

**The Appendix is an integral part of  
Certificate of Accreditation No. 182/2023 of 13/04/2023**

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

**EKO-LAB Žamberk spol. s r.o.**  
CAB number 1254, Testing Laboratory  
Zemědělská 1004, 564 01 Žamberk

*The laboratory provides opinions and interpretations of test results.*

*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 absorbance   | SOP 543<br>(ČSN 75 7360)                            | Drinking, bottled, raw, produced, surface, ground water, bathing water        | -                               |
| 2                           | Determination of turbidity by nephelometry  | SOP 552<br>(ČSN EN ISO 7027-1)                      | Drinking, bottled, raw, produced, ground water, bathing water                 | -                               |
| 3                           | Determination of total nitrogen method using oxidative digestion with peroxodisulfate   | SOP 520<br>(ČSN EN ISO 11905-1)                     | Drinking, bottled, raw, produced, surface, waste, ground water, bathing water | -                               |
| 4                           | Determination of nitrate and N-NO <sub>3</sub> <sup>-</sup> by calculation from measured values spectrometric method using sulfosalicylic acid                    | SOP 507<br>(ČSN ISO 7890-3)                         | Drinking, bottled, raw, produced, surface, waste, ground water, bathing water | -                               |
| 5                           | Determination of nitrites, N-NO <sub>2</sub> <sup>-</sup> and N <sub>inorg.</sub> by calculation from measured values manual absorption spectrophotometric method | SOP 508<br>(ČSN EN 26777)                           | Drinking, bottled, raw, produced, surface, waste, ground water, bathing water | -                               |
| 6                           | Determination of ammonium and N-NH <sub>4</sub> <sup>+</sup> by calculation from measured values manual spectrometric method.                                     | SOP 509<br>(ČSN ISO 7150-1)                         | Drinking, bottled, raw, produced, surface, waste, ground water, bathing water | -                               |
| 7                           | Determination of electrical conductivity  | SOP 510<br>(ČSN EN 27888)                           | Drinking, bottled, raw, produced, surface, waste, ground water, bathing water | -                               |
| 8                           | Determination of chemical oxygen demand with permanganate (COD <sub>Mn</sub> ) by titration   | SOP 549<br>(ČSN EN ISO 8467)                        | Drinking, bottled, raw, produced, surface, ground water, bathing 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> |
|-----------------------------|--|--|--|---------------------------------|
| 9                           | Determination of chloride silver nitrate titration with chromate indicator (Mohr's method)   | SOP 512<br>(ČSN ISO 9297)  | Drinking, bottled, raw, produced, surface, waste, ground water, bathing water  | -                               |
| 10                          | Determination of sulphate and nitrate by isotachophoretic method   | SOP 513<br>(ÚRVJT method)  | Drinking, bottled, raw, produced, surface, waste, ground water, bathing water  | -                               |
| 11*                         | Determination of free and total chlorine by HACH set and bound chlorine by calculation from measured values                          | SOP 542<br>( HACH set manual)  | Drinking, bottled, raw, produced, ground water, bathing water  | -                               |
| 12                          | Determination of phosphorus. Ammonium molybdate spectrophotometric method  | SOP 518<br>(ČSN EN ISO 6878)   | Drinking, bottled, raw, produced, surface, waste, ground water, bathing water  | -                               |
| 13                          | Determination of total mercury by single-purpose atomic absorption spectrometer  | SOP 519<br>(ČSN 75 7440;<br>ČSN 46 5735;<br>MoE Regulation No. 153/2016 Coll.;<br>MoE Regulation No. 273/2021 Coll.) | Drinking, bottled, raw, produced, surface, waste, ground water, bathing water, food industry products raw materials, vegetable material, sludge, soil, sediments, feedstuffs, fodder raw materials, waste, industrial compost, barnyard manure | -                               |
| 14                          | Determination of biochemical oxygen demand after n days (BOD <sub>n</sub> ). Dilution and seeding method with allylthiourea addition | SOP 553<br>(ČSN EN ISO 5815-1)   | Drinking, bottled, raw, produced, surface, waste, ground water, bathing water  | -                               |
| 15                          | Determination of chemical oxygen demand using (COD-Cr) by test-tube method   | SOP 521<br>(ČSN ISO 15705)   | Drinking, bottled, raw, produced, surface, waste, ground water, bathing water  | -                               |
| 16*                         | Determination of pH by potentiometry   | SOP 522<br>(ČSN ISO 10523)   | Drinking, bottled, raw, produced, surface, waste, ground water, bathing water  | -                               |
| 17                          | Gravimetric determination of suspended solids  | SOP 523<br>(ČSN EN 872;<br>ČSN 75 7350)  | Drinking, bottled, raw, produced, surface, waste, ground water, bathing water  | -                               |

