The Appendix is an integral part of
Certificate of Accreditation No: 175/2025 of 10/04/2025

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

Ústřední kontrolní a zkušební ústav zemědělský
CAB number 1071, Národní referenční laboratoř
Hroznová 63/2, Pisárky, 603 00 Brno

Testing laboratory locations:

1.	**ÚKZÚZ, NRL, Department of NRL OS**	Za Opravnou 4, 150 06 Praha 5 – Motol
2.	**ÚKZÚZ, NRL, Department of NRL Praha**	Za Opravnou 4, 150 06 Praha 5 – Motol
3.	**ÚKZÚZ, NRL, Division of NRL Brno**	Hroznová 63/2, 603 00 Brno
4.	**ÚKZÚZ, NRL, Division of NRL Opava**	Jaselská 16, 746 01 Opava
5.	**ÚKZÚZ, NRL, Department of NRL Plzeň**	Slovanská alej 20, 326 00 Plzeň
6.	**ÚKZÚZ, NRL, Department of Special Plant and Feed Analysis**	Lípa 121, 582 57
7.	**ÚKZÚZ, NRL, Department of Microbiology and Biochemistry**	Hroznová 63/2, 603 00 Brno
8.	**ÚKZÚZ, NRL, Division of Plant Pest Diagnostics, Department of Plant Pest Diagnostics Olomouc**	Šlechtitelů 773/23, 779 00 Olomouc
9.	**ÚKZÚZ, NRL, Department of Testing Plant Protection Products**	Zemědělská 1a, 613 00 Brno
10.	**ÚKZÚZ, NRL, Division of Plant Pest Diagnostics, Department of Plant Pest Diagnostics Havlíčkův Brod**	Konečná 1930, 580 01 Havlíčkův Brod
11.	**ÚKZÚZ, NRL, Division of Plant Pest Diagnostics, Laboratory of Plant Pest Diagnostics Opava**	Jaselská 552/16, 746 01 Opava

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://ukzuz.gov.cz/public/portal/ukzuz/-a57064---Rz013i1P/seznam-cinnosti-v-ramci-flexibilniho-rozsahu-akreditace in the form of the "List of activities within the flexible scope of accreditation".
The laboratory provides opinions and interpretations of the test results.
Detailed information on activities within the scope of accreditation (determined analytes / source literature) is given in the section "Specification of the scope of accreditation".

1. **ÚKZÚZ, NRL, Department of NRL OS**

Tests:

Ordinal number[1]	Test procedure / method name	Test procedure / method identification[2]	Tested subject	Degrees of freedom[3]
1	Determination of moisture content by gravimetric method	SOP 003, Chap. 4.2 (Seed and planting materials testing methodology, Chap. 9, methods according to 9.3.5.1 and 9.3.5.2; ISTA, Chap. 9.1.2, 9.1.3)	Seed	-

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Ordinal number[1]	Test procedure / method name	Test procedure / method identification[2]	Tested subject	Degrees of freedom[3]
2	Detection of animal pests by macroscopic and microscopic method	SOP 004 (Seed and planting materials testing methodology, Chap. 12; ISTA, Chap. 7)	Seed	-
3	Determining size fractions − sieve sorting	SOP 006 (Seed and planting materials testing methodology, Chap. 12; ISTA, Chap. 7)	Seed	-
4	Determining size fractions − sieve sorting	SOP 016, Chap. 3.5 (Seed and planting materials testing methodology, Chap. 11.8)	Coated seed	-
5	Determination of purity by macroscopic method	SOP 007 (Seed and planting materials testing methodology, Chap. 3; ISTA, Chap. 3)	Seed	-
6	Determination of purity by macroscopic method	SOP 016, Chap. 4.2 (Seed and planting materials testing methodology, Chap. 11.4; ISTA, Chap. 11.3)	Coated seed	-
7	Determination of purity by macroscopic method	SOP 022, Chap. 4.4 (Seed and planting materials testing methodology, Chap. 17.4; ISTA, Chap. 18.4)	Seed mixtures	-
8	Determination of thousand seeds weight by gravimetric method	SOP 008 (Seed and planting materials testing methodology, Chap. 10; ISTA, Chap. 10)	Seed	-
9	Determination of thousand seeds weight by gravimetric method	SOP 022, Chap. 4.7 (Seed and planting materials testing methodology, Chap. 17.7; ISTA, Chap. 18.7)	Seed mixtures	-

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CAB number 1071, Národní referenční laboratoř
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Ordinal number[1]	Test procedure / method name	Test procedure / method identification[2]	Tested subject	Degrees of freedom[3]
10	Determination of germination by macroscopic method	SOP 009 (Seed and planting materials testing methodology, Chap. 5; ISTA, Chap. 5)	Seed	-
11	Determination of germination by macroscopic method	SOP 016, Chap. 4.4 (Seed and planting materials testing methodology, Chap. 11.6; ISTA, Chap. 11.5)	Coated seed	-
12	Determination of germination by macroscopic method	SOP 022, Chap. 4.6 (Seed and planting materials testing methodology, Chap. 17.6; ISTA, Chap. 18.6)	Seed mixtures	-
13	Biochemical test of viability by staining	SOP 010 (Seed and planting materials testing methodology, Chap. 6; ISTA, Chap. 6)	Seed	-
14	Biochemical test of viability by staining	SOP 022, Chap. 4.6 (Seed and planting materials testing methodology, Chap. 17.6; ISTA, Chap. 18.6)	Seed mixtures	-
15	Detection of diseases by macroscopic and microscopic method	SOP 011 (Seed and planting materials testing methodology, Chap. 7; ISTA, Chap. 7)	Seed	-
16	Determining the identity of species and variety	SOP 012 (Seed and planting materials testing methodology, Chap. 8.10; PRESLIA 1963 35:210-216 Jaroslav Pazourek)	Seed	-

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Ordinal number[1]	Test procedure / method name	Test procedure / method identification[2]	Tested subject	Degrees of freedom[3]
17	Determining the degree of ploidy microscopically	SOP 013 (Seed and planting materials testing methodology, Chap. 8.9; A set of karyological methodologies for selected types of cultivated plants)	Seed	-
18	Testing the quality of chemical treatment	SOP 023 (Seed and planting materials testing methodology, Chap. 7; ISTA, Chap. 7)	Seed	-
19	Verification of varietal and species identity and purity by vertical electrophoresis	SOP 015 (Seed and planting materials testing methodology, Chap. 8.8; ISTA, Chap. 8.9.6, 8.9.1, 8.9.7, 8.9.4, 8.9.2; UPOV, TG 23/6)	Wheat, barley, triticale, oats, rye, peas	-

[1] asterisk at the ordinal number identifies the tests, which the laboratory is qualified to carry out outside the permanent laboratory premises; the numerical index at the test ordinal number identifies the location carrying out the test (the identification of the locations is given on the first page of this document)

[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] degree 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.

Specification of the scope of accreditation:

Ordinal test number	Detailed information on activities within the scope of accreditation (determined analytes)
16	only for distinguishing: white oats from yellow oats, lupine seeds with a high content of bitter substances, cruciferous seeds, sugar beet, fodder and salad beet by the colour of the hypocotyl

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2. **ÚKZÚZ, NRL, Department of NRL Praha**

Tests:

Ordinal number[1]	Test procedure / method name	Test procedure/ method identification[2]	Tested object	Degrees of freedom[3]
1	Determination of moisture by gravimetric method and calculation of dry matter	JPP ÚKZÚZ, procedure No.10001.1	Animal feeding stuffs and raw materials for their production	-
2	Determination of fat and fat after hydrolysis by gravimetric method	JPP ÚKZÚZ, procedure No.10058.1	Animal feeding stuffs and raw materials for their production	-
3	Determination of fibre by gravimetric method	JPP ÚKZÚZ, procedure No. 10068.1	Animal feeding stuffs and raw materials for their production	-
4	Determination of ash and combustible substances by gravimetric method	JPP ÚKZÚZ, procedure No. 10004.1	Animal feeding stuffs and raw materials for their production	-
5	Determination of the content of nitrogen by titrimetric method and nitrogenous substances by calculation from measured values	JPP ÚKZÚZ, procedure No. 10014.1	Animal feeding stuffs and raw materials for their production	-
6	Determination of chlorides by titrimetric method	JPP ÚKZÚZ, procedure No. 10131.1	Animal feeding stuffs and raw materials for their production	-
7	Determination of sugars by titrimetric method	JPP ÚKZÚZ, procedure No. 10084.1	Animal feeding stuffs and raw materials for their production	-
8	Determination of total phosphorus by spectrophotometric method	JPP ÚKZÚZ, procedure No. 10122.1	Animal feeding stuffs and raw materials for their production	-
9	Determination of selected elements by FAAS method	JPP ÚKZÚZ, procedure No. 10325.1	Animal feeding stuffs and raw materials for their production	-
10	Determination of selected macroelements by FAAS and FAES method	JPP ÚKZÚZ, procedure No. 10135.1	Animal feeding stuffs and raw materials for their production	-

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Hroznová 63/2, Pisárky, 603 00 Brno

Ordinal number[1]	Test procedure / method name	Test procedure/ method identification[2]	Tested object	Degrees of freedom[3]
11	Determination of vitamin A, E content by HPLC/DAD, FLD method	JPP ÚKZÚZ, procedure No. 10380.1	Animal feeding stuffs and raw materials for their production	D
12	Determination of amprolium by HPLC/UV method	JPP ÚKZÚZ, procedure No. 10636.1	Animal feeding stuffs and raw materials for their production	D
13	Determination of robenidin by HPLC/UV method	JPP ÚKZÚZ, procedure No. 10394.1	Animal feeding stuffs and raw materials for their production	D
14	Determination of diclazuril by HPLC/UV method	JPP ÚKZÚZ, procedure No. 10393.1	Animal feeding stuffs and raw materials for their production	D
15	Determination of selected feed additives by HPLC/UV method	JPP ÚKZÚZ, procedure No. 10350.1	Animal feeding stuffs and raw materials for their production	D
16	Determination of lasalocid sodium by HPLC/FLD method	JPP ÚKZÚZ, procedure No. 10400.1	Animal feeding stuffs and raw materials for their production	D
17	Determination of dimetridazol by HPLC/UV method	JPP ÚKZÚZ, procedure No. 10391.1	Animal feeding stuffs and raw materials for their production	D
18	Determination of nicarbazin by HPLC/UV method	JPP ÚKZÚZ, procedure No. 10360.1	Animal feeding stuffs and raw materials for their production	D
19	Determination of coccidiostats by LC-MS/MS method	JPP ÚKZÚZ, procedure No. 10620.3	Animal feeding stuffs and raw materials for their production	B, D
20	Determination of unauthorised feed additives by LC-MS/MS method	JPP ÚKZÚZ, procedure No. 10630.2	Animal feeding stuffs and raw materials for their production	B, D
21	Determination of amino acids by ion exchange chromatography	JPP ÚKZÚZ, procedure No. 10021.1	Animal feeding stuffs and raw materials for their production	-
22	Determination of starch by polarimetric method	JPP ÚKZÚZ, procedure No. 10083.1	Animal feeding stuffs and raw materials for their production	-

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Ordinal number[1]	Test procedure / method name	Test procedure/ method identification[2]	Tested object	Degrees of freedom[3]
23	Determination of urea by spectrophotometric method	JPP ÚKZÚZ, procedure No. 10009.1	Animal feeding stuffs and raw materials for their production	-
24	Determination of methionine hydroxy analogue by HPLC/UV method	JPP ÚKZÚZ, procedure No. 10330.1	Animal feeding stuffs and raw materials for their production	D
25	Determination of nifursol by HPLC/UV method	JPP ÚKZÚZ, procedure No. 10635.1	Animal feeding stuffs and raw materials for their production	D
26	Determination of benzoic acid by HPLC/UV method	JPP ÚKZÚZ, procedure No. 10336.1	Animal feeding stuffs and raw materials for their production	D
27	Determination of total and free tryptophan by HPLC/FLD method	JPP ÚKZÚZ, procedure No. 10023.2	Animal feeding stuffs and raw materials for their production	D
28	Determination of maduramicine by HPLC/UV method	JPP ÚKZÚZ, procedure No. 10341.1	Animal feeding stuffs and raw materials for their production	D
29	Determination of decoquinate by HPLC/FLD method	JPP ÚKZÚZ, procedure No. 10370.1	Animal feeding stuffs and raw materials for their production	D
30	Determination of sulfonamides by LC-MS/MS method	JPP ÚKZÚZ, procedure No. 10622.2	Animal feeding stuffs and raw materials for their production	B, D
31	Determination of amoxicilin by LC-MS/MS method	JPP ÚKZÚZ, procedure No. 10637.1	Animal feeding stuffs and raw materials for their production	D
32	Determination of tiamulin by LC-MS/MS method	JPP ÚKZÚZ, procedure No. 10638.1	Animal feeding stuffs and raw materials for their production	D
33	Determination of urea by LC-MS/MS method	JPP ÚKZÚZ, procedure No. 10625.1	Animal feeding stuffs and raw materials for their production	D

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[3] degree 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.

