.21	Determination of iron (Fe) by spectrophotometry	KP 31 – 268 (ČSN ISO 6332)	Waste water, surface water	-
5	Dilatation			
5.1	Determination of coefficient of linear expansion	KP 31 – 274 (ČSN EN ISO 10 545-8; ČSN 72 6031; ČSN 72 1083; ČSN EN ISO 17562; Netzsch Manual)	Raw materials and products of the silicate industry	-
6	Vibration			
6.1*	Measurement of vibration	KP 31 – 261 (ČSN ISO 2631-1; ČSN EN ISO 5349-2; MoH Bulletin No. 8/2013)	Working environment	-

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

² 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)

³ the laboratory does not apply a flexible approach to the scope of accreditation

Sampling:

Ordinal number	Sampling procedure name	Sampling procedure identification ¹	Subject of sampling
1	Water sampling		
1.1	Waste water sampling (manual sampling and sampling using an automatic sampler)	KP 31 – 237 A (ČSN EN ISO 5667-1; ČSN EN ISO 5667-3; ČSN ISO 5667-10; ČSN EN ISO 5667-14)	Waste water

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Ordinal number	Sampling procedure name	Sampling procedure identification ¹	Subject of sampling
1.2	Surface water sampling (manual sampling and sampling using an automatic sampler)	KP 31 – 237 B (ČSN EN ISO 5667-1; ČSN EN ISO 5667-3; ČSN EN ISO 5667-4; ČSN EN ISO 5667-6; ČSN EN ISO 5667-14)	Surface water

¹ 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)

Explanations:

KP	Control procedure
MoH Bulletin	Ministry of Health Bulletin

"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. "