



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. 632/2025

PRECIOSA, a.s.
with registered office Opletalova 3197/17, 466 01 Jablonec nad Nisou
Company Registration No. 00012556

for the Testing Laboratory No. 1455
Analytical laboratory

Scope of accreditation:

Analysis of glass, ceramic and porcelain products, synthetic and natural gems and raw-materials for their production, silicate production waste, metallic materials for the production of artificial jewellery and the determination of glass density; analysis of water including sampling and analysis of extracts 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

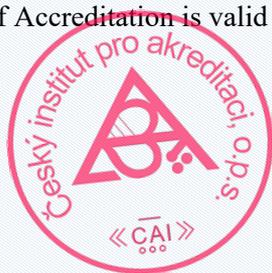
ČSN EN ISO/IEC 17025:2018

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.: 435/2024 of 29/08/2024, and/or any administrative acts building upon it.

The Certificate of Accreditation is valid until: **13/04/2028**

Prague: 05/12/2025



Signed in the Czech original:
Zdeňka Drdová on 05/12/2025

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: 632/2025 of 05/12/2025**

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

PRECIOSA, a.s.
CAB number 1455, Analytical laboratory
Sklářská 92, Pilínkov, 463 12 Liberec 24

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 ¹	Test procedure / method name	Test procedure / method identification ²	Tested subject	Degrees of freedom ³
1	Determination of elements by ICP AES and expression of oxide content by calculation	SPP 020 (ČSN EN 62321-5; ČSN EN ISO 11885; CPSC-CH-E1003-09.1; CPSC-CH-E1002-08.3; CPSC-CH-E1001-08.3; ASTM F963, cl. 4.3.5. and 8.3.1)	Glass, ceramic, porcelain products, synthetic and natural gems and raw-materials for their production, silicate production waste, other materials for the production of costume jewellery (metal, coatings)	-
2	Determination of silicon dioxide by gravimetry	SPP 021 (ČSN 70 0621-1; ČSN 70 0621-2)	Glass	-
3	Determination of density by double weighing method	SPP 022 (ČSN EN ISO 1183-1, method A)	Glass, ceramic, porcelain products, synthetic and natural gems and raw-materials for their production	-
4	Determination of the content of Cr ^{VI} by spectrophotometry	SPP 024 (BAM-S004)	Glass	-
5	Determination of elements by XRF spectrometry method and expression of oxide content by calculation	SPP 026 (SPECTRO manual; ČSN EN 62321-3-1; CPSC-CH-E1003-09.1; CPSC-CH-E1002-08.3; CPSC-CH-E1001-08.3; ASTM F963, cl. 4.3.5. and 8.3.1.)	Glass, ceramic, porcelain products, synthetic and natural gems and raw-materials for their production, silicate production waste, other materials for the production of costume jewellery (metals, coatings, plastics)	-
6	Determination of resistance to acid by gravimetry	SPP 028 (ČSN 70 0532-2; DIN 12116)	Glass	-
7	Resistance to attack by a boiling aqueous solution of mixed alkali by gravimetry	SPP 029 (ČSN ISO 695)	Glass	-
8	Resistance of glass cullet to water at 98 °C by titration	SPP 030 (ČSN ISO 719)	Glass	-
9	Determination of pH by potentiometry	SPP 001 (ČSN ISO 10523)	Ground, surface and waste water, leachates of waste	-
10	Determination of BOD ₅ by titration	SPP 002 (ČSN EN ISO 5815-1; ČSN EN 25813, cl. 6.6 and 7)	Ground, surface and waste water	-

