

**The Appendix is an integral part of  
Certificate of Accreditation No. 524/2023 of 06/10/2023**

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

**AL INVEST Břidličná, a.s.**  
CAB number 1407, Chemical Laboratory  
Bruntálská 167, 793 51 Břidličná

*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>	Subject of the test	Degrees of freedom <sup>3</sup>
1	Determination of the content of elements by ICP-OES method	SOP 001 (ČSN EN ISO 11885)	Drinking, surface, ground and waste water	-
2	Determination of the content of elements by ICP-OES method	SOP 002 (ČSN EN 14242)	Aluminium alloys, input raw materials	-
3	Determination of nitrate nitrogen spectrophotometrically by Hach Lange commercial analytical kit and nitrates by calculation from measured values	SOP 072 (ČSN 75 7455; Hach Lange manual)	Drinking, surface, ground and waste water	-
4	Determination of pH by potentiometry	SOP 030 (ČSN ISO 10523)	Drinking, surface, ground and waste water	-
5	Determination of electrical conductivity	SOP 031 (ČSN EN 27888)	Drinking, surface, ground and waste water	-
6	Determination of phosphate by spectrophotometry and total phosphorus by calculation from measured values	SOP 033 (ČSN EN ISO 6878)	Drinking, surface, waste water	-
7	Determination of ammonium by spectrophotometry and ammonia nitrogen by calculation from measured values	SOP 034 (ČSN ISO 7150-1)	Drinking, surface, ground and waste water	-
8	Determination of hydrocarbons C <sub>10</sub> -C <sub>40</sub> by GC-FID method	SOP 010 (ČSN EN ISO 9377-2)	Drinking, surface, waste water	-
9	Determination of nonpolar extractives (NES) by FTIR spectrometry	SOP 038 (ČSN 75 7505:1998)	Drinking, surface, ground and waste water	-
10	Determination of dried (RL105) and annealed (RAS) dissolved solids by gravimetry	SOP 039 (ČSN 75 7346; ČSN 75 7347)	Drinking, surface, waste water	-
11	Determination of biochemical oxygen demand after 5 days (BOD <sub>5</sub> ) by dilution method, optical probe measurement	SOP 008 (ČSN EN ISO 5815-1)	Drinking, surface, waste water	-
12	Determination of suspended solids (NL) by gravimetry	SOP 039 A (ČSN EN 872)	Drinking, surface, waste water	-
13	Determination of chloride by argentometry	SOP 044 (ČSN ISO 9297)	Drinking, surface, ground and waste water	-

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Ordinal number <sup>1</sup>	Test procedure / method name	Test procedure / method identification <sup>2</sup>	Subject of the test	Degrees of freedom <sup>3</sup>
14	Determination of chemical oxygen demand with dichromate (COD <sub>Cr</sub> ) by semimicromethod by spectrophotometry using Merck commercial analytical kit	SOP 047 (ČSN ISO 6060; Merck manual)	Drinking, surface, ground and waste water	-
15	Determination of anionic surfactants (PAL) by spectrophotometry by Hach Lange commercial analytical kit	SOP 073 (ČSN EN 903; Hach Lange manual)	Drinking, surface, waste water	-
16	Determination of nitrite by spectrophotometry and nitrite nitrogen by calculation from measured values	SOP 049 (ČSN EN 26777)	Drinking, surface, waste water	-
17	Determination of adsorbable organically bound halogens (AOX) by coulometry	SOP 053 (ČSN EN ISO 9562)	Drinking, surface, waste water	-
18	Determination of volatile organic compounds by HS/GC-FID	SOP 054 M1 (ČSN EN 13628-2)	Organic solvents, paints, varnishes, adhesives and residual solvents on the surface of aluminium foils	-
19	Determination of Viscosity	SOP 022 (ČSN EN ISO 3104:1998)	Hydraulic, rolling, bearing and compressor oils	-
20	Determination of sulphate (SO <sub>4</sub> <sup>2-</sup> ) by spectrophotometry by Hach Lange commercial analytical kit	SOP 074 (Hach Lange manual)	Drinking, surface, ground and waste water	-
21	Determination of mercury (Hg) and hydride-forming elements (As, Sb, Se) by ICP-OES method with GLS	SOP 076 (ČSN EN ISO 11885; GLS manual)	Drinking, surface, ground and 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 edition of the specified procedure is used (including any changes)

<sup>3</sup> the laboratory does not apply a flexible approach to the scope of accreditation

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**Specification of the scope of accreditation:**

Ordinal test number	Detailed information on activities within the scope of accreditation (determined analytes)
1	Na, K, Ca, Mg, Al, Fe, Zn, Mn, Pb, Cr <sub>celk.</sub> , Ni, V, Cu, Co, Ba, Cd, Be, P <sub>celk</sub>
2	Fe, Mg, Mn, Cu, Si, Cr <sub>celk.</sub> , Ni, Ti, Zn, Ca, Ag, Ba, Be, Cd, Li, Na, Pb, Sb, Sn, V, Zr
3	ethanol, acetone, isopropanol, 1-propanol, 2-butanone, 2-butanol, ethylacetate, t-butanol, isopropylacetate, 1-methoxy-2-propanol, propylacetate, 1-ethoxy-2-propanol, isobutylacetate, toluene, benzene, ethylbenzene, n-butylacetate, methoxypropylacetate, isooctane, xylenes

Explanations:

SOP	- Standard Operating Procedure
HS	- head space
ICP-OES	- Inductively Coupled Plasma Optical Emission Spectrometer
FTIR	- Fourier Transform Infrared Spectrometer
GC-FID	- Gas Chromatography with Flame Ionization Detector
AOX	- Halogenated Organic Compounds
GLS	- Gas Liquid Separator, hydride generation equipment