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|-----------------------------|---|---|---|---------------------------------|
| 18                          | Determination of dissolved oxygen by membrane probe   | SOP 530<br>(ČSN EN ISO 5814)                        | Drinking, bottled, raw, produced, surface, waste, ground water, bathing water | -                               |
| 19                          | Gravimetric determination of dissolved solids and dissolved inorganic salts (DIS)               | SOP 525<br>(ČSN 75 7346;<br>ČSN 75 7347)            | Drinking, bottled, raw, produced, surface, waste, ground water, bathing water | -                               |
| 20                          | Determination of nonpolar extractives by infrared spectrometry method (NEL <sub>IR</sub> )      | SOP 526<br>(ČSN 75 7505)                            | Drinking, bottled, raw, produced, surface, waste, ground water, bathing water | -                               |
| 21                          | Determination of extractives by infrared spectrometry method (EL <sub>IR</sub> )                | SOP 527<br>(ČSN 75 7506)                            | Drinking, bottled, raw, produced, surface, waste, ground water, bathing water | -                               |
| 22*                         | Determination of temperature  | SOP 550<br>(ČSN 75 7342)                            | Drinking, bottled, raw, produced, surface, waste, ground water, bathing water | -                               |
| 23*                         | Preliminary sensory analysis of water (odour, flavour, colour)                                  | SOP 551<br>(ČSN EN ISO 7887;<br>ČSN 75 7340)        | Drinking, bottled, raw, produced, surface, ground water, bathing water        | -                               |
| 24*                         | Determination of redox potential  | SOP 557<br>(ČSN 75 7367)                            | Drinking, bottled, raw, produced, surface, waste, ground water, bathing water | -                               |
| 25                          | Determination of dissolved oxygen by iodometry  | SOP 531<br>(ČSN EN 25813)                           | Drinking, bottled, raw, produced, surface, waste, ground water, bathing water | -                               |
| 26                          | Determination of acid neutralizing capacity (ANC) by titration                                  | SOP 532<br>(ČSN EN ISO 9963-1)                      | Drinking, bottled, raw, produced, surface, waste, ground water, bathing water | -                               |
| 27                          | Determination of basic neutralizing capacity (BNC)  | SOP 533<br>(ČSN 75 7372)                            | Drinking, bottled, raw, produced, surface, waste, ground water, bathing water | -                               |
| 28                          | Determination of hydrocarbons C <sub>10</sub> to C <sub>40</sub> by gas chromatography (GC/FID) | SOP 528<br>(ČSN EN ISO 9377-2)                      | Drinking, waste, ground water, bathing water                                  | -                               |
| 29                          | Determination of chromium (VI) by spectrophotometric method with 1,5-Diphenylcarbazine          | SOP 540<br>(ČSN ISO 11083)                          | Surface 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> |
|-----------------------------|--|--|---|---------------------------------|
| 30                          | Determination of elements by ICP-OES method and the sum of (Ca+Mg) by calculation from measured values | SOP 536<br>(ČSN EN ISO 11885;<br>ČSN EN ISO 15587-1;<br>ČSN EN ISO 15587-2)  | Drinking, bottled, raw, produced, surface, waste, ground water, bathing water   | -                               |
| 31                          | Determination of elements by ICP-OES method  | SOP 536A<br>( ČSN EN 13805;<br>ČSN EN 15621;<br>ČSN EN 15510)  | Feedstuffs, fodder raw materials, vegetable materials, barnyard manure, BPS products, food supplements                                  | -                               |
| 32                          | Determination of elements by ICP-OES method  | SOP 536C<br>(JPP-ÚKZÚZ, Brno;<br>ČSN 46 5735;<br>ČSN EN ISO 11885;<br>ČSN EN 13657;<br>MoA Regulation<br>No. 309/2021 Coll.) | Mehlich III extract, aqua regia extract, 2M HNO <sup>3</sup> extract, aqueous extract, sludge, sediment, industrial composts, waste     | -                               |
| 33                          | Determination of sugar content of sugar beet by polarimetry  | SOP 124<br>(ČSN 46 2110)   | Sugar beet  | -                               |
| 34                          | Determination of nitrogen by LECO analyser   | SOP 120<br>(LECO method)   | Feedstuffs, fodder raw materials, vegetable materials, food, soil, sludge, sediments, industrial compost, barnyard manure, BPS products | -                               |
| 35                          | Determination of Kjeldahl nitrogen   | SOP 100-4<br>(ČSN 46 7092-4;<br>ČSN EN 13342;<br>ČSN ISO 11261;<br>ČSN 46 5735;<br>MoA Regulation<br>No. 309/2021 Coll.)     | Feedstuffs, fodder raw materials, vegetable materials, food, soil, sludge, sediments, industrial compost, barnyard manure, BPS products | -                               |
| 36                          | Determination of pH by potentiometry   | SOP 250<br>(ČSN EN ISO 10390;<br>ČSN 46 5735;<br>MoA Regulation<br>No. 309/2021 Coll.)                                       | Calcium chloride extract, potassium chloride extract, aqueous extract, barnyard manure, industrial composts, sludge, BPS products       | -                               |
| 37                          | Determination of ammonia nitrogen by spectrophotometry   | SOP 251<br>(JPP ÚKZÚZ Brno)  | Soils, sludge   | -                               |
| 38                          | Determination of nitrate nitrogen by ISE   | SOP 252<br>(JPP ÚKZÚZ Brno)  | Soils, sludge   | -                               |
| 39                          | Determination of dry matter and annealing residue by gravimetry, water content and loss by ignition    | SOP 100-3<br>(ČSN 46 7092-3;<br>ČSN 46 7092-9;<br>ČSN EN 12880;<br>ČSN 46 5735;  | Feedstuffs, fodder raw materials, vegetable materials, food, soil, sludge, sediments, industrial  | -                               |