Specification of the scope of accreditation:

Ordinal test number	Detailed information on activities within the scope of accreditation (determined analytes)
5	Expressed as: nitrogenous substances (*factor*), nitrogenous substances (*factor*) in dry matter, total nitrogen (N), *factor* = conversion factor for nitrogenous substances
6	Expressed as: chlorides as NaCl
7	Expressed as: total sugars after hydrolysis as saccharose, non-reducing sugars as saccharose, reducing sugars as fructose, reducing sugars as glucose, reducing sugars as invert, reducing sugars as maltose, reducing sugars as lactose
9	Cu, Fe, Mn, Zn
10	Ca, K, Mg, Na
11	Expressed as: Vitamin A – total retinol (all cis trans), Vitamin E – DL-alpha-tocopherol, Vitamin E – DL-alpha-tocopherolacetate
15	Monensin sodium, salinomycin sodium, narasin
19	Analytes: robenidin hydrochloride, monensin sodium, salinomycin sodium, narasin, lasalocid sodium, halofuginon hydrobromide, semduramicin sodium, maduramicin ammonium alpha, diclazuril, nicarbazin, decoquinate, dimetridazole
20	Analytes: Olaquindox, Carbadox, Zinc-bacitracin, Virginiamycin, Tylosin, Tylosin phosphate,
21	Analytes: lysine, asparagine acid, threonine, serine, glutamic acid, proline, glycine, alanine, cystine, valine, methionine, isoleucine, leucine, tyrosine, phenylalanine, histidine, arginine.
30	Sulfadiazine, sulfametazine, sulfamerazine, sulfamethoxazole

3. **ÚKZÚZ, NRL, Division of NRL Brno**

Tests:

Ordinal number[1]	Test procedure / method name	Test procedure / method identification[2]	Tested object	Degrees of freedom[3]
1	Determination of pH by ISE method	JPP ÚKZÚZ, procedure No. 30040.1	Soil	D
2	Determination of selected elements by ICP-OES method	JPP ÚKZÚZ, procedure No. 30350.2; procedure No. 30500.2	Soil and sludge	B, D

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Ordinal number[1]	Test procedure / method name	Test procedure / method identification[2]	Tested object	Degrees of freedom[3]
3	Determination of selected elements by ICP-OES method	JPP ÚKZÚZ, procedure No. 40020.1; procedure No. 40032.1; procedure No. 40090.1	Plant material	B, D
4	Determination of selected elements by ICP-OES method	JPP ÚKZÚZ, procedure No. 10150.1; procedure No. 10320.1; procedure No. 10180.1	Animal feeding stuffs and raw materials for their production	B, D
5	Determination of selected elements by ICP-OES method	JPP ÚKZÚZ, procedure No. 30068.1; procedure No. 30074.1	Soil	B, D
6	Determination of phosphorus by spectrophotometric method	JPP ÚKZÚZ, procedure No. 30068.1; procedure No. 30072.1	Soil	D
7	Determination of moisture by gravimetric method and calculation of dry matter	JPP ÚKZÚZ, procedure No. 10001.1	Animal feeding stuffs and raw materials for their production	D
8	Determination of moisture by gravimetric method and calculation of dry matter	JPP ÚKZÚZ, procedure No. 40010.1	Plant material	D
9	Determination of moisture by gravimetric method and calculation of dry matter	JPP ÚKZÚZ, procedure No. 30020.1	Soil, sludge, sediments	D
10	Determination of moisture by gravimetric method and calculation of dry matter	JPP ÚKZÚZ, procedure No. 50010.1	Plant material	D
11	Determination of mercury using AMA instrument	JPP ÚKZÚZ, procedure No. 10420.1	Animal feeding stuffs and raw materials for their production	D
12	Determination of mercury using AMA instrument	JPP ÚKZÚZ, procedure No. 30460.1	Soil, sludge, sediments	D
13	Determination of mercury using AMA instrument	JPP ÚKZÚZ, procedure No. 40190.1	Plant material	D

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Ordinal number[1]	Test procedure / method name	Test procedure / method identification[2]	Tested object	Degrees of freedom[3]
14	Determination of the content of nitrogen by titrimetric method and nitrogenous substances by calculation from measured values	JPP ÚKZÚZ, procedure No. 10014.1	Animal feeding stuffs and raw materials for their production	D
15	Determination of nitrogen by titrimetric method	JPP ÚKZÚZ, procedure No. 40020.1; procedure No. 40053.1	Plant material	D
16	Determination of nitrogen by titrimetric method	JPP ÚKZÚZ, procedure No. 50015.1	Plant material	D
17	Determination of fat (oil) by gravimetric method	JPP ÚKZÚZ, procedure No. 10058.1	Animal feeding stuffs and raw materials for their production	D
18	Determination of fat (oil) by gravimetric method	JPP ÚKZÚZ, procedure No. 50078.1	Plant material	D
19	Determination of fibre by gravimetric method	JPP ÚKZÚZ, procedure No. 10068.1	Animal feeding stuffs and raw materials for their production	D
20	Determination of acid detergent and neutral detergent fibre (ADF, NDF) by gravimetric method	JPP ÚKZÚZ, procedure No. 10070.1; procedure No. 10080.1	Animal feeding stuffs and raw materials for their production	D
21	Determination of starch by polarimetric method	JPP ÚKZÚZ, procedure No. 10083.1	Animal feeding stuffs and raw materials for their production	D
22	Determination of starch by polarimetric method	JPP ÚKZÚZ, procedure No. 50030.1	Plant material	D
23	Determination of sugars by titrimetric method	JPP ÚKZÚZ, procedure No. 10084.1	Animal feeding stuffs and raw materials for their production	D
24	Determination of ash (loss on ignition) by gravimetric method	JPP ÚKZÚZ, procedure No. 10004.1	Animal feeding stuffs and raw materials for their production	D

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Ordinal number[1]	Test procedure / method name	Test procedure / method identification[2]	Tested object	Degrees of freedom[3]
25	Determination of ash which is insoluble in hydrochloric acid by gravimetric method	JPP ÚKZÚZ, procedure No. 10005.1	Animal feeding stuffs and raw materials for their production	D
26	Determination of water-soluble chlorides as sodium chloride by titrimetric method	JPP ÚKZÚZ, procedure No. 10131.1	Animal feeding stuffs and raw materials for their production	D
27	Determination of vitamin A, E by HPLC/DAD, FLD method	JPP ÚKZÚZ, procedure No. 10381.1	Animal feeding stuffs and raw materials for their production	D
28	Determination of the Falling number by chronometric method	JPP ÚKZÚZ, procedure No. 50140.1	Cereals	D
29	Sedimentation index – Zeleny test	JPP ÚKZÚZ, procedure No. 50150.1	Cereals	D
30	Determination of water absorption using farinograph	JPP ÚKZÚZ, procedure No. 50160.1	Cereals	D
31	Determination of fatty acids by GC/FID method	JPP ÚKZÚZ, procedure No. 50100.1	Plant material	B, D
32	Determination of glucosinolates by HPLC/DAD method	JPP ÚKZÚZ, procedure No. 50110.1	Plant material	D
33	Determination of selected parameters by NIRS method	JPP ÚKZÚZ, procedure No. 50050.1	Oil plants, legumes	D
34	Determination of selected parameters by NIRS method	JPP ÚKZÚZ, procedure No. 50050.1	Cereals, flour	D
35	Determination of polychlorinated biphenyls (PCB) indicator congeners and persistent organic chlorinated pesticides (OCP) by GC-MS/MS method	JPP ÚKZÚZ, procedure No. 30680.1; procedure No. 30690.1	Soil, sludge, sediments	D

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Ordinal number[1]	Test procedure / method name	Test procedure / method identification[2]	Tested object	Degrees of freedom[3]
36	Determination of polychlorinated biphenyls (PCB) indicator congeners and persistent organic chlorinated pesticides (OCP) by GC-MS/MS method	JPP ÚKZÚZ, procedure No. 10580.1; procedure No. 10590.1	Animal feeding stuffs and raw materials for their production	D
37	Determination of cannabinoids by GC/FID method	JPP ÚKZÚZ, procedure No. 40280.1	Plant material	D
38	Determination of selected feed additives by HPLC/DAD, FLD method	JPP ÚKZÚZ, procedure No. 10350.1; procedure No. 10360.1; procedure No. 10390.1; procedure No. 10400.1	Animal feeding stuffs and raw materials for their production	D
39	Determination of pesticide residues by GC-MS method	JPP ÚKZÚZ, procedure No. 10610.1	Animal feeding stuffs and raw materials for their production, plant material	A, B, D
40	Determination of pesticide residues by LC-MS method	JPP ÚKZÚZ, procedure No. 10600.1	Animal feeding stuffs and raw materials for their production, plant material	A, B, D
41	Determination of pesticide residues by LC-MS method	JPP ÚKZÚZ, procedure No. 10600.1	Soil	B, D
42	Determination of selected elements by ICP-MS method	JPP ÚKZÚZ, procedure No. 40032.1; procedure No. 40224.1	Plant material	B, D
43	Determination of selected elements by ICP-MS method	JPP ÚKZÚZ, procedure No. 10290.1; procedure No. 10300.1; procedure No. 10410.1; procedure No. 10412.1; procedure No. 10440.1; procedure No. 10470.1; procedure No. 10472.1	Animal feeding stuffs and raw materials for their production	B, D

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Ordinal number[1]	Test procedure / method name	Test procedure / method identification[2]	Tested object	Degrees of freedom[3]
44	Determination of methanol in glycerol by HS-GC/FID method	JPP ÚKZÚZ, procedure No. 10520.1	Glycerol	D
45	Determination of polybrominated diphenyl ethers by GC-MS/MS method	JPP ÚKZÚZ, procedure No. 30691.1	Soil, sludge, sediments	D
46	Determination of melamine and cyanuric acid by LC-MS/MS method	JPP ÚKZÚZ, procedure No. 10530.2	Animal feeding stuffs and raw materials for their production	D
47	Determination of glycerol by titrimetric method	JPP ÚKZÚZ, procedure No. 10200.1	Raw glycerol	D
48	Determination of water in glycerol by titrimetric method	JPP ÚKZÚZ, procedure No. 10220.1	Raw glycerol	D
49	Determination of vitamin D by LC-MS/MS method	JPP ÚKZÚZ, procedure No. 10271.1	Animal feeding stuffs and raw materials for their production	D
50	Determination of selected polar residues of pesticides by LC-MS/MS method	JPP ÚKZÚZ, procedure No. 10605.4; procedure No. 10606.1	Animal feeding stuffs and raw materials for their production, plant material	B, D
51	Multiresidual method for determination of selected mycotoxins by LC-MS/MS method	JPP ÚKZÚZ, procedure No. 10575.1	Animal feeding stuffs and raw materials for their production, plant material	B, D
52	Determination of natural toxins by LC-MS/MS method	JPP ÚKZÚZ, procedure No. 10576.1	Animal feeding stuffs and raw materials for their production	B, D
53	Determination of residues of dithiocarbamates by GC-MS/MS method determined indirectly as CS_2	JPP ÚKZÚZ, procedure No. 10615.1	Animal feeding stuffs and raw materials for their production, plant material	D
54	Determination of selected opium alkaloids by HPLC/DAD method	JPP ÚKZÚZ, procedure No. 50250.1	Poppy capsules	B, D

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

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Hroznová 63/2, Pisárky, 603 00 Brno

Ordinal number[1]	Test procedure / method name	Test procedure / method identification[2]	Tested object	Degrees of freedom[3]
55	Determination of fluorides by ISE method	JPP ÚKZÚZ, procedure No. 10500.1	Animal feeding stuffs and raw materials for their production	D
56	Determination of urea by spectrophotometric method	JPP ÚKZÚZ, procedure No. 10012.1	Animal feeding stuffs and raw materials for their production	D
57	Determination of hydrocarbons $C_{10} – C_{40}$ content by GC/FID method	JPP ÚKZÚZ, procedure No. 30720.1	Soil, sediments	D

[1] asterisk at the ordinal number identifies the tests, which the laboratory is qualified to carry out outside the permanent laboratory premises; the numerical index at the test ordinal number identifies the location carrying out the test (the identification of the locations is given on the first page of this document)

[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] degree 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

Specification of the scope of accreditation:

Ordinal test number	Detailed information on activities within the scope of accreditation (determined analytes)
2	P, K, Ca, Mg, Na, Cu, Zn, Ni, Co, Pb, Cd, Be, Cr, Al, Fe, Mn, As, S, Mo, V
3	P, K, Ca, Mg, Na, S
4	P, K, Ca, Mg, Na, Cu, Zn, Fe, Mn, S
5	Al, B, Ca, Cu, Fe, K, Mg, Mn, P, S, Zn
31	Arachic acid, behenic acid, eicosanoic acid, erucic acid, lauric acid, lignoceric acid, linolenic acid, linolic acid, myristic acid, oleic acid, palmitic acid, stearic acid
33	Fat, oil, dry matter, nitrogenous subsances
34	Dry matter, nitrogenous subsances, starch, ash
35	PCB28, PCB52, PCB101, PCB118, PCB138, PCB153, PCB180, HCB, alpha-HCH, beta-HCH, gamma-HCH, delta-HCH, o,p´-DDT, o,p´-DDD, o,p´-DDE, p,p´-DDT, p,p´-DDD, p,p´-DDE
36	PCB28, PCB52, PCB101, PCB118, PCB138, PCB153, PCB180, HCB, alpha-HCH, beta-HCH, gamma-HCH, delta-HCH, o,p´-DDT, o,p´-DDD, o,p´-DDE, p,p´-DDT, p,p´-DDD, p,p´-DDE, aldrin, dieldrin, endrin, endrin-keton, isodrin, heptachlor, alpha-heptachlorepoxide, beta-heptachlorepoxid, alpha-endosulfan, beta-endosulfan, endosulfan sulphate, alpha-chlordan,

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

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Hroznová 63/2, Pisárky, 603 00 Brno

Ordinal test number	Detailed information on activities within the scope of accreditation (determined analytes)
	gamma-chlordan, oxychlordan, metoxychlor, mirex, congeners of toxafen Parlar-26, Parlar-32, Parlar-50 and Parlar-62
37	THC, CBD
38	Salinomycin, monensin, narasin, robenidin, nicarbazin, lasalocid
39	Azinphos-ethyl, Azinphos-methyl, Azoxystrobin, Bifenox, Bifenthrin, Bixafen, Boscalid, Bromuconazole, Captan, Carbaryl, Carfentrazone-ethyl, Cyfluthrin, Cyhalothrin-lambda, Cypermethrin, Cyproconazole, Cyprodinil, Deltamethrin, Diazinon, Dicloran, Dicofol, Difenoconazole, Dichlorvos, Dichlormid, Dimethoate, Dimethomorph, Diphenylamine, Endosulfan, Endosulfan sulfate, Epoxiconazole, Ethion, Etofenprox, Ethofumesate, Famoxadone, Fenamidone, Fenbuconazole, Fenhexamid, Fenitrothion, Fenpropidin, Fenpropimorph, Fenthion, Fenvalerate, Fipronil, Flonicamid, Fludioxonil, Flufenacet, Flumioxazin, Fluquinconazole, Flurochloridone, Flusilazole, Flutolanil, Flutriafol, Fluvalinate-tau, Folpet, Isoxadifen-ethyl, Isoxaflutole, Hexaconazole, Chlorfenvinphos, Chlorpropham, Chlorpyrifos, Chlorpyrifos-methyl, Indoxacarb, Iprodione, Iprovalicarb, Isoproturon, Kresoxim-methyl, Malaoxon, Malathion, Mefenpyr-diethyl, Mefentrifluconazole, Metalaxyl, Metconazole, Methacrifos, Methidathion, Metrafenone, Metribuzin, Monocrotophos, Myclobutanil, Napropamide, Nitrofen, Omethoate, Oxyfluorfen, Parathion, Penconazole, Pendimethalin, Permethrin, Phenthoate, Phosalone, Phosmet, Phtalimide, Picoxystrobin, Pirimicarb, Pirimiphos-methyl, Procymidone, Profenofos, Propiconazole, Propyzamide, Pyraflufen-ethyl, Pyrimethanil, Quinoxyfen, Resmethrin, Spiroxamine, Tefluthrin, THPI, Tetraconazole, Triadimefon, Triadimenol, Triazophos, Trifloxystrobin, Trifluralin, Triticonazole, Vinclozolin
40	2,4-D, Acephate, Acetamiprid, Acetochlor, Aclonifen, Alachlor, Amidosulfuron, Aminopyralid, Atrazine, Azadirachtin, Azinphos-methyl, Azoxystrobin, Benalaxyl, Bentazone, Benzovindiflupyr, Bitertanol, Bixafen, Boscalid, Bromoxynil, Bromuconazole, Carbaryl, Carbendazim, Carbofuran, Carbofuran-3-hydroxy, Carboxin, Carfentrazone-ethyl, Clomazone, Clopyralid, Clothianidin, Cyantraniliprole, Cyazofamid, Cyflufenamid, Cymoxanil, Cyproconazole, Cyprodinil, Demeton-S-methylsulfone, Desmedipham, Diazinon, Difenoconazole, Diflubenzuron, Diflufenican, Dichlorprop, Dichlorvos, Dimethachlor, Dimethenamid, Dimethoate, Dimethomorph, Dimoxystrobin, Diuron, Epoxiconazole, Ethofumesate, Famoxadone, Fenamidone, Fenbuconazole, Fenhexamid, Fenoxaprop-P, Fenoxaprop-P-ethyl, Fenpropidin, Fenpropimorph, Fenthion, Fenpyroximate, Florasulam, Fluazifop, Fluazifop-P-butyl, Fluazinam, Fludioxonil, Flufenacet, Fluopicolide, Fluopyram, Fluoxastrobin, Flupyradifuron, Flurochloridone, Fluquinconazole, Fluroxypyr, Flusilazole, Flutolanil, Flutriafol, Fluvalinate-tau, Fluxapyroxad, Foramsulfuron, Forchlorfenuron, Halauxifen-methyl, Haloxyfop, Haloxyfop-etotyl, Haloxyfop-methyl, Hexaconazole, Hexazinone, Hexythiazox, Chlorantraniliprole, Chloridazon, Chlorotoluron, Chlorpropham Chlorpyrifos, Chlorpyrifos-methyl, Chlorsulfuron, Imazalil, Imazamox, Imidacloprid, Indoxacarb, Iodosulfuron-methyl, Iprodione, Iprovalicarb, Isofetamid, Isoproturon, Isoxaflutole, Kresoxim-methyl, Linuron, Lenacil, Malaoxon, Malathion, Mandestrobin,

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

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Hroznová 63/2, Pisárky, 603 00 Brno

Ordinal test number	Detailed information on activities within the scope of accreditation (determined analytes)
	Mandipropamid, MCPA, MCPB, Mecoprop, Mefenpyr-diethyl, Mefentrifluconazole, Mesosulfuron-methyl, Mesotrione, Metalaxyl, Metamitron, Metazachlor, Metconazole, Metobromuron, Methiocarb, Methiocarb sulfone, Methomyl, Methoxyfenozide, Metolachlor, Metrafenone, Metribuzin, Metsulfuron-methyl, Monocrotophos, Myclobutanil, Napropamide, Nicosulfuron, Omethoate, Paclobutrazol, Penconazole, Pencycuron, Pendimethalin, Penoxsulam, Pethoxamid, Phenmedipham, Phosalone, Phosmet, Phosphamidon, Picloram, Picolinafen, Picoxystrobin, Pinoxaden, Pirimicarb, Pirimicarb-desmethyl, Pirimiphos-methyl, Prochloraz, Propamocarb, Prometryn, Propachlor, Propaquizafop, Propiconazole, Propyzamide, Proquinazid, Prosulfocarb, Prothioconazole-desthio, Pyraclostrobin, Pyraflufen-ethyl, Pyridaben, Pyridate, Pyrimethanil, Pyriproxyfen, Pyroxsulam, Quinclorac, Quinmerac, Quinoxyfen, Quizalofop-P, Quizalofop-P-ethyl, Quizalofop-P-tefuryl, Oxydemeton-methyl, Rimsulfuron, Silthiofam, Simazine, Spinosad, Spinosyn A, Spinosyn D, Spiroxamine, Sulfosulfuron, Tebuconazole, Tebufenozide, Tebufenpyrad, Tembotrione, Terbuthylazine, Terbutryn, Tetraconazole, Thiabendazole, Thiacloprid, Thiamethoxam, Thiencarbazone-methyl, Thifensulfuron-methyl, Thiodicarb, Thiophanate-methyl, Triadimefon, Triadimenol, Tri-allate, Triasulfuron, Triazophos, Tribenuron-methyl, Triclopyr, Trifloxystrobin, Triflusulfuron-methyl, Trinexapac, Trinexapac-ethyl, Triticonazole, Tritosulfuron, Zoxamide
41	2,4-D, Acetamiprid, Acetochlor, Aclonifen, Alachlor, Amidosulfuron, Aminopyralid, Asulam, Atrazine, Atrazine-2-hydroxy, Atrazine-desethyl, Atrazine-desethyl-desisopropyl, Atrazine-desisopropyl, Azoxystrobin, Bentazone, Boscalid, Bromoxynil, Carbendazim, Clomazone, Clopyralid, Cyflufenamid, Cymoxanil, Cyproconazole, Desmedipham, Dicamba, Dichlorprop, Difenoconazole, Diflufenican, Dimethachlor, Dimethenamid, Dimethoate, Dimethomorph, Dimoxystrobin, Diuron, Epoxiconazole, Ethofumesate, Fenhexamid, Fenpropidin, Fenpropimorph, Fenpyroximate, Florasulam, Fluazifop, Fluazifop-P-butyl, Fludioxonil, Flufenacet, Fluopicolide, Fluopyram, Fluoxastrobin, Flurochloridone, Fluroxypyr, Flusilazole, Fluvalinate-tau, Foramsulfuron, Haloxyfop, Haloxyfop-methyl, Hexazinone, Chlorantraniliprole, Chloridazon, Chlorotoluron, Chlorpropham, Chlorpyrifos, Chlorsulfuron, Imazamox, Iodosulfuron-methyl, Iprovalicarb, Isoproturon, Isoxaflutole, Lenacil, Linuron, MCPA, Mecoprop, Mefenpyr-diethyl, Mesotrione, Metalaxyl, Metamitron, Metazachlor, Metconazole, Methomyl, Methoxyfenozide, Metolachlor, Metribuzin, Metsulfuron-methyl, Napropamide, Nicosulfuron, Omethoate, Penconazole, Pendimethalin, Pethoxamid, Phenmedipham, Picloram, Picoxystrobin, Pinoxaden, Pirimiphos-methyl, Prochloraz, Prometryn, Propachlor, Propamocarb, Propaquizafop, Propiconazole, Propyzamide, Proquinazid, Prothioconazole-desthio, Pyraclostrobin, Pyridate, Pyroxsulam, Quinclorac, Quinmerac, Quinoxyfen, Quizalofop, Quizalofop-P-ethyl, Rimsulfuron, Simazine, Spiroxamine, Sulfosulfuron, Tebuconazole, Tebufenpyrad, Terbuthylazine, Terbuthylazine-2-hydroxy, Terbuthylazine-desethyl, Terbutryn, Tetraconazole, Thiacloprid, Thiencarbazone-methyl, Thifensulfuron-methyl, Thiophanate-methyl, Triadimenol, Triasulfuron, Triclopyr, Trifloxystrobin, Trinexapac-ethyl, Tritosulfuron

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

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CAB number 1071, Národní referenční laboratoř
Hroznová 63/2, Pisárky, 603 00 Brno

Ordinal test number	Detailed information on activities within the scope of accreditation (determined analytes)
42	Pb, As, Mo, Ni, Cu, Mn, Co, B, Be, Al, Cd, Zn, V, Cr, Fe
43	Cd, Pb, Cr, As, Se, I, Co, Ni
45	PBDE 28, 47, 66, 85, 99, 100, 153, 154, 183
50	chlormequat chloride, mepiquat chloride, glyphosate, N-acetyl-glyphosate, glufosinate, aminomethylphosphonic acid (AMPA), N-acetyl-glufosinate (NAG), fosetyl-Al, ethephon, 3-methylphosphinicopropionic acid (MPP), glufosinate sum (sum of glufosinate isomers, its salts and its metabolites MPP and NAG, expressed as glufosinate)
51	Aflatoxin B1, B2, G1, G2, T-2 toxin, deoxynivalenol, ochratoxin A, enniatin A, A1, B, B1, Fumonisin B1, Fumonisin B2, beauvericin, zearalenon, HT-2 toxin
52	Ergocornine, ergocorninine, ergosine, ergosinine, ergocrystine, ergocrystinine, ergocryptine, ergocryptinine, ergotamine, ergotaminine, ergometrine, ergometrinine, retrosine, monokrotaline, senecionine, senecifiline, senkirkine
54	Morphine

