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**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. **545/2025**

**Vodárna Zlín a.s.**  
**with registered office třída Tomáše Bati 383, Louky, 763 02 Zlín**  
**Company Registration No. 14237083**

for the Testing Laboratory No. **1781**  
Water Quality Control Department

Scope of accreditation:

Sampling of water, sludge and waste, chemical analysis of water and sludge, microbiological, biological and sensory analysis 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.: 513/2022 of 31/10/2022, and/or any administrative acts building upon it.

The Certificate of Accreditation is valid until: **24/10/2030**

Prague: 24/10/2025



Signed in the Czech original:  
Gor Petrosjan on 24/10/2025

**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. 545/2025 of 24/10/2025**

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

**Vodárna Zlín a.s.**  
CAB number 1781, Water Quality Control Department  
ÚV Klečůvka, 763 11 Želechovice nad Dřevnicí

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

**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>
<b>1</b>	<b>Basic chemistry</b>			
1.1	Electrometric determination of pH	S-01 (ČSN ISO 10523)	Drinking (including raw, process water from WTP), hot, ground, surface, bottled and waste water, bathing water, liquid sludge	-
1.2	Determination of iron by spectrophotometry	S-02 (ČSN ISO 6332)	Drinking (including raw, process water from WTP), ground, surface and bottled water	-
1.3	Determination of nitrate by spectrophotometry	S-03 (Standard Methods for the Examination of Water and Wastewater, 14th Issue American Public Health Association, Washington 1975)	Drinking (including raw water), ground, surface and bottled water, bathing water	-
1.4	Determination of acid neutralizing capacity (ANC) by titration	S-04 (ČSN EN ISO 9963-1)	Drinking (including raw water), ground, surface and bottled water	-
1.5	Determination of base neutralizing capacity (BNC) by titrimetry and of free CO <sub>2</sub> by calculation from measured values	S-05 (ČSN 75 7372)	Drinking (including raw water), ground, surface and bottled water	-
1.6	Determination of nitrite by spectrophotometry and nitrite nitrogen by calculation from measured values	S-06 (ČSN EN 26777)	Drinking (including raw, process water from WTP), ground, surface, bottled and waste water	-
1.7	Determination of ammonium by spectrophotometry ammonia nitrogen by calculation from measured values	S-07 (ČSN ISO 7150-1)	Drinking (including raw, process water from WTP), ground, surface, bottled and waste water	-
1.8	Determination of conductivity	S-08 (ČSN EN 27888)	Drinking (including raw water), ground, surface and bottled 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>
1.9	Determination of hardness by titration and magnesium by calculation from measured values	S-09 (ČSN ISO 6059)	Drinking (including raw water), ground, surface and bottled water	-
1.10	Determination of calcium by titration	S-10 (ČSN ISO 6058)	Drinking (including raw water), ground, surface and bottled water	-
1.11	Titrimetric determination of chemical oxygen demand using permanganate (COD <sub>Mn</sub> ) by titration	S-11 (ČSN EN ISO 8467)	Drinking (including raw water), hot, ground, surface and bottled water	-
1.12	Determination of absorbance by spectrophotometry	S-12 (ČSN 75 7360)	Drinking (including raw water), ground, surface and bottled water	-
1.13	Determination of turbidity by nephelometry	S-13 (ČSN EN ISO 7027-1; HACH manual)	Drinking (including raw, process water from WTP), hot, ground, surface and bottled water, bathing water	-
1.14	Determination of manganese by spectrophotometry	S-14 (ČSN ISO 6333)	Drinking (including raw, process water from WTP), ground, surface and bottled water	-
1.15	Determination of aluminium by spectrophotometry	S-15 (ČSN ISO 10566)	Drinking (including raw, process water from WTP), ground, surface and bottled water	-
1.16	Determination of odour and flavour by sensory analysis	S-16 (ČSN 75 7340)	Drinking (including raw water), hot, ground, surface and bottled water	-
1.17	Determination of humic substances by spectrophotometry	S-18 (ČSN 75 7536)	Drinking (including raw water), ground and surface water	-
1.18	Determination of total cyanide by spectrophotometry with MERCK set	S-19 (ČSN 75 7415; MERCK manual)	Drinking, ground, surface water and bottled water	-
1.19	Determination of total organic carbon (TOC) by infrared spectrometry method	S-20 (ČSN EN 1484)	Drinking (including raw water), hot, ground, surface, bottled and waste water, bathing 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>
1.20	Determination of colour by spectrophotometry	S-21 (ČSN EN ISO 7887)	Drinking (including raw water), hot, ground, surface and bottled water	-
1.21*	Determination of dissolved oxygen by electrochemical probe method	S-22 (ČSN EN ISO 5814)	Drinking (including raw water), ground, surface and waste water, liquid sludge	-
1.22*	Determination of dissolved oxygen by optical probe method	S-23 (ČSN ISO 17289)	Drinking (including raw water), ground, surface and waste water	-
1.23*	Determination of free and total chlorine by spectrophotometry using HACH set and bound chlorine by calculation from measured values	S-24 (ČSN EN ISO 7393-2; HACH manual)	Drinking, hot, bathing water	-
1.24*	Determination of temperature	S-25 (ČSN 75 7342)	Drinking (including raw water), hot, ground, surface, bottled and waste water, bathing water, liquid sludge	-
1.25	Determination of nitrate nitrogen by spectrophotometry and nitrates by calculation from measured values	S-26 (ČSN ISO 7890-3)	Drinking (including raw water), ground, surface and waste water	-
1.26	Determination of dissolved solids, dissolved inorganic salts by gravimetry and loss on ignition of dissolved solids by calculation from measured values	S-27 (ČSN 75 7346; ČSN 75 7347)	Raw and waste water, liquid sludge	-
1.27	Determination of ammonia nitrogen by titration after distillation, ammonium and inorganic nitrogen by calculation from measured values	S-28 (ČSN ISO 5664)	Raw, ground, surface and waste water, liquid sludge	-