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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> |
|-----------------------------|---|---|---|---------------------------------|
|                             | (combustible matter) by calculation from measured values  | ČSN EN 15934;<br>ČSN EN 15935;<br>MoA Regulation<br>No. 309/2021 Coll.) | compost, barnyard manure, waste, BPS products                                 |                                 |
| 40                          | Determination of fibre content by gravimetry  | SOP 100-20<br>(ČSN ISO 6541)  | Feedstuffs, vegetable material, food  | -                               |
| 41                          | Determination of starch content by polarimetry.   | SOP 100-21<br>(ČSN 46 7092-21)  | Feedstuffs, vegetable material, food  | -                               |
| 42                          | Determination of saccharide content by titration  | SOP 100-22<br>(ČSN 46 7092-22)  | Feedstuffs, vegetable material, food  | -                               |
| 43                          | Determination of fat content by gravimetry  | SOP 100-7<br>(ČSN 46 7092-7)  | Feedstuffs, vegetable material, food  | -                               |
| 44                          | Determination of vitamin A, E content by HPLC/UV method   | SOP 150<br>(ÚKZÚZ Brno bulletin, part 3, procedure 12.1)                | Feedstuffs and food supplements   | -                               |
| 45                          | Determination of organic acids by ITP method  | SOP 102<br>(ČSN 46 7092-42)   | Feedstuffs, biodegradable waste, BPS products                                 | -                               |
| 46                          | Titrimetric determination of the content of volatile organic acids (FOS) and total inorganic carbon (TAC)               | SOP 117<br>( Hach-Lange method)   | BPS products  | -                               |
| 47                          | Detection and enumeration of coliform bacteria and <i>Escherichia coli</i> by Colilert-18/Quanti-Tray method            | SOP 643<br>(ČSN EN ISO 9308-2)  | Drinking, bottled, raw, produced, surface, waste, ground water, bathing water | -                               |
| 48                          | Enumeration of <i>Escherichia coli</i> and coliform bacteria by membrane filtration method                              | SOP 607<br>(ČSN EN ISO 9308-1)  | Drinking, bottled, raw, produced, surface, ground water, bathing water        | -                               |
| 49                          | Detection and enumeration of thermotolerant coliform bacteria and <i>Escherichia coli</i> by membrane filtration method | SOP 602<br>(ČSN 75 7835)  | Drinking, bottled, raw, produced, surface, waste, ground water                | -                               |
| 50                          | Detection and enumeration of intestinal enterococci by membrane filtration method                                       | SOP 603<br>(ČSN EN ISO 7899-2)  | Drinking, bottled, raw, produced, surface, waste, ground water, bathing water | -                               |
| 51                          | Detection and enumeration of <i>Pseudomonas aeruginosa</i> by membrane filtration method                                | SOP 609<br>(ČSN EN ISO 16266)   | Drinking, bottled, raw, produced, bathing water                               | -                               |