4. **ÚKZÚZ, NRL, Division of NRL Opava**

Tests:

Ordinal number[1]	Test procedure / method name	Test procedure / method identification[2]	Tested subject	Degrees of freedom[3]
1	Determination of moisture by gravimetric method and calculation of dry matter	JPP ÚKZÚZ, procedure No. 10002.1	Animal feeding stuffs and raw materials for their production	-
2	Determination of moisture by gravimetric method and calculation of dry matter	JPP ÚKZÚZ, procedure No. 40010.1	Plant material	D
3	Determination of moisture by gravimetric method and calculation of dry matter	JPP UKZÚZ, procedure No. 30020.1	Soil, sludge, sediments	D
4	Determination of ash by gravimetric method	JPP ÚKZÚZ, procedure No. 10004.1	Animal feeding stuffs and raw materials for their production	-

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

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CAB number 1071, Národní referenční laboratoř
Hroznová 63/2, Pisárky, 603 00 Brno

Ordinal number[1]	Test procedure / method name	Test procedure / method identification[2]	Tested subject	Degrees of freedom[3]
5	Determination of organic substances (loss on ignition, combustible substances) by gravimetric method	JPP ÚKZÚZ, procedure No. 30900.1	Soil, sludge, sediments	-
6	Determination of fat (oil) by gravimetric method	JPP ÚKZÚZ, procedure No. 10058.1	Animal feeding stuffs and raw materials for their production	-
7	Determination of fat (oil) by gravimetric method	JPP ÚKZÚZ, procedure No. 10060.1	Animal feeding stuffs and raw materials for their production	-
8	Determination of fibre by gravimetric method	JPP ÚKZÚZ, procedure No. 10068.1	Animal feeding stuffs and raw materials for their production	-
9	Determination of starch by polarimetric method	JPP ÚKZÚZ, procedure No. 10083.1	Animal feeding stuffs and raw materials for their production	-
10	Determination of sugars by titrimetric method	JPP ÚKZÚZ, procedure No. 10084.1	Animal feeding stuffs and raw materials for their production	-
11	Determination of the content of nitrogen by titrimetric method and nitrogenous substances by calculation from measured values	JPP ÚKZÚZ, procedure No. 10014.1	Animal feeding stuffs and raw materials for their production	-
12	Determination of nitrogen by titrimetric method	JPP ÚKZÚZ, procedure No. 40018.1; procedure No. 40053.1	Plant material	D
13	Determination of robenidine by HPLC/UV method	JPP ÚKZÚZ, procedure No. 10390.1	Animal feeding stuffs and raw materials for their production	-
14	Determination of vitamin A, E by HPLC/UV method	JPP ÚKZÚZ, procedure No. 10380.1	Animal feeding stuffs and raw materials for their production	-

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

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CAB number 1071, Národní referenční laboratoř
Hroznová 63/2, Pisárky, 603 00 Brno

Ordinal number[1]	Test procedure / method name	Test procedure / method identification[2]	Tested subject	Degrees of freedom[3]
15	Determination of phosphorus by spectrophotometric method	JPP ÚKZÚZ, procedure No. 40018.1; procedure No. 40060.1	Plant material	D
16	Determination of selected feed additives by HPLC/UV method	JPP ÚKZÚZ, procedure No. 10350.1	Animal feeding stuffs and raw materials for their production	-
17	Determination of polycyclic aromatic hydrocarbons by HPLC/UV/FLD method	JPP ÚKZÚZ, procedure No. 30660.1	Soil, sludge, sediments	A, D
18	Determination of selected elements by FAES method	JPP ÚKZÚZ, procedure No. 40018.1; procedure No. 40080.1	Plant material	-
19	Determination of selected elements by FAAS method	JPP ÚKZÚZ, procedure No. 10450.1	Animal feeding stuffs and raw materials for their production	-
20	Determination of selected elements by FAAS method	JPP ÚKZÚZ, procedure No. 40018.1; procedure No. 40034.1; procedure No. 40070.1; procedure No. 40110.1	Plant material	-
21	Determination of granularity by pipetting method and gravimetric method	JPP ÚKZÚZ, procedure No. 30250.1	Soil, sludge, sediments	-
22	Determination of pH by ISE method	JPP ÚKZÚZ, procedure No. 30040.1; procedure No. 30042.1	Soil, sludge, sediments	D
23	Determination of selected elements by ICP-OES method	JPP ÚKZÚZ, procedure No. 10150.1; procedure No. 10320.1; procedure No. 10480.1; procedure No. 10282.1	Animal feeding stuffs and raw materials for their production	-
24	Determination of elements by ICP-OES method	JPP ÚKZÚZ, procedure No. 30068.1; procedure No. 30074.1	Soil, sludge, sediments	B, D

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

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CAB number 1071, Národní referenční laboratoř
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Ordinal number[1]	Test procedure / method name	Test procedure / method identification[2]	Tested subject	Degrees of freedom[3]
25	Determination of selected elements by ICP-OES method	JPP ÚKZÚZ, procedure No. 30350.2; procedure No. 30500.2	Soil, sludge, sediments	B, D
26	Determination of selected elements by ICP-OES method	JPP ÚKZÚZ, procedure No. 40030.1; procedure No. 40034.1; procedure No. 40090.1; procedure No. 40100.1	Plant material	B, D
27	Determination of mercury using AMA instrument	JPP ÚKZÚZ, procedure No. 10420.1	Animal feeding stuffs and raw materials for their production	-
28	Determination of mercury using AMA instrument	JPP ÚKZÚZ, procedure No. 30460.1	Soil, sludge, sediments	D
29	Determination of mercury using AMA instrument	JPP ÚKZÚZ, procedure No. 40190.1	Plant material	D
30	Determination of selected parameters by NIRS method	JPP ÚKZÚZ, procedure No. 50050.1	Plant material	-
31	Determination of nitrogenous substances by NIRS method	JPP ÚKZÚZ, procedure No. 50050.1	Plant material	-
32	Determination of theobromin and caffeine by HPLC/UV method	JPP ÚKZÚZ, procedure No. 10542.2	Animal feeding stuffs and raw materials for their production	-

[1] asterisk at the ordinal number identifies the tests, which the laboratory is qualified to carry out outside the permanent laboratory premises; the numerical index at the test ordinal number identifies the location carrying out the test (the identification of the locations is given on the first page of this document)

[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] degree 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.

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

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CAB number 1071, Národní referenční laboratoř
Hroznová 63/2, Pisárky, 603 00 Brno

Specification of the scope of accreditation:

Ordinal test number	Detailed information on activities within the scope of accreditation (determined analytes)
16	Salinomycin, monensin, narasin
17	Naphthalene, acenaphthylene, acenaphthene, fluorene, fluoranthene, phenanthrene, anthracene, pyrene, benzo(a)anthracene, chrysene, benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(a)pyrene, dibenzo(a,h)anthracene, benzo(ghi)perylene, indeno(1,2,3-cd)pyrene, benzo(e)pyrene, perylene
18	Na, K
19	Pb, Cd
20	Ca, Mg, Pb, Cd
21	Determined fractions: particles below 0,001 mm, particles below 0,002 mm, particles below 0,006 mm, particles below 0,01 mm, particles below 0,05 mm, particles below 0,063 mm, particles from 0,001 to 0,01 mm, particles from 0,01 to 0,05 mm, particles from 0,051 to 0,25 mm, particles from 0,25 to 2,0 mm, particles from 2,0 to 4,0 mm
23	Zn, Co, Ni, Cr, Cu, Mn, Fe, Ca, K, Mg, Na, P, As, Se
24	Al, Ca, Cd, K, Mg, P, S, Cu, Mn, Zn, Fe, B
25	Zn, Co, Ni, Cr, V, Be, Cu, Mn, Mo, Fe, Al, Ca, K, Mg, Na, P, S, As, Pb, Cd
26	Al, As, B, Be, Ca, Cd, Co, Cr, Cu, Fe, K, Mg, Mn, Mo, Na, Ni, P, Pb, S, V, Zn
30	Fat, oil

5. **ÚKZÚZ, NRL, Department of NRL Plzeň**

Tests:

Ordinal number[1]	Test procedure / method name	Test procedure / method identification[2]	Tested subject	Degrees of freedom[3]
1	Determination of moisture by gravimetric method and calculation of dry matter	JPP ÚKZÚZ, procedure No.30020.1	Soil, sludge, sediments	D
2	Determination of moisture by gravimetric method and calculation of dry matter	JPP ÚKZÚZ, procedure No. 20001.1	Fertilizers and raw materials for their production	D
3	Determination of moisture by gravimetric method and calculation of dry matter	JPP ÚKZÚZ, procedure No. 40010.1	Plant material	D

The Appendix is an integral part of
Certificate of Accreditation No: 175/2025 of 10/04/2025

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

Ústřední kontrolní a zkušební ústav zemědělský
CAB number 1071, Národní referenční laboratoř
Hroznová 63/2, Pisárky, 603 00 Brno

Ordinal number[1]	Test procedure / method name	Test procedure / method identification[2]	Tested subject	Degrees of freedom[3]
4	Determination of total nitrogen by elemental analysis	JPP ÚKZÚZ, procedure No. 20320.1	Fertilizers and raw materials for their production	D
5	Determination of water-soluble chlorides by potentiometric method	JPP ÚKZÚZ, procedure No. 20020.1	Fertilizers and raw materials for their production	D
6	Determination of ammonium nitrogen by spectrophotometric method	JPP ÚKZÚZ, procedure No. 20020.1	Fertilizers and raw materials for their production	D
7	Determination of nitrate nitrogen by spectrophotometric method	JPP ÚKZÚZ, procedure No. 20144.1	Fertilizers and raw materials for their production	D
8	Determination of pH by electrochemical method	JPP ÚKZÚZ, procedure No. 20221.1; procedure No. 20376.1	Fertilizers and raw materials for their production	D
9	Determination of pH by electrochemical method	JPP ÚKZÚZ, procedure No. 30040.1	Soil, sludge, sediments	D
10	Determination of selected elements by ICP-OES method	JPP ÚKZÚZ, procedure No. 30350.2; procedure No. 30500.2	Soil, sludge, sediments	B, D
11	Determination of the elements by ICP-OES method	JPP ÚKZÚZ, procedure No. 20061.1; procedure No. 20062.1; procedure No. 20065.1; procedure No. 20070.3	Fertilizers and raw materials for their production	B, D
12	Determination of sulphur by ICP-OES method	JPP ÚKZÚZ, procedure No. 40030.1; procedure No. 40100.1	Plant material	D
13	Determination of selected elements by ICP-OES method	JPP ÚKZÚZ, procedure No. 40034.1; procedure No. 40090.1; procedure No. 40100.1	Plant material	B, D
14	Determination of selected elements by ICP-OES method	JPP ÚKZÚZ, procedure No. 30068.1; procedure No. 30074.1	Soil, sludge, sediments	B, D

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

Ústřední kontrolní a zkušební ústav zemědělský
CAB number 1071, Národní referenční laboratoř
Hroznová 63/2, Pisárky, 603 00 Brno

Ordinal number[1]	Test procedure / method name	Test procedure / method identification[2]	Tested subject	Degrees of freedom[3]
15	Determination of mercury using AMA instrument	JPP ÚKZÚZ, procedure No. 20110.1	Fertilizers and raw materials for their production	D
16	Determination of mercury using AMA instrument	JPP ÚKZÚZ, procedure No. 40190.1	Plant material	D
17	Determination of mercury using AMA instrument	JPP ÚKZÚZ, procedure No. 30460.1	Soil, sludge, sediments	D
18	Determination of ammonium nitrogen by titrimetric method	JPP ÚKZÚZ, procedure No. 20130.1	Fertilizers and raw materials for their production	D
19	Determination of amidic nitrogen by spectrophotometric method	JPP ÚKZÚZ, procedure No. 20150.2	Fertilizers and raw materials for their production	D
20	Determination of nitrate and ammonium nitrogen pursuant to Devard by titrimetric method	JPP ÚKZÚZ, procedure No. 20131.1	Fertilizers and raw materials for their production	D
21	Determination of total nitrogen pursuant to Jodlbauer by titrimetric method	JPP ÚKZÚZ, procedure No. 20135.2	Fertilizers and raw materials for their production	D
22	Determination of biuret in urea by spectrophotometric method	JPP ÚKZÚZ, procedure No. 20151.1	Fertilizers and raw materials for their production	D
23	Determination of ash and combustible substances by gravimetric method	JPP ÚKZÚZ, procedure No. 20010.1	Fertilizers and raw materials for their production	D
24	Determination of fineness of particles by granulometric method	JPP ÚKZÚZ, procedure No. 20231.1	Fertilizers and raw materials for their production	D
25	Determination of phosphorus soluble in solution of neutral ammonium citrate by gravimetric method	JPP ÚKZÚZ, procedure No. 20162.1	Fertilizers and raw materials for their production	D

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Ordinal number[1]	Test procedure / method name	Test procedure / method identification[2]	Tested subject	Degrees of freedom[3]
26	Determination of total sulphur and water-soluble sulphur by gravimetric method	JPP ÚKZÚZ, procedure No. 20190.1	Fertilizers and raw materials for their production	D
27	Determination of electric conductivity by electrochemical method	JPP ÚKZÚZ, procedure No. 20030.1	Fertilizers and raw materials for their production	D
28	Determination of carbon and nitrogen by elemental analysis	JPP ÚKZÚZ, procedure No. 30995.1	Soil, sludge, sediments	D
29	Determination of total nitrogen pursuant to Dumas	JPP ÚKZÚZ, procedure No. 40058.1	Plant material	D

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[3] degree 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.