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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>
1.28	Determination of total phosphorus by spectrophotometry with MERCK set	S-29 (ČSN EN ISO 6878; MERCK manual)	Raw, ground, surface and waste water, liquid sludge	-
1.29	Determination of anionic surfactants by spectrophotometry using HACH set	S-30 (HACH manual; ČSN EN 903)	Raw, ground, surface, bottled and waste water	-
1.30	Determination of biochemical oxygen demand after n days (BOD <sub>n</sub> ) by electrochemical probe method	S-31 (ČSN EN ISO 5815-1; ČSN EN 1899-2; ČSN EN ISO 5814)	Drinking (including raw water), ground, surface and waste water, liquid sludge	-
1.31	Determination of biochemical oxygen demand after n days (BOD <sub>n</sub> ) by optical probe method	S-32 (ČSN EN ISO 5815-1; ČSN EN 1899-2; ČSN ISO 17289)	Drinking (including raw water), ground, surface and waste water	-
1.32	Determination of suspended solids by gravimetry	S-33 (ČSN EN 872)	Drinking (including raw water), ground, surface and waste water, liquid sludge	-
1.33	Determination of total solids and loss on ignition of total solids by gravimetry	S-34 (ČSN EN 12880)	Raw, ground, surface and waste water, liquid sludge	-
1.34	Determination of total solids and loss on ignition of total solids by gravimetry	S-35 (ČSN EN 12880)	Dewatered sludge	-
1.35	Determination of fats and oils by gravimetry	S-36 (ČSN 75 7509)	Waste water	-
1.36	Determination of chemical oxygen demand using dichromate (COD <sub>Cr</sub> ) by spectrophotometry with HACH set	S-37 (ČSN ISO 15705; HACH manual)	Raw, ground, surface and waste water, liquid sludge	-