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|-----------------------------|--|---|--|---------------------------------|
| 52                          | Enumeration of coagulase-positive staphylococci by membrane filtration method            | SOP 619<br>(ČSN EN ISO 6888-1)                              | Drinking, bottled, raw, produced, surface, waste, ground water, bathing water        | -                               |
| 53                          | Enumeration of <i>Clostridium perfringens</i> by membrane filtration method              | SOP 618<br>(MoH Regulation No. 252/2004 Coll., Annex No. 6) | Drinking, bottled, raw, produced, surface, waste, ground water, bathing water        | -                               |
| 54                          | Enumeration of <i>Clostridium perfringens</i> by membrane filtration method              | SOP 620<br>(ČSN EN ISO 14189)                               | Drinking, bottled, raw, produced, surface, waste, ground water, bathing water        | -                               |
| 55                          | Enumeration of culturable microorganisms at 22 °C and 36 °C by direct inoculation method | SOP 611<br>(ČSN EN ISO 6222)                                | Drinking, bottled, raw, produced, surface, waste, ground water, bathing water        | -                               |
| 56                          | Detection and enumeration of <i>Legionella spp</i> membrane filtration method            | SOP 624<br>(ČSN EN ISO 11731)                               | Drinking, bathing water  | -                               |
| 57                          | Detection of <i>Salmonella spp</i> by direct inoculation method                          | SOP 621<br>(ČSN ISO 19250)                                  | Drinking, bottled, raw, produced, surface, waste, ground water, bathing water        | -                               |
| 58                          | Determination of abioseston by microscopic method  | SOP 660<br>(ČSN 75 7713)                                    | Drinking, bottled, raw, produced, surface, ground water, bathing water               | -                               |
| 59                          | Determination of bioseston by microscopic method   | SOP 661<br>(ČSN 75 7712)                                    | Drinking, bottled, raw, produced, surface, ground water, bathing water               | -                               |
| 60                          | Enumeration of total microorganisms at 30 °C by direct inoculation method                | SOP 631<br>(ČSN EN ISO 4833-1)                              | Food industry products and raw materials, feedstuffs and fodder raw materials, swabs | -                               |
| 61                          | Enumeration of coliforms by direct inoculation method                                    | SOP 632<br>(ČSN ISO 4832)                                   | Food industry products and raw materials, feedstuffs and fodder raw materials, swabs | -                               |
| 62                          | Enumeration of <i>Staphylococcus aureus</i> by direct inoculation method                 | SOP 635<br>(ČSN EN ISO 6888-1)                              | Food industry products and raw materials, feedstuffs and fodder raw materials, swabs | -                               |
| 63                          | Enumeration of <i>Escherichia coli</i> by direct inoculation method                      | SOP 633<br>(ČSN ISO 16649-2)                                | Food industry products and raw materials, feedstuffs and fodder raw materials, swabs | --                              |