Specification of the scope of accreditation:

Ordinal test number	Detailed information on activities within the scope of accreditation (determined analytes)
6, 7, 18, 19, 20	Expressed as N
10	As, Be, Cd, Co, Cr, Cu, Mo, Ni, Pb, V, Zn
11	Al, As, B, Be, Ca, Cd, Co, Cr, Cu, Fe, K, Mg, Mn, Mo, Na, Ni, P, Pb, S, V, Zn Expressed as P_2O_5 or P_2O_5 in dry matter Expressed as K_2O or K_2O in dry matter Expressed as MgO or MgO in dry matter Expressed as CaO or CaO in dry matter Expressed as $MgCO_3$ in dry matter Expressed as CaO + MgO Expressed as $CaCO_3$ + $MgCO_3$, $CaCO_3$ + $MgCO_3$ in dry matter
13	Al, As, B, Be, Ca, Cd, Co, Cr, Cu, Fe, K, Mg, Mo, Mn, Na, Ni, P, Pb, V, Zn
14	Al, B, Ca, Cu, Fe, K, Mg, Mn, P, S, Zn

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Ordinal test number	Detailed information on activities within the scope of accreditation (determined analytes)
4, 21	Expressed as N or as N in dry matter
23	Expressed as ash, ash in dry matter, combustible substances in dry matter
25	Expressed as P_2O_5
26	Expressed as sulphate form as S, SO_3^{2-} or SO_4^{2-}

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6. **ÚKZÚZ, NRL, Department of Special Plant and Feed Analysis**

Tests:

Ordinal number[1]	Test procedure / method name	Test procedure / method identification[2]	Tested subject	Degrees of freedom[3]
1	Testing of potato plants and varieties for the presence of viruses by ELISA method	JPP ÚKZÚZ, procedure No. 40310.1	Potato tuber and haulm	D
2	Determination of moisture by gravimetric method and calculation of dry matter	JPP ÚKZÚZ, procedure No. 10001.1	Animal feeding stuffs and raw materials for their production	D
3	Determination of moisture by gravimetric method and calculation of dry matter	JPP ÚKZÚZ, procedure No. 50010.1	Plant material	D
4	Determination of the content of nitrogen by titrimetric method and nitrogenous substances by calculation from measured values	JPP ÚKZÚZ, procedure No. 10014.1	Animal feeding stuffs and raw materials for their production, plant material	D
5	Determination of fat by gravimetric method	JPP ÚKZÚZ, procedure No. 10058.1	Animal feeding stuffs and raw materials for their production	D
6	Determination of fat in oil seeds by gravimetric method	JPP ÚKZÚZ, procedure No. 10060.1	Animal feeding stuffs and raw materials for their production	D
7	Determination of fibre by gravimetric method	JPP ÚKZÚZ, procedure No. 10068.1	Animal feeding stuffs and raw materials for their production, plant material	D
8	Determination of ash by gravimetric method	JPP ÚKZÚZ, procedure No. 10004.1	Animal feeding stuffs and raw materials for their production	D
9	Determination of starch by polarimetric method	JPP ÚKZÚZ, procedure No. 10083.1	Animal feeding stuffs and raw materials for their production	D
10	Determination of sugars by titrimetric method	JPP ÚKZÚZ, procedure No. 10084.1	Animal feeding stuffs and raw materials for their production, plant material	D

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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 total phosphorus by spectrophotometric method	JPP ÚKZÚZ, procedure No. 10128.1	Animal feeding stuffs and raw materials for their production	D
12	Determination of water-soluble chlorides as sodium chloride by titrimetric method	JPP ÚKZÚZ, procedure No. 10129.1	Animal feeding stuffs and raw materials for their production	D
13	Determination of amino acids by LC/UV method	JPP ÚKZÚZ, procedure No. 10021.1; procedure No. 10024.1	Animal feeding stuffs and raw materials for their production	D
14	Determination of the content of selected elements by FAAS method	JPP ÚKZÚZ, procedure No. 10325.1	Animal feeding stuffs and raw materials for their production	D
15	Determination of the content of selected elements by FAAS/FAES method	JPP ÚKZÚZ, procedure No. 10135.1	Animal feeding stuffs and raw materials for their production	D
16	Determination of vitamin A, E by HPLC/UV method	JPP ÚKZÚZ, procedure No. 10380.1	Animal feeding stuffs and raw materials for their production	D
17	Determination of robenidin and nicarbazin by HPLC/UV method	JPP ÚKZÚZ, procedure No. 10390.1; 10360.1	Animal feeding stuffs and raw materials for their production	D
18	Determination of selected feed additives by HPLC/UV method	JPP ÚKZÚZ, procedure No. 10350.1	Animal feeding stuffs and raw materials for their production	D
19	Determination of fatty acids in fats and oils by GC/FID method	JPP ÚKZÚZ, procedure No. 10040.1	Oil seeds, animal feeding stuffs and raw materials for their production	D
20	Determination of glucosinolates by HPLC/UV method	JPP ÚKZÚZ, procedure No. 10540.1	Rape seeds and products of their processing	D
21	Determination of arsenic by AAS HG method	JPP ÚKZÚZ, procedure No. 10430.1	Animal feeding stuffs and raw materials for their production	D

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Ordinal number[1]	Test procedure / method name	Test procedure / method identification[2]	Tested subject	Degrees of freedom[3]
22	Determination of cadmium and lead by AAS method	JPP ÚKZÚZ, procedure No. 10450.1	Animal feeding stuffs and raw materials for their production	D
23	Determination of mercury by spectrophotometric method	JPP ÚKZÚZ, procedure No. 10420.1	Animal feeding stuffs and raw materials for their production	D
24	Determination of phytase activity by spectrophotometric method	JPP ÚKZÚZ, procedure No. 10100.1	Animal feeding stuffs and raw materials for their production	D
25	Determination of total and free tryptophan by HPLC/FLD method	JPP ÚKZÚZ, procedure No. 10023.2	Animal feeding stuffs and raw materials for their production	D
26	Determination of methionin hydroxyanalogue by HPLC/UV method	JPP ÚKZÚZ, procedure No. 10330.1	Animal feeding stuffs and raw materials for their production	D

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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	Determined viruses: LR, Y, A, X, M, S (Bioreba AG)
13	Alanine, arginine, cystine, glycine, histidine, asparagine acid, glutamic acid, isoleucine, leucine, lysine, methionine, phenylalanine, proline, serine, taurine, threonine, tyrosine, valine
14	Cu, Mn, Fe, Zn
15	Na, K, Ca, Mg
18	Monensin, salinomycin and narasin
19	Capronic acid (C6:0), caprylic acid (C8:0), capric acid (C10:0), undecanoic acid (C11:0), lauric acid (C12:0), tridecanoic acid (C13:0), myristic acid (C14:0), myristoleic acid (C14:1),

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Ordinal test number	Detailed information on activities within the scope of accreditation (determined analytes)
	pentadecanoic acid (C15:0), cis-10-pentadecenoic acid (C15:1), palmitic acid (C16:0), palmiticoleic acid (C16:1), heptadecanoic acid (C17:0), cis-10-heptadecenoic acid (C17:1), stearic acid (C18:0), trans-9-elaidic acid (C18:1), cis-9-oleic acid (C18:1), trans, trans 9,12-linolelaidic acid (C18:2), cis,cis-9,12-linoleic acid (C18:2), arachic acid (C20:0), all cis-6,9,12-γ linolenic acid (C18:3), cis-9-gadoleic acid (C20:1), cis-11-gondic acid (C20:1), all cis-9,12,15-α linolenic acid (C18:3), heneicosanoic acid (C21:0), cis-11,14-eicosadienoic acid (C20:2), behenic acid (C22:0), all cis-8,11,14-eicosatrienoic acid (C20:3), cis-13-erucic acid (C22:1), all cis-5,8,11,14-arachidonic acid (C20:4), tricosanoic acid (C23:0), cis,cis-13,16-docosadienoic acid (C22:2), lignoceric acid (C24:0), all cis-5,8,11,14,17-eicosapentaenoic acid (EPA,C20:5), cis-15-nervonic acid (C24:1), all cis-4,7,10,13,16,19-docosahexaenoic acid (DHA,C22:6)
20	Glucorafanin, glucotropaeolin, glucoiberin, progoitrin, epiprogoitrin, sinigrin, gluconapoleiferin, glucoalyssin, gluconapin, 4-hydroxyglucobrassicin, glucobrassicanapin, 4-methoxyglucobrassicin, gluconasturtiin, gluconeobrassicin, glucobrassicin

7. **ÚKZÚZ, NRL, Department of microbiology and biochemistry**

Tests:

Ordinal number[1]	Test procedure / method name	Test procedure / method identification[2]	Tested subject	Degrees of freedom[3]
1	Detection of GMO by PCR method	JPP ÚKZÚZ, procedure No. 60071.1; procedure No. 10251.1; procedure No. 10252.1; procedure No. 10253.1; procedure No. 10700.1; procedure No. 10254.1; procedure No. 10255.1; procedure No. 10257.1; procedure No. 10258.1; procedure No. 10259.1	Animal feeding stuffs and raw materials for their production	B, D

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Ordinal number[1]	Test procedure / method name	Test procedure / method identification[2]	Tested subject	Degrees of freedom[3]
2	Detection of GMO by PCR method	JPP ÚKZÚZ, procedure No. 60072.1; procedure No. 10251.1; procedure No. 10252.1; procedure No. 10253.1; procedure No. 10700.1; procedure No. 10254.1; procedure No. 10255.1; procedure No. 10257.1; procedure No. 10258.1; procedure No. 10259.1	Seed	B, D
3	Detection of GMO by PCR method	JPP ÚKZÚZ, procedure No. 60073.1; procedure No. 60074.1; procedure No. 10251.1; procedure No. 10252.1; procedure No. 10253.1; procedure No. 10700.1; procedure No. 10254.1; procedure No. 10255.1; procedure No. 10257.1; procedure No. 10258.1; procedure No. 10259.1	Vegetative parts of plants	B, D
4	Qualitative determination of screening elements and genetic modifications by qPCR method	JPP ÚKZÚZ, procedure No. 10262.1; procedure No. 10262.2; procedure No. 10263.1	Animal feeding stuffs and raw materials for their production	B, D
5	Qualitative determination of screening elements and genetic modifications by qPCR method	JPP ÚKZÚZ, procedure No. 10262.1; procedure No. 10262.2; procedure No. 10263.1	Seed	B, D
6	Qualitative determination of screening elements and genetic modifications by qPCR method	JPP ÚKZÚZ, procedure No. 10262.1; procedure No. 10262.2; procedure No. 10263.1	Vegetative parts of plants	B, D
7	Quantitative determination of genetic modifications by qPCR method	JPP ÚKZÚZ, procedure No. 10264.1; procedure No. 10264.2; procedure No. 10265.1	Animal feeding stuffs and raw materials for their production	B, D

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Ordinal number[1]	Test procedure / method name	Test procedure / method identification[2]	Tested subject	Degrees of freedom[3]
8	Quantitative determination of genetic modifications by qPCR method	JPP ÚKZÚZ, procedure No. 10264.1; procedure No. 10264.2; procedure No. 10265.1	Seed	B, D
9	Quantitative determination of genetic modifications by qPCR method	JPP ÚKZÚZ, procedure No. 10264.1; procedure No. 10264.2; procedure No. 10265.1	Vegetative parts of plants	B, D

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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	Determined screening elements: alcohol dehydrogenase C, UDP-glucose pyrophosphorylase, starch invertase, phospholipase D, gene coding I/Y group of proteins, cruciferin A, soy lectin, promotor 35S, terminator NOS, promotor FMV, bar, Cry1Ab, Ctp2-cp4epsps, cp4 epsps, nptII, pat, CaMV. Determined transgenes: Cotton: 281-24-236 x 3006-210-23, GHB119, GHB614, LLCotton25, MON531, MON1445, MON15985, MON88913, T304-40, MON88701, DAS81910-7. Potato: EH-92-527-1. Corn: Bt11, Bt176, CBH351, DAS1507, DAS40278, DAS59122, GA21, GAT 98140, MIR604, MIR162, MON810, MON863, MON87460, MON88017, MON89034, NK603, T25, 3272, MON 87427, 5307, VCO-01981-5, DP4114-3, MON87403, MON87411, MZIR098, MON87429, MZHG0JG. Rice: Bt63, LL601, LL62. Rape: GT73, MS1xRF1, MS1xRF2, MS8xRf3, T45, TOPAS19/2 (HCN92), DP073496, MS11.