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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>
1.37	Determination of total nitrogen by spectrophotometry using HACH set and organic nitrogen by calculation from measured values	S-38 (HACH manual)	Raw, ground, surface and waste water, liquid sludge	-
<b>2</b>	<b>Microbiology</b>			
2.1	Detection and enumeration of thermotolerant coliform bacteria and <i>Escherichia coli</i> by membrane filtration method	S-39 (ČSN 75 7835)	Drinking, ground, surface, bathing water	-
2.2	Detection and enumeration of intestinal enterococci by membrane filtration method	S-40 (ČSN EN ISO 7899-2)	Drinking, ground, surface, bottled water	-
2.3	Enumeration of culturable microorganisms at 22 °C and 36 °C by direct inoculation method	S-41 (ČSN EN ISO 6222)	Drinking, hot, ground, surface and bottled, bathing water	-
2.4	Determination of abioseston by microscopic method	S-42 (ČSN 75 7713)	Drinking, ground and surface water	-
2.5	Determination of bioseston by microscopic method	S-43 (ČSN 75 7712)	Drinking, ground and surface, bottled water	-
2.6	Detection and enumeration of <i>Pseudomonas aeruginosa</i> by membrane filtration method	S-44 (ČSN EN ISO 16266)	Drinking, ground, surface, bottled and bathing water	-
2.7	Detection and enumeration of <i>Clostridium perfringens</i> , by membrane filtration method	S-45 (ČSN EN ISO 14189)	Drinking, ground, surface and bottled water	-
2.8	Enumeration of <i>Staphylococcus aureus</i> by membrane filtration method	S-46 (ČSN EN ISO 6888-1)	Drinking, hot, ground, surface, bathing 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>
2.9	Detection and enumeration of <i>Legionella</i> by membrane filtration method	S-48 (ČSN EN ISO 11731)	Drinking, hot, ground and surface, bathing water	-
2.10	Detection and enumeration of coliform bacteria and <i>Escherichia coli</i> by membrane filtration method	S-49 (ČSN EN ISO 9308-1)	Drinking, hot, ground, surface and bottled, bathing 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> the laboratory does not apply a flexible approach to the scope of accreditation

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**Sampling:**

Ordinal number	Sampling procedure name	Sampling procedure identification <sup>1</sup>	Subject of sampling
1	Drinking water sampling	S-301 (ČSN EN ISO 5667-1; ČSN EN ISO 5667-3; ČSN ISO 5667-5; ČSN EN ISO 5667-14; ČSN ISO 5667-21; ČSN EN ISO 19458)	Drinking, raw, process, hot water
2	Sampling of ground water (static, dynamic)	S-302 (ČSN EN ISO 5667-1; ČSN EN ISO 5667-3; ČSN ISO 5667-11; ČSN EN ISO 5667-14; ČSN EN ISO 19458)	Ground water
3	Sampling of surface water	S-303 (ČSN EN ISO 5667-1; ČSN EN ISO 5667-3; ČSN ISO 5667-4; ČSN EN ISO 5667-6; ČSN EN ISO 5667-14; ČSN EN ISO 19458)	Surface water
4	Sampling of waste water (manual sampling and sampling using an automatic sampler)	S-304 (ČSN EN ISO 5667-1; ČSN EN ISO 5667-3; ČSN ISO 5667-10; ČSN EN ISO 5667-14; ČSN EN ISO 19458)	Waste water
5	Sampling of sludge and waste	S-305 (ČSN EN 14899, ČSN EN ISO 5667-1; ČSN EN ISO 5667-3; ČSN EN ISO 5667-13; ČSN EN ISO 5667-14; ČSN EN ISO 5667-15; ČSN EN ISO 19458)	Liquid and dewatered sludge, liquid and solid waste, biowaste



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Ordinal number	Sampling procedure name	Sampling procedure identification <sup>1</sup>	Subject of sampling
6	Sampling of bathing water	S-306 (Regulation No. 238/2011 Coll.; ČSN EN ISO 5667-1; ČSN EN ISO 5667-3; ČSN ISO 5667-4; ČSN EN ISO 5667-6; ČSN EN ISO 5667-14; ČSN EN ISO 19458)	Bathing water

<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)

Explanatory notes:

Liquid sludge	liquid sample of sludge containing usually less than 50 g of dry matter per kilogram of sludge
S-XX	standard operating procedure prepared on the basis of valid standards, technical literature and firm manuals
WTP	Water Treatment Plant
Bioseston	Number of organisms, living and dead
Abioseston	Non-living organic and inorganic particles

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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."*