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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> |
|-----------------------------|---|--|--|---------------------------------|
| 64                          | Enumeration of yeasts and moulds by direct inoculation method   | SOP 638<br>(ČSN ISO 21527-1;<br>ČSN ISO 21527-2)                     | Food industry products and raw materials, feedstuffs and fodder raw materials, swabs | -                               |
| 65                          | Enumeration of <i>Clostridium perfringens</i> by direct inoculation method                                | SOP 637<br>(ČSN EN ISO 7937)   | Food industry products and raw materials, feedstuffs and fodder raw materials, swabs | -                               |
| 66                          | Detection and enumeration of <i>Enterobacteriaceae</i> without resuscitation by direct inoculation method | SOP 634<br>(ČSN EN ISO 21528-2)                                      | Food industry products and raw materials, feedstuffs and fodder raw materials, swabs | -                               |
| 67                          | Detection of <i>Listeria monocytogenes</i> by direct inoculation method                                   | SOP 644<br>(ČSN EN ISO 11290-1)                                      | Food industry products and raw materials, feedstuffs and fodder raw materials, swabs | -                               |
| 68                          | Detection of <i>Salmonella spp</i> by direct inoculation method   | SOP 639<br>(ČSN EN ISO 6579-1)                                       | Food industry products and raw materials, feedstuffs and fodder raw materials, swabs | -                               |
| 69                          | Enumeration of sulfite-reducing bacteria growing under anaerobic conditions by direct inoculation method  | SOP 630<br>(ČSN ISO 15213)   | Food industry products and raw materials, feed and fodder raw materials              | -                               |
| 70                          | Detection of <i>Salmonella spp</i> by direct inoculation method   | SOP 639A<br>(ČSN EN ISO 6579-1;<br>AHEM č. 1/2008)                   | Sludge, sediments, organic fertilizers, BPS products                                 | -                               |
| 71                          | Enumeration of thermotolerant coliform bacteria by direct inoculation method                              | SOP 640<br>(ČSN 75 7835<br>AHEM č. 7/2001;<br>AHEM č. 1/2008)        | Sludge, sediments, organic fertilizers, BPS products                                 | -                               |
| 72                          | Enumeration of intestinal enterococci by direct inoculation method  | SOP 641<br>(ČSN EN ISO 7899-2;<br>AHEM č. 7/2001;<br>AHEM č. 1/2008) | Sludge, sediments, organic fertilizers, BPS products                                 | -                               |

<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)        |
|---------------------|---|
| 31-33               | Ag, Al, As, B, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, Hg, K, Mg, Mn, Mo, Na, Ni, P, Pb, S, Sb, Se, V, Zn |
| 46                  | Acetic acid, lactic acid, butyric acid, propionic acid, valeric acid                              |

