



EA MLA Signatory  
Český institut pro akreditaci, o.p.s.  
Hájkova 2747/22, Žižkov, 130 00 Praha 3

issues

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

# CERTIFICATE OF ACCREDITATION

No. 692/2024

ANALYTIKA, spol. s r. o.  
with registered office Khodlova 1297/47, 193 00 Praha 9 - Horní Počernice,  
Company Registration No. 14891883

for the Testing Laboratory No. 1624  
Radlík Testing Laboratory

Scope of accreditation:

Determination of nominal mass concentration of analytes in aqueous calibration solutions by primary analytical methods, emission spectrometry methods, ion chromatography, determination of pH and electrical conductivity, determination of molar concentration of strong acids and bases 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 Conformity Assessment 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.: 253/2021 of 03/05/2021, or any administrative acts building upon it.

The Certificate of Accreditation is valid until: 18/12/2029

Prague: 18/12/2024



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



**The Appendix is an integral part of  
Certificate of Accreditation No. 692/2024 of  
18/12/2024**

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

**ANALYTIKA, spol. s r. o.**  
CAB number 1624, Radlík Testing Laboratory  
Radlík 156, 254 01 Jílové u Prahy - Radlík

*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://www.analytika.net/zkusebni-laborator/> in the form of the „List of activities within the flexible 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	Titrimetric chelatometric (complexometric) determination of nominal mass concentration of Al, Bi, Ca, Cd, Ce, Co, Cu, Dy, Er, Eu, F <sup>-</sup> , Fe <sup>3+</sup> , Ga, Gd, Hf, Hg, Ho, In, La, Lu, Mg, Mn, Nd, Ni, Pb, Pr, Sc, Sm, Sn, Tb, Th, Tl, Tm, U, V, Y, Yb, Zn, Zr	SOP-L No. 1 (Vogel A. I.: A text-book of quantitative inorganic analysis: Including elementary instrumental analysis)	Aqueous single-element calibration solutions	-
2	Titrimetric argentometric determination of nominal mass concentration of Br <sup>-</sup> , Cl <sup>-</sup> , I <sup>-</sup>	SOP-L No. 2 (Vogel A. I.: A text-book of quantitative inorganic analysis: Including elementary instrumental analysis)	Aqueous single-element calibration solutions	-
3	Titrimetric alkalimetric determination of nominal mass concentration of B, NH <sub>4</sub> <sup>+</sup> and total organic carbon (TOC)	SOP-L No. 3 (Vogel A. I.: A text-book of quantitative inorganic analysis: Including elementary instrumental analysis)	Aqueous single-element calibration solutions	-
4	Titrimetric bromatometric determination of nominal mass concentration of Sb	SOP-L No. 4 (Vogel A. I.: A text-book of quantitative inorganic analysis: Including elementary instrumental analysis)	Aqueous single-element calibration solutions	-
5	Titrimetric manganometric determination of nominal mass concentration of Fe <sup>2+</sup> , NO <sub>2</sub> <sup>-</sup>	SOP-L No. 5 (Vogel A. I.: A text-book of quantitative inorganic analysis: Including elementary instrumental analysis)	Aqueous single-element calibration solutions	-
6	Gravimetric determination of nominal mass concentration of Ba in the form of BaCrO <sub>4</sub>	SOP-L No. 7 (Jílek A., Kořa J. Vážková analýza a elektroanalýza - Gravimetric analysis and electroanalysis)	Aqueous single-element calibration solutions	-

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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>
7	Gravimetric determination of nominal mass concentration of NO <sub>3</sub> <sup>-</sup> , Re, W by nitron	SOP-L No. 8 (Jílek A., Kořa J. Vážková analyza a elektroanalyza - Gravimetric analysis and electroanalysis)	Aqueous single-element calibration solutions	-
8	Gravimetric determination of nominal mass concentration of Ni, Pd by dimethylglyoxime	SOP-L No. 9 (Jílek A., Kořa J. Vážková analyza a elektroanalyza - Gravimetric analysis and electroanalysis)	Aqueous single-element calibration solutions	-
9	Gravimetric determination of nominal mass concentration of Mo by 8-hydroxyquinoline	SOP-L No. 10 (Jílek A., Kořa J. Vážková analyza a elektroanalyza - Gravimetric analysis and electroanalysis)	Aqueous single-element calibration solutions	-
10	Gravimetric determination of nominal mass concentration of Nb by cupferron	SOP-L No. 11 (Jílek A., Kořa J. Vážková analyza a elektroanalyza - Gravimetric analysis and electroanalysis)	Aqueous single-element calibration solutions	-
11	Gravimetric determination of nominal mass concentration of Be, Ta, Ti by hydrolysis with aqueous ammonia solution	SOP-L No. 12 (Jílek A., Kořa J. Vážková analyza a elektroanalyza - Gravimetric analysis and electroanalysis)	Aqueous single-element calibration solutions	-
12	Gravimetric determination of nominal mass concentration of Au by hydroquinone reduction	SOP-L No. 13 (Jílek A., Kořa J. Vážková analyza a elektroanalyza - Gravimetric analysis and electroanalysis)	Aqueous single-element calibration solutions	-
13	Gravimetric determination of nominal mass concentration of Sr by ammonium oxalate in the form of SrO	SOP-L No. 14 (Jílek A., Kořa J. Vážková analyza a elektroanalyza - Gravimetric analysis and electroanalysis)	Aqueous single-element calibration solutions	-
14	Titrimetric iodometric determination of nominal mass concentration of Se, Cr (VI)	SOP-L No. 15 (Jílek A., Kořa J. Vážková analyza a elektroanalyza - Gravimetric analysis and electroanalysis)	Aqueous single-element calibration solutions	-