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Ordinal test number	Detailed information on activities within the scope of accreditation (determined analytes)
	Soya: A2704-12, A5547-127, BPS-CV127-9, DP305423-1, DP356043, FG72, MON40-3-2, MON87701, MON87705, MON87708, MON89788, DAS 68416-4, MON 87769, DAS 81419-2, DAS 44406-6, MON87751, SYHT0H2, GMB151.
2	Determined screening elements: alcohol dehydrogenase C, UDP-glucose pyrophosphorylase, starch invertase, phospholipase D, gene coding I/Y group of proteins, cruciferin A, soy lectin, promotor 35S, terminator NOS, promotor FMV, bar, Cry1Ab, Ctp2-cp4epsps, cp4 epsps, nptII, pat, CaMV. Determined transgenes: Corn: Bt11, Bt176, CBH351, DAS1507, DAS40278, DAS59122, GA21, GAT 98140, MIR604, MIR162, MON810, MON863, MON87460, MON88017, MON89034, NK603, T25, 3272, MON 87427, 5307, VCO-01981-5, DP4114-3, MON87403, MON87411, MZIR098, MON87429, MZHG0JG. Rape: GT73, MS1xRF1, MS1xRF2, MS8xRf3, T45, TOPAS19/2 (HCN92), DP073496, MS11. Soya: A2704-12, A5547-127, BPS-CV127-9, DP305423-1, DP356043, FG72, MON40-3-2, MON87701, MON87705, MON87708, MON89788, DAS 68416-4, MON 87769, DAS 81419-2, DAS 44406-6, MON87751, SYHT0H2, GMB151.
3	Determined screening elements: alcohol dehydrogenase C, UDP-glucose pyrophosphorylase, starch invertase, phospholipase D, gene coding I/Y group of proteins, cruciferin A, soy lectin, promotor 35S, terminator NOS, promotor FMV, bar, Cry1Ab, Ctp2-cp4epsps, cp4 epsps, nptII, pat, CaMV. Determined transgenes: Potatoes: EH-92-527-1. Corn: Bt11, Bt176, CBH351, DAS1507, DAS40278, DAS59122, GA21, GAT 98140, MIR604, MIR162, MON810, MON863, MON87460, MON88017, MON89034, NK603, T25, 3272, MON 87427, 5307, VCO-01981-5, DP4114-3, MON87403, MON87411, MZIR098, MON87429, MZHG0JG. Rape: GT73, MS1xRF1, MS1xRF2, MS8xRf3, T45, TOPAS19/2 (HCN92), DP073496, MS11. Soya: A2704-12, A5547-127, BPS-CV127-9, DP305423-1, DP356043, FG72, MON40-3-2, MON87701, MON87705, MON87708, MON89788, DAS 68416-4, MON 87769, DAS 81419-2, DAS 44406-6, MON87751, SYHT0H2, GMB151.
4, 5, 6	Determined screening elements: bar. Determined transgenes: Corn: GAT 98140, MON810. Soya: MON40-3-2, MON89788, MON87701.

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Ordinal test number	Detailed information on activities within the scope of accreditation (determined analytes)
7, 8, 9	Determined transgenes: Corn: MON810. Soya: MON40-3-2, MON89788, MON87701.

8. **ÚKZÚZ, NRL, Division of Plant Pest Diagnostics, Department of Plant Pest Diagnostics Olomouc**

Tests:

Ordinal number[1]	Test procedure / method name	Test procedure / method identification[2]	Tested subject	Degrees of freedom[3]
1	Detection of plant viruses by ELISA method	SOP-M-01, excluding section 7.2 (According to the kit manufacturer´s instructions)	Plant material, seed, insects	A
2	Detection of plant viruses by bioassay	SOP-M-01, excluding section 7.1	Plant material, seed	A
3	Detection and identification of fungal and fungi-like organisms by light microscopy method	SOP-M-06, excluding section 7.2.4	Plant material, seed, substrates, soil, cultures of fungal and fungi-like organisms, water, fruiting bodies	A
4	Detection and identification of fungal and fungi-like organisms by cultivation methods	SOP-M-06, excluding sections 7.2.4, 7.2.5	Plant material, seed, cultures of fungal and fungi-like organisms, fruiting bodies	A
5	Detection and identification of fungal and fungi-like organisms by bioassay	SOP-M-06, excluding sections 7.2.1, 7.2.2, 7.2.3, 7.2.5	Plant material, seed, substrates, soil, water	A
6	Detection and identification of selected species of the genus *Tilletia* by light microscopy method	SOP-M-44	Plant material, seed	-

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Ordinal number[1]	Test procedure / method name	Test procedure / method identification[2]	Tested subject	Degrees of freedom[3]
7	Detection, identification and presence confirmation of phytopathogenic bacteria by cultivation method	SOP-M-48, excluding sections 7.3.4, 7.3.7, 7.3.8, 7.3.9, 7.3.10	Plant material, bacterial cultures, seed, soil	A
8	Detection, identification and presence confirmation of phytopathogenic bacteria by gas chromatography	SOP-M-48, excluding sections 7.3.4, 7.3.8, 7.3.9, 7.3.10	Plant material, bacterial cultures, seed, soil	A
9	Detection, identification and presence confirmation of phytopathogenic bacteria by BIOLOG spectrophotometric method	SOP-M-48, excluding sections 7.3.4, 7.3.7, 7.3.9, 7.3.10	Plant material, bacterial cultures, seed, soil	A
10	Detection, identification and presence confirmation of phytopathogenic bacteria by MALDI-TOF mass spectrometry method	SOP-M-48, excluding sections 7.3.4, 7.3.7, 7.3.8, 7.3.10	Plant material, bacterial cultures, seed, soil	A
11	Detection, identification and presence confirmation of phytopathogenic bacteria by biological test	SOP-M-48, excluding sections 7.3.4, 7.3.7, 7.3.8, 7.3.9	Plant material, bacterial cultures, seed, soil	A
12	Detection and identification of phytophagous, mycophagous and free-living nematodes by light microscopy method	SOP-M-81	Plant material, wood, seed, substrates, soil, insects, sludge, nematodes	A
13	Detection of cysts and identification of golden potato cyst nematode *(Globodera rostochiensis)* and white potato cyst nematode *(Globodera pallida)* by light microscopy method	SOP-M-82	Substrates, soil, rinse water, sludge, nematodes	A

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Ordinal number[1]	Test procedure / method name	Test procedure / method identification[2]	Tested subject	Degrees of freedom[3]
14	Detection and identification of *Ditylenchus dipsaci* and *Ditylenchus destructor* by light microscopy method	SOP-M-83	Plant material, seed, substrates, soil, sludge, nematodes	-
15	Detection and identification of plant pests by real-time PCR method	SOP-M-30	Plant material, seed, fungi and fungi-like organisms, bacteria, arthropods, nematodes, irrigation and wastewater, soil, DNA and RNA	A, B
16	Diagnostics of plant pests by nucleic acid sequencing method	SOP-M-31	Plant material, seed, fungi and fungi-like organisms, bacteria, arthropods, nematodes, irrigation and wastewater, DNA and RNA	A, B
17	Detection and identification of plant pests by conventional PCR method	SOP-M-33	Plant material, seed, fungi and fungi-like organisms, bacteria, arthropods, nematodes, irrigation and wastewater, DNA and RNA	A, B
18	Detection and identification of permanent zoosporangia of *Synchytrium endobioticum*, the causal agent of potato wart disease, by light microscopy method	SOP-M-69, excluding section 7.1.4	Soil, substrates, plant material	-

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Ordinal number[1]	Test procedure / method name	Test procedure / method identification[2]	Tested subject	Degrees of freedom[3]
19	Detection and identification of permanent zoosporangia of *Synchytrium endobioticum*, the causal agent of potato wart disease, by light microscopy method	SOP-M-69, excluding section 7.1.3	Soil, substrates, plant material	-
20	Detection and identification of phytophagous, saprophagous and predatory insects and mites by light microscopy method	SOP-M-40	Plant material, wood, seed, substrates, insects, mites	A
21	Detection and identification of storage pests by light microscopy method	SOP-M-50	Cereals, oilseeds, legumes, seed, tea, cocoa, chocolate, dried fruit, dried herbs, dried spices, pasta, nuts, cotton, flax fiber, sheep wool	A

[1] asterisk at the ordinal number identifies the tests, which the laboratory is qualified to carry out outside the permanent laboratory premises; the numerical index at the test ordinal number identifies the location carrying out the test (the identification of the locations is given on the first page of this document)

[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] degree 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.

Specification of the scope of accreditation:

Ordinal test number	Detailed information on activities within the scope of accreditation (determined analytes)
1	List of organisms tested: ELISA kits for the diagnostics of plant viruses from manufacturers: Agdia, Bioreba, Creative Diagnostics, DSMZ, Loewe, Neogen, Sediag, Prime Diagnostics.
6	List of identified species of the genus *Tilletia: Tilletia controversa*, *Tilletia tritici*, *Tilletia indica, Tilletia foetida.*

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Ordinal test number	Detailed information on activities within the scope of accreditation (determined analytes)
15	List of organisms tested: Bacteria: *Candidatus* Liberibacter africanus, *Candidatus* Liberibacter americanus, *Candidatus* Liberibacter asiaticus, *Candidatus* Liberibacter solanacearum, *Clavibacter insidiosus*, *Erwinia amylovora*, *Xylella fastidiosa*, *Xylella fastidiosa* subsp. *fastidiosa*, *Xylella fastidiosa* subsp. *morus*, *Xylella fastidiosa* subsp. *multiplex*, *Xylella fastidiosa* subsp. *pauca*, *Xylella fastidiosa* subsp. *sandyi*, *Xanthomonas campestris.* Phytoplasmas Fungi*: Verticillium nonalfalfae*, *Verticillium dahliae, Synchytrium endobioticum* Viruses: blackcurrant reversion virus, chrysanthemum stem necrosis virus, gooseberry vein banding associated virus, little cherry virus 1, little cherry virus 2, olive latent virus 1, rose rosette virus, strawberry mild yellow edge virus, strawberry crinkle virus, strawberry virus 1, strawberry vein banding virus, strawberry mottle virus, strawberry polerovirus 1, tomato brown rugose fruit virus, tomato chlorosis virus, tomato infectious chlorosis virus, tomato mottle mosaic virus, tomato ringspot virus.
16, 17	List of organisms tested: Bacteria: *Acidovorax citrulli*, *Candidatus* Liberibacter africanus, *Candidatus* Liberibacter americanus, *Candidatus* Liberibacter asiaticus, *Candidatus* Liberibacter solanacearum, *Clavibacter michiganensis* subsp. *michiganensis*, *Clavibacter sepedonicus*, *Curtobacterium flaccumfaciens* pv. *flaccumfaciens*, *Dickeya* spp., *Erwinia amylovora*, *Pantoea ananatis*, *Pantoea stewartii* subsp. *stewartii*, *Pectobacterium atrosepticum*, *Pectobacterium carotovorum* subsp. *carotovorum*, *Pseudomonas savastanoi* pv. *glycinea*, *Pseudomonas syringae* pv. *actinidiae*, *Pseudomonas syringae* pv. *aesculi*, *Pseudomonas syringae* pv. *morsprunorum*, *Ralstonia pseudosolanacearum* (phylotypes I, III), *Ralstonia solanacearum*, *Ralstonia syzygii*, *Xanthomonas* spp., *Xylella fastidiosa*, *Xylophilus ampelinus.* Phytoplasmas Fungi Chromista: *Phytophthora* spp., *Pythium* spp. Viruses: apple stem grooving virus, apple stem pitting virus, barley yellow mosaic virus, *Begomovirus* spp., *Nepovirus* spp. – subgroup A and B, *Orthotospovirus* spp., pepino mosaic virus, *Potyvirus* spp., rose rosette virus, *Tobamovirus* spp., tomato marchitez virus, tomato torrado virus, tomato chocolate spot virus, tomato chocolàte virus, tomato mild mottle virus, wheat streak mosaic virus, prunus necrotic ringspot virus, prune dwarf virus Viroids: citrus bark cracking viroid, hop stunt viroid, hop latent viroid, *Pospiviroid* spp. Animalia: arthropods, nematodes.