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Ordinal number ¹	Test procedure / method name	Test procedure / method identification ²	Tested subject	Degrees of freedom ³
11	Determination of nitrate ions by spectrophotometry and nitrate and total inorganic nitrogen by calculation	SPP 003 (ČSN ISO 7890-3)	Ground, surface and waste water	-
12	Determination of ammonium by spectrophotometry and ammonia nitrogen by calculation	SPP 004 (ČSN ISO 7150-1)	Ground, surface and waste water, leachates of waste	-
13	Potentiometric determination of fluoride by ISE	SPP 005 (ČSN ISO 10359-1)	Ground, surface and waste water, leachates of waste	-
14	Determination of chlorides by mercurimetry	SPP 006 (ČSN 83 0530-20:1978, method B)	Ground, surface and waste water, leachates of waste	-
15	Determination of electrical conductivity	SPP 007 (ČSN EN 27888)	Ground, surface and waste water, leachates of waste	-
16	Determination of anionic surfactants by spectrophotometry	SPP 008 (ČSN EN 903)	Ground, surface and waste water	-
17	Determination of sulphate by gravimetry as BaSO ₄	SPP 009 (TNV 75 7476)	Ground, surface and waste water	-
18	Determination of COD _{Cr} by titrimetry	SPP 010 (ČSN ISO 6060)	Ground, surface and waste water	-
19	Determination of nitrite by spectrophotometry and nitrite nitrogen by calculation	SPP 011 (ČSN EN 26777)	Ground, surface and waste water, leachates of waste	-
20	Determination of DS and DIS by gravimetry	SPP 012 (ČSN 75 7346; ČSN 75 7347)	Ground, surface and waste water	-
21	Determination of suspended solids by gravimetry	SPP 013 (ČSN EN 872)	Ground, surface and waste water	-
22	Determination of elements by ICP AES method	SPP 016 (ČSN EN ISO 11885; ČSN EN 71-3+A2; ASTM F963, cl. 4.3.5. and 8.3.5.; ČSN EN 12457-2; ČSN EN ISO 105-E04; ASTM C738; ČSN EN 1811; Regulation No. 38/2001, Annex No. 9)	Ground, surface and waste water, leachates of waste and leachates of materials for jewellery and costume jewellery, leachates of glass and glass-ceramic products intended for contact with food	-
23	Determination of loss on drying	SPP 031 (ČSN 72 0100; ČSN 72 0102)	Silicates, raw materials for glass and ceramics production	-

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Ordinal number ¹	Test procedure / method name	Test procedure / method identification ²	Tested subject	Degrees of freedom ³
24	Determination of loss on ignition	SPP 032 (ČSN 720100; ČSN 720103; ČSN 65 3110:1953)	Silicates, raw materials for glass and ceramics production	-

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

Specification of the scope of accreditation:

Ordinal test number	Detailed information on activities within the scope of accreditation (determined analytes)
1	Ag, Al, As, Au, B, Ba, Bi, Ca, Cd, Ce, Co, Cr _{tot} , Cu, Er, Fe, Gd, Hf, K, La, Li, Mg, Mn, Mo, Na, Nd, Ni, P, Pb, Pr, Sb, Se, Si, Sn, Sr, Ti, Y, Zn, Zr
5	Cd, Fe, Pb, Cr, Ni
22	Ag, Al, As, B, Ba, Ca, Cd, Co, Cr, Cu, Fe, Li, Mg, Mn, Mo, Ni, P, Pb, Sb, Se, Sn, Sr, Ti, Zn, Zr

Sampling:

Ordinal number	Sampling procedure name	Sampling procedure identification ¹	Subject of sampling
1	Surface water sampling - manual sampling	SPP 017 A (ČSN EN ISO 5667-1; ČSN EN ISO 5667-3; ČSN ISO 5667-4; ČSN EN ISO 5667-6; ČSN EN ISO 5667-14)	Surface water
2	Waste water sampling - manual sampling, sampling by an automatic sampler	SPP 017 B (ČSN EN ISO 5667-1; ČSN EN ISO 5667-3; ČSN ISO 5667-10; ČSN EN ISO 5667-14)	Waste water
3	Ground water sampling from a faucet or tank - manual sampling	SPP 017 C (ČSN EN ISO 5667-1; ČSN EN ISO 5667-3; ČSN ISO 5667-11; ČSN EN ISO 5667-14)	Ground water – sampling from a faucet or tank

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)

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Explanations:

DS	dissolved solids
DIS	fixed dissolved solids
COD _{Cr}	chemical oxygen demand
BOD ₅	biochemical oxygen demand
ISE	ion selective electrode
ICP AES	inductively coupled plasma atomic emission spectroscopy
XRF spectrometry	X-ray fluorescence spectrometry
BAM	Federal Institute for Materials Research and Testing
SPP	standard operating procedure

"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. "