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15	Gravimetric determination of nominal mass concentration of Ag in the form of AgCl	SOP-L No. 16 (Jílek A., Kořa J. Vážková analyza a elektroanalyza - Gravimetric analysis and electroanalysis)	Aqueous single-element calibration solutions	-
16	Gravimetric determination of nominal mass concentration of S, SO <sub>4</sub> <sup>2-</sup> in the form of BaSO <sub>4</sub>	SOP-L No. 17 (Jílek A., Kořa J. Vážková analyza a elektroanalyza - Gravimetric analysis and electroanalysis)	Aqueous single-element calibration solutions	-
17	Determination of pH by potentiometry	SOP-L No. 18 (ČSN ISO 10523)	Standard solutions prepared from drinking and deionized water	-
18	Determination of electrical conductivity	SOP-L No. 19 (ČSN EN 27888)	Standard solutions prepared from drinking and deionized water	-
19	Gravimetric determination of nominal mass concentration of platinum by mercury(I) chloride reduction	SOP-L No. 20 (ČSN EN ISO 11489)	Aqueous single-element calibration solutions	-
20	Gravimetric determination of nominal mass concentration of arsenic, phosphorus and phosphate in the form of magnesium pyroarsenate and pyrophosphate (Mg <sub>2</sub> As <sub>2</sub> O <sub>7</sub> and Mg <sub>2</sub> P <sub>2</sub> O <sub>7</sub> )	SOP-L No. 21 (Jílek A., Kořa J. Vážková analyza a elektroanalyza - Gravimetric analysis and electroanalysis)	Aqueous single-element calibration solutions	-
21	Gravimetric determination of nominal mass concentration of silicon in the form of SiO <sub>2</sub>	SOP-L No. 22 (Jílek A., Kořa J. Vážková analyza a elektroanalyza - Gravimetric analysis and electroanalysis)	Aqueous single-element calibration solutions	-
22	Determination of nominal mass concentration Ag, Al, As, Au, B, Ba, Be, Bi, Ca, Cd, Co, Cr, Cu, Fe, Ir, K, Li, Mg, Mn, Mo, Na, Ni, P, Pb, Rh, Sb, Se, Sr, Sn, Te, Ti, Tl, V, Zn by ICP-OES method	SOP-L No. 29 (Operating manual iCAP PRO XP)	Aqueous single-element and multi-element calibration solutions	B, D

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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>
23	Determination of nominal mass concentration As, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, Mn, Mo, Ni, P, Pb, Sb, Sn, V, Zn by ICP-OES method	SOP-L No. 30 (Operating manual iCAP PRO XP)	Aqueous and aqua-regia extracts of soils and sludges	-
24	Determination of the nominal mass concentration of Br <sup>-</sup> , Cl <sup>-</sup> , F <sup>-</sup> , NO <sub>2</sub> <sup>-</sup> , NO <sub>3</sub> <sup>-</sup> , PO <sub>4</sub> <sup>3-</sup> , SO <sub>4</sub> <sup>2-</sup> anions by ion chromatography with conductivity detection	SOP-L No. 31 (Dionex Integrion HPIC System Operator's Manual)	Aqueous single-element and multi-element calibration solutions	-
25	Volumetric determination of molar concentration	SOP-L No. 33 (Vogel A. I., Vogel's Textbook of Quantitative Chemical Analysis)	Strong acids and bases	-

<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.

Explanations:

ICP-OES – Inductively Coupled Plasma Optical Emission Spectrometry

HPIC – High Pressure Ion Chromatography

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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."*