Specification of the scope of accreditation:

Ordinal test number	Detailed information on activities within the scope of accreditation (source literature)
1	PM 7/125 ELISA tests for viruses. Relevant EPPO diagnostic standards: https://www.eppo.int/RESOURCES/eppo_standards/pm7_diagnostics
2	PM 7/153 Mechanical inoculation of test plants. Relevant EPPO diagnostic standards: https://www.eppo.int/RESOURCES/eppo_standards/pm7_diagnostics
3, 4	CBS Course of Mycology, W. Gams, E. S. Hoekstra, A. Aptroot, 4th Edition 1998, ISBN 90-70351-36-6, Basic Plant Pathology Methods, O.D. Dhingra, J.B. Sinclair, 2nd Edition, 1995, SBN0-87371-638-8, Černý Alois (1989): Parazitické dřevokazné houby, Státní zemědělské nakladatelství Praha, 104 pages. Relevant EPPO diagnostic standards: hhttps://www.eppo.int/RESOURCES/eppo_standards/pm7_diagnostics

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Ordinal test number	Detailed information on activities within the scope of accreditation (source literature)
5	CBS Course of Mycology, W. Gams, E. S. Hoekstra, A. Aptroot, 4th Edition 1998, ISBN 90-70351-36-6, Basic Plant Pathology Methods, O.D. Dhingra, J.B. Sinclair, 2nd Edition, 1995, SBN0-87371-638-8, Černý Alois (1989): Parazitické dřevokazné houby, Státní zemědělské nakladatelství Praha, 104 pages. Relevant EPPO diagnostic standards: https://www.eppo.int/RESOURCES/eppo_standards/pm7_diagnostics Relevant ISTA methods: https://www.seedtest.org/en/seed-health-methods-_content---1--1452.html
6	Kochanová, M., Prokinová, E., Metody diagnostiky *Tilletia* spp. v teorii a praxi, 2004, ČFS. 68 p. Relevant EPPO diagnostic standards: https://www.eppo.int/RESOURCES/eppo_standards/pm7_diagnostics
7	Relevant procedures pursuant to ISTA: https://www.seedtest.org/en/seed-health-methods-_content---1--1452.html Kůdela, V., Novacky, A., & Fucikovsky, L. (2002). *Rostlinolékařská bakteriologie*. Academia. Relevant EPPO diagnostic standards: https://www.eppo.int/RESOURCES/eppo_standards/pm7_diagnostics
8	Operating manual of gas chromatograph (HP 6890) Relevant EPPO diagnostic standards: https://www.eppo.int/RESOURCES/eppo_standards/pm7_diagnostics
9	BIOLOG Microstation™ System/Microlog™ User´s Guide. Relevant EPPO diagnostic standards: https://www.eppo.int/RESOURCES/eppo_standards/pm7_diagnostics
10	MALDI biotyper 3.0 manual by Bruker. Relevant EPPO diagnostic standards: https://www.eppo.int/RESOURCES/eppo_standards/pm7_diagnostics
11	Relevant procedures pursuant to ISTA: https://www.seedtest.org/en/seed-health-methods-_content---1--1452.html Kůdela, V., Novacky, A., & Fucikovsky, L. (2002). *Rostlinolékařská bakteriologie*. Relevant EPPO diagnostic standards: https://www.eppo.int/RESOURCES/eppo_standards/pm7_diagnostics
12	Van Benzooien, J., Methods and techniques for nematology. Wageningen, 2006, 112 pp. Relevant EPPO diagnostic standards: https://www.eppo.int/RESOURCES/eppo_standards/pm7_diagnostics
13	Commission Implementing Regulation (EU) 2022/1192 of 11 July 2022 establishing measures to eradicate and prevent the spread of *Globodera pallida* (Stone) Behrens and *Globodera rostochiensis* (Wollenweber) Behrens. Van Benzooien, J., Methods and techniques for nematology. Wageningen, 2006, 112 p., EPPO PM 7/40 *Globodera rostochiensis* and *G. pallida*
14	EPPO PM 7/87 *Ditylenchus destructor* and *Ditylenchus dipsaci*, Brzeski M. W. (1998): Nematodes of *Tylenchina* in Poland and temperate Europe. Muzeum i Instytut Zoologii Polska Akademia Nauk, Warsaw, Poland, 395 p.
15	Commission Implementing Regulation (EU) 2020/1191 of 11 August 2020 establishing measures to prevent the introduction into and the spread within the Union of Tomato brown rugose fruit virus (ToBRFV) and repealing Implementing Decision (EU) 2019/1615, as amended. Commission Implementing Regulation (EU) 2020/1201 of 14 August 2020 as regards measures to prevent the introduction into and the spread within the Union of Xylella fastidiosa (Wells et al.), as amended. List of source literature in the relevant work procedures. Relevant EPPO diagnostic standards: https://www.eppo.int/RESOURCES/eppo_standards/pm7_diagnostics
16	EPPO PM 7/129 DNA barcoding as an identification tool for a number of regulated pests Relevant EPPO diagnostic standards: https://www.eppo.int/RESOURCES/eppo_standards/pm7_diagnostics
17	List of source literature in the relevant work procedures. Relevant EPPO diagnostic standards: https://www.eppo.int/RESOURCES/eppo_standards/pm7_diagnostics
18, 19	Karling J.S. (1964): *Synchytrium*. Academic press, 470p., EPPO PM 7/28 *Synchytrium endobioticum*. Commission Implementing Regulation (EU) 2022/1195 of 11 July 2022 establishing measures to eradicate and prevent the spread of Synchytrium endobioticum (Schilbersky) Percival.

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Ordinal test number	Detailed information on activities within the scope of accreditation (source literature)
20	LELLÁKOVÁ, F. Zoologická technika. 1. vyd. Praha: Universita Karlova, 1985. 122 s. Relevant EPPO diagnostic standards: https://www.eppo.int/RESOURCES/eppo_standards/pm7_diagnostics
21	Act No. 219/2003 Sb., on the marketing of seeds and planting materials of cultivated plants and on amendments to certain acts. Decree No. 129/2012 Sb., on details of the marketing of seeds and planting materials of cultivated plants, as amended. Decree No. 61/2011 Sb., laying down requirements for sampling, procedures and methods for testing seeds and planting materials, as amended. Bartoš, J., Verner, P.H., Pulpán, J., Boj proti skladištním škůdcům, Státní zemědělské nakladatelství Praha, 1961. Stejskal, V., Ph.D. a kol., Detekce kontaminace skladovaných obilovin a cereálních produktů škůdci pomocí fyzikálně-chemických technik, metodika pro útvary státní správy, Výzkumný ústav rostlinné výroby, v.v.i., Praha, 2007. Relevant EPPO diagnostic standards: https://www.eppo.int/RESOURCES/eppo_standards/pm7_diagnostics

9. **ÚKZÚZ, NRL, Department of Testing Plant Protection Products**

Tests:

Ordinal number[1]	Test procedure / method name	Test procedure / method identification[2]	Tested subject	Degrees of freedom[3]
1	Determination of density by tensiometric method	SOP-FCH-07-01 (CIPAC MT 3.1; CIPAC MT 3.3.1)	Plant protection products – liquid formulations	D
2	Determination of pH by potentiometric method	SOP-FCH-07-02 (CIPAC MT 75.3)	Plant protection products	D
3	Determination of remains on sieve by gravimetric method	SOP-FCH-07-07 (CIPAC MT 185)	Plant protection products applicable as dispersion in water	D
4	Determination of wetting by visual method	SOP-FCH-07-05 (CIPAC MT 53.3.1)	Plant protection products – wettable powders and granulates	D
5	Determination of water pursuant to Karl Fischer	SOP-CH-07-01 (CIPAC MT 30.5)	Plant protection products, whose active substances or formulants do not react with reagent used	D
6	Determination of stability of pesticide aqueous solutions after dilution by visual method	SOP-FCH-07-06 (CIPAC MT 41.1)	Plant protection products – aqueous solutions	D

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Ordinal number[1]	Test procedure / method name	Test procedure / method identification[2]	Tested subject	Degrees of freedom[3]
7	Determination of stability of liquid formulations at 0 °C by visual method	SOP-FCH-07-03 (CIPAC MT 39.3)	Plant protection products – liquid formulations	D
8	Determination of particle size distribution by laser diffraction method	SOP-FCH-08-01 (CIPAC MT 187)	Plant protection products	D
9	Determination of remains on sieve by gravimetric method	SOP-FCH-08-03 (CIPAC MT 167)	Plant protection products applicable as dispersion in water	D
10	Determination of pourability of (the residue R) and the rinsed residue (r) by gravimetric method	SOP-FCH-08-02 (CIPAC MT 148; CIPAC MT 148.1)	Plant protection products – liquid formulations	D
11	Determination of persistent foaming by visual method	SOP-FCH-10-01 (CIPAC MT 47.2, 47.3)	Plant protection products	D
12	Determination of emulsion stability of EC and EW formulations by visual method	SOP-FCH-10-02 (CIPAC MT 36.3)	Plant protection products – emulsifiable concentrates and oil type emulsions in water	D
13	Determination of sulphate ash by gravimetric method	SOP-FCH-17-01 (CIPAC MT 29)	Plant protection products	D
14	Determination of surface tension by tensiometric method	SOP-FCH-17-02 (OECD 115)	Plant protection products	-
15	Determination of dispersibility of water dispersible granules by gravimetric method	SOP-FCH-19-01 (CIPAC MT 174)	Plant protection products	D
16	Determination of density by oscillating U-tube method	SOP-FCH-24-01	Plant protection products – liquid formulations	D
17	Determination of xylene in EC formulations by GC/FID method	SOP-CH-07-02	Plant protection products – emulsifiable concentrates	D
18	Determination of dibasic and tribasic alcohols by GC/FID method	SOP-CH-14-01	Plant protection products	B

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Ordinal number[1]	Test procedure / method name	Test procedure / method identification[2]	Tested subject	Degrees of freedom[3]
19	Determination of toluene by HS-GC/FID method	SOP-CH-17-01 (CIPAC MT 198)	Plant protection products	D
20	Determination of formulation additives and impurities in PPP by GC-MS method	SOP-CH-19-01	Plant protection products	B
21	Determination of active substances in PPP by GC/FID method	SOP-CH-19-02	Plant protection products	B
22	Determination of active substances in PPP by LC/UV method	SOP-CH-19-03	Plant protection products	B
23	Determination of dustiness of granulated formulations by gravimetric method	SOP-FCH-19-06 (CIPAC MT 171.1)	Plant protection products	D
24	Determination of solubility and stability of the solution by gravimetric method	SOP-FCH-19-05 (CIPAC MT 179, 179.1)	Plant protection products	D
25	Determination of dispersed stability of suspoemulsions by visual method	SOP-FCH-19-04 (CIPAC MT 180)	Plant protection products	D
26	Determination of suspensibility of formulations forming suspensions on dilution with water by gravimetric method	SOP-FCH-19-02 (CIPAC MT 184, 184.1)	Plant protection products	D
27	Determination of suspensibility of formulations forming suspensions on dilution with water by GC/FID method	SOP-FCH-19-02 (CIPAC MT 184, 184.1)	Plant protection products	B

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Hroznová 63/2, Pisárky, 603 00 Brno

Ordinal number[1]	Test procedure / method name	Test procedure / method identification[2]	Tested subject	Degrees of freedom[3]
28	Determination of suspensibility of formulations forming suspensions on dilution with water by LC/UV method	SOP-FCH-19-02 (CIPAC MT 184, 184.1)	Plant protection products	B
29	Determination of spontaneity of dispersion of suspension concentrates by GC/FID method	SOP-FCH-19-03 (CIPAC MT 160)	Plant protection products	B
30	Determination of spontaneity of dispersion of suspension concentrates by LC/UV method	SOP-FCH-19-03 (CIPAC MT 160)	Plant protection products	B
31	Determination of density by pycnometric method	SOP-FCH-23-01 (CIPAC MT 3.2.1)	Plant protection products – liquid formulations	D
32	Determination of density by bottle method	SOP-FCH-21-01 (CIPAC MT 3.3.2)	Plant protection products – liquid formulations	D
33	Determination of formulation additives and impurities in PPP by GC/FID method	SOP-CH-22-01	Plant protection products	B
34	Determination of formulation additives and impurities in PPP by LC-MS method	SOP-CH-23-01	Plant protection products	B

[1] asterisk at the ordinal number identifies the tests, which the laboratory is qualified to carry out outside the permanent laboratory premises; the numerical index at the test ordinal number identifies the location carrying out the test (the identification of the locations is given on the first page of this document)

[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] degree 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.