**Sampling:**

| Ordinal number | Sampling procedure name                                       | Sampling procedure identification <sup>1</sup>   | Subject of sampling                            |
|----------------|---|--|--|
| 1              | Drinking water sampling                                       | SOP 751<br>(ČSN EN ISO 5667-1;<br>ČSN EN ISO 5667-3;<br>ČSN ISO 5667-5;<br>ČSN EN ISO 5667-14;<br>ČSN EN ISO 19458)                    | Drinking, bottled, raw,<br>produced, hot water |
| 2              | Waste water sampling.<br>(Manual and by an automatic sampler) | SOP 752<br>(ČSN EN ISO 5667-1;<br>ČSN EN ISO 5667-3;<br>ČSN ISO 5667-10;<br>ČSN EN ISO 5667-14;<br>ČSN EN ISO 19458;<br>ČSN 75 7315)   | Waste water                                    |
| 3              | Surface water sampling from rivers and streams                | SOP 753<br>(ČSN EN ISO 5667-1;<br>ČSN EN ISO 5667-3;<br>ČSN EN ISO 5667-6;<br>ČSN EN ISO 5667-14;<br>ČSN EN ISO 19458)                 | Surface water                                  |
| 4              | Sampling of water from swimming pools                         | SOP 756<br>(ČSN EN ISO 5667-1;<br>ČSN EN ISO 5667-3;<br>ČSN EN ISO 5667-14;<br>ČSN EN ISO 19458;<br>MoH Regulation No. 238/2011 Coll.) | Bathing water                                  |
| 5              | Ground water sampling.<br>(Manual and by a submersible pump)  | SOP 754<br>(ČSN EN ISO 5667-1;<br>ČSN EN ISO 5667-3;<br>ČSN ISO 5667-11;<br>ČSN EN ISO 5667-14;<br>ČSN EN ISO 19458)                   | Ground water                                   |



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| Ordinal number | Sampling procedure name        | Sampling procedure identification <sup>1</sup>   | Subject of sampling  |
|----------------|--------------------------------|--|--|
| 6              | Agricultural products sampling | SOP 757<br>(ČSN 46 7090:2004;<br>Commission Regulation (EC)<br>No. 152/2009;<br>ČSN 56 2253)   | Agricultural products, fruit and vegetables  |
| 7              | Waste sampling                 | SOP 760<br>(MoE Regulation 273/2021 Coll.;<br>ČSN 46 3735;<br>ČSN EN ISO 5667-13;<br>ČSN EN ISO 5667-15;<br>MoE CR Guideline for waste sampling, MoE CR Bulletin No. 4/2008) | Construction debris, construction materials, pasty, solid and liquid waste, sludge, composts, BPS products |
| 8              | Agricultural soil sampling     | SOP 761<br>(AZP ÚKZÚZ Brno working procedure, 1999;<br>MoA Regulation No. 400/2004 Coll.;<br>MoA Regulation No. 309/2021 Coll.)  | Soils, fertilizers   |
| 9              | Sampling of sediments          | SOP 763<br>(ČSN EN ISO 5667-1;<br>ČSN EN ISO 5667-3;<br>ČSN EN ISO 5667-14;<br>ČSN ISO 5667-12;<br>MoA and MoE Regulation No. 257/2009 Coll.)                                | Sediments  |

<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 edition of the specified procedure is used (including any changes)

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**Explanatory notes:**

|              |   |
|--------------|---|
| MoH:         | Ministry of Health  |
| AZP          | Agrochemical Soil Testing   |
| HPLC         | High-Performance Liquid Chromatography  |
| UV           | Ultraviolet range detection   |
| ITP          | Isotachophoresis  |
| GC           | Gas Chromatography  |
| FID          | Flame Ionization Detector   |
| EDTA         | Ethylenediaminetetraacetic Acid   |
| AHEM         | Acta Hygienica, Epidemiologica et Microbiologica  |
| TNV          | Branch Technical Standard of Water Management   |
| ÚRVJT method | Method of ÚRVJT VVZ PJT Spišská Nová Ves  |
| SOP          | Standard operating procedure  |
| JPP ÚKZÚZ    | Central Institute for Supervising and Testing in Agriculture - Uniform Working Procedures |
| MoA          | Ministry of Agriculture   |
| ISE          | Ion Selective Electrode   |
| BPS          | BPSBiogas plant   |