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Specification of the scope of accreditation:

Ordinal test number	Detailed information on activities within the scope of accreditation (determined analytes)
18	Propylene glycol, ethylene glycol, glycerol, 1,6-hexanediol
20	1,2,3-TMB, 1,2,4-TMB, 1-butanol, 1-methylnaphtalene, 1-pentanol, 2-ethyl-1-hexanol, 2-methyl-1-butanol, 2-methylnaphthalene, 1-methyl-2-pyrollidone, acetophenone, benzyl alcohol, butyl glycol, butylated hydroxytoluene, cumene, cyclohexanone, diacetone alcohol, dimethyl adipate, dimethyl glutarate, dimethyl succinate, EMS, ethylbenzene, gamma-butyrolactone, IBMS, isobutanol, isopropyl myristate, mesitylene, methyl octanoate, naphthalene, phenetole, propylene carbonate, toluene, xylene
21	2,4-D EHE, aclonifen, ametryn, azoxystrobin, bixafen, clomazone, cyflufenamid, cypermethrin, cyproconazole, deltamethrin, difenoconazole, diflufenican, dimethachlor, dimethenamid-P, dimoxystrobin, epoxiconazole, fenhexamid, fludioxonil, flurochloridon, fluroxypyr-meptyl, lambda-cyhalothrin, metalaxyl-M, metamitron, metazachlor, metconazole, metolachlor, metribuzin, myclobutanil, napropamid, paclobutrazol, pendimethalin, permethrin, pethoxamid, piperonyl butoxide, pirimiphos-methyl, propiconazole, prosulfocarb, pyraclostrobin, pyraflufen-ethyl, quizalofop-P-ethyl, silthiofam, spiroxamin, tebuconazole, terbuthylazine, thiabendazole, trifloxystrobin, trifluralin, trinexapac-ethyl, zoxamide
22	2,4-D, acetamiprid, aclonifen, ametoctradin, azoxystrobin, bentazone, boscalid, captan, clomazone, cloquintocet-mexyl, cymoxanil, cypermethrin, cyproconazole, cyprodinil, deltamethrin, dicamba, difenoconazole, diflufenican, dimethachlor, dimethenamid-P, dimethomorph, dimoxystrobin, dithianon, epoxiconazole, fenhexamid, fipronil, florasulam, fludioxonil, flufenacet, flumioxazin, fluroxypyr-meptyl, flurprimidol, folpet, giberelin, hexythiazox, chlortoluron, imazamox, imidacloprid, isofetamid, isoxaben, cyazofamid, lambda-cyhalothrin, mandipropamid, mecoprop-P, mefentrifluconazole, metamitron, metazachlor, metconazole, metrafenon, metribuzin, napropamid, paclobutrazol, pendimethalin, permethrin, pethoxamid, phenmedipham, picloram, pinoxaden, prosulfocarb, prothioconazole, pyraclostrobin, pyridate, quizalofop-p-ethyl, sedaxane, silthiofam, s-metolachlor, spinetoram, spinosad, spirotetramat, tau-fluvalinate, tebuconazole, tefluthrin, terbuthylazine, thiacloprid, thimethoxam, thiophanate-methyl, triclopyr, trifloxystrobin, trifluralin, triflusulfuron-methyl, trinexapac-ethyl, triticonazole, zoxamide
27	2,4-D EHE, aclonifen, ametryn, azoxystrobin, bixafen, clomazone, cyflufenamid, cypermethrin, cyproconazole, deltamethrin, difenoconazole, diflufenican, dimethachlor, dimethenamid-P, dimoxystrobin, epoxiconazole, ethofumesate, fenhexamid, fludioxonil, flurochloridone, fluroxypyr-meptyl, lambda-cyhalothrin, metalaxyl-M, metamitron, metazachlor, metconazole, metolachlor, metribuzin, myclobutanil, napropamid, paclobutrazol, pendimethalin, permethrin, pethoxamid, piperonyl butoxide, pirimiphos-methyl, propiconazole, prosulfocarb, pyraclostrobin, pyraflufen-ethyl, quizalofop-P-ethyl, silthiofam, spiroxamin, tebuconazole, terbuthylazine, thiabendazole, trifloxystrobin, trifluralin, trinexapac-ethyl, zoxamide
28	2,4-D, acetamiprid, aclonifen, ametoctradin, azoxystrobin, bentazone, boscalid, captan, clomazone, cloquintocet-mexyl, cymoxanil, cypermethrin, cyproconazole, cyprodinil,

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Ordinal test number	Detailed information on activities within the scope of accreditation (determined analytes)
	deltamethrin, dicamba, difenoconazole, diflufenican, dimethachlor, dimethenamid-P, dimethomorph, dimoxystrobin, dithianon, epoxiconazole, fenhexamid, fipronil, florasulam, fludioxonil, flufenacet, flumioxazin, fluroxypyr-meptyl, flurprimidol, folpet, giberelin, hexythiazox, chlortoluron, imazamox, imidacloprid, isofetamid, isoxaben, cyazofamid, lambda-cyhalothrin, mandipropamid, mecoprop-P, mefentrifluconazole, metamitron, metazachlor, metconazole, metrafenon, metribuzin, napropamid, paclobutrazol, pendimethalin, permethrin, pethoxamid, phenmedipham, picloram, pinoxaden, prosulfocarb, prothioconazole, pyraclostrobin, pyridate, quizalofop-p-ethyl, sedaxane, silthiofam, s-metolachlor, spinetoram, spinosad, spirotetramat, tau-fluvalinate, tebuconazole, tefluthrin, terbuthylazine, thiacloprid, thimethoxam, thiophanate-methyl, triclopyr, trifloxystrobin, trifluralin, triflusulfuron-methyl, trinexapac-ethyl, triticonazole, zoxamide
29	2,4-D EHE, aclonifen, ametryn, azoxystrobin, bixafen, clomazone, cyflufenamid, cypermethrin, cyproconazole, deltamethrin, difenoconazole, diflufenican, dimethachlor, dimethenamid-P, dimoxystrobin, epoxiconazole, ethofumesate, fenhexamid, fludioxonil, flurochloridone, fluroxypyr-meptyl, lambda-cyhalothrin, metalaxyl-M, metamitron, metazachlor, metconazole, metolachlor, metribuzin, myclobutanil, napropamid, paclobutrazol, pendimethalin, permethrin, pethoxamid, piperonyl butoxide, pirimiphos-methyl, propiconazole, prosulfocarb, pyraclostrobin, pyraflufen-ethyl, quizalofop-P-ethyl, silthiofam, spiroxamin, tebuconazole, terbuthylazin, thiabendazole, trifloxystrobin, trifluralin, trinexapac-ethyl, zoxamide
30	2,4-D, acetamiprid, ametoctradin, aclonifen, azoxystrobin, bentazone, boscalid, captan, clomazone, cloquintocet-mexyl, cymoxanil, cypermethrin, cyproconazole, cyprodinil, deltamethrin, dicamba, difenoconazole, diflufenican, dimethachlor, dimethenamid-P, dimethomorph, dimoxystrobin, dithianon, epoxiconazole, fenhexamid, fipronil, florasulam, fludioxonil, flufenacet, flumioxazin, fluroxypyr-meptyl, flurprimidol, folpet, giberelin, hexythiazox, chlortoluron, imazamox, imidacloprid, isofetamid, isoxaben, cyazofamid, lambda-cyhalothrin, mandipropamid, mecoprop-P, mefentrifluconazole, metamitron, metazachlor, metconazole, metrafenon, metribuzin, napropamid, paclobutrazol, pendimethalin, permethrin, pethoxamid, phenmedipham, picloram, pinoxaden, prosulfocarb, prothioconazole, pyraclostrobin, pyridate, quizalofop-p-ethyl, sedaxane, silthiofam, s-metolachlor, spinetoram, spinosad, spirotetramat, tau-fluvalinate, tebuconazole, tefluthrin, terbuthylazine, thiacloprid, thimethoxam, thiophanate-methyl, triclopyr, trifloxystrobin, trifluralin, triflusulfuron-methyl, trinexapac-ethyl, triticonazole, zoxamide
33	1-butanol, 1-methyl-2-pyrrolidone, 1-octanol, 1-pentanol, 2-ethyl-1-hexanol, 2-ethylhexyl-S-lactate, 2-methyl-1-butanol, acetophenone, benzyl alcohol, benzyl benzoate, butylated hydroxytoluene, cyclohexanone, cumene, diaceton alcohol, dipropropylenglycol monomethylether, gamma-butyrolactone, isopropyl myristate, methyl octanoate, N,N-dimethyldecanamide, N,N-dimethylacetamide, N-octyl-2-pyrrolidone, n-propyl-S-lactate, phenetole, propylene carbonate, tris-2-ethylhexylphosphate

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Hroznová 63/2, Pisárky, 603 00 Brno

Ordinal test number	Detailed information on activities within the scope of accreditation (determined analytes)
34	1,2,4-(1H)-triazole, 1,2-benzisothiazol-3-one, 2-methyl-4-isothiazolin-3-one, 5-chloro-2-methyl-2h-isothiazolin-3-one, Z-isomer azoxystrobin, 2,4-difluoroaniline (2,4-DFA), atrazine, propazine, simazine

10. **ÚKZÚZ, NRL, Division of Plant Pest Diagnostics, Department of Plant Pest Diagnostics Havlíčkův Brod**

Tests:

Ordinal number[1]	Test procedure / method name	Test procedure / method identification[2]	Tested subject	Degrees of freedom[3]
1	Detection and identification of *Clavibacter sepedonicus* and *Ralstonia solanacearum* by light microscopy method	SOP-M-02, excluding sections 3.3, 3.4, 3.5 (Commission Implementing Regulation (EU) 2022/1193 and 2022/1194)	Plant material, irrigation and wastewater, bacterial cultures	A, D
2	Detection and identification of *Clavibacter sepedonicus* and *Ralstonia solanacearum* by real-time PCR method	SOP-M-02, excluding sections 3.2, 3.4, 3.5 (Commission Implementing Regulation (EU) 2022/1193 and 2022/1194)	Plant material, irrigation and wastewater, bacterial cultures	A, D
3	Detection and identification of *Clavibacter sepedonicus* and *Ralstonia solanacearum* by cultivation method	SOP-M-02, excluding sections 3.2, 3.3, 3.4 (Commission Implementing Regulation (EU) 2022/1193 and 2022/1194)	Plant material, irrigation and wastewater, bacterial cultures	A, D
4	Detection and identification of *Clavibacter sepedonicus* and *Ralstonia solanacearum* by biological test	SOP-M-02, excluding sections 3.2, 3.3, 3.5 (Commission Implementing Regulation (EU) 2022/1193 and 2022/1194)	Plant material, irrigation and wastewater, bacterial cultures	A, D
5	Detection and identification of selected species of the genus *Tilletia* by light microscopy method	SOP-M-44	Plant material, seed	-

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Hroznová 63/2, Pisárky, 603 00 Brno

Ordinal number[1]	Test procedure / method name	Test procedure / method identification[2]	Tested subject	Degrees of freedom[3]
6	Qualitative detection of PLRV, PVY, PVA, PVM, PVX and PVS viruses by real-time PCR method	SOP-M-49	Plant material	A
7	Detection of plant viruses by DAS-ELISA method	SOP-M-51	Plant material, seed	A
8	Detection and identification of permanent zoosporangia of *Synchytrium endobioticum*, the causal agent of potato wart disease, by light microscopy method	SOP-M-69, excluding section 7.1.4	Soil, substrates, plant material	-
9	Detection and identification of permanent zoosporangia of *Synchytrium endobioticum*, the causal agent of potato wart disease by bioassay	SOP-M-69, excluding section 7.1.3	Soil, substrates, plant material	-
10	Detection and identification of phytophagous, mycophagous and free-living nematodes by light microscopy method	SOP-M-81	Plant material, wood, seed, substrates, soil, insects, sludge, nematodes	A
11	Detection of cysts and identification of golden potato cyst nematode *(Globodera rostochiensis)* and white potato cyst nematode *(Globodera pallida)* by light microscopy method	SOP-M-82	Substrates, soil, rinse water, sludge, nematodes	A

[1] asterisk at the ordinal number identifies the tests, which the laboratory is qualified to carry out outside the permanent laboratory premises; the numerical index at the test ordinal number identifies the location carrying out the test (the identification of the locations is given on the first page of this document)

[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)

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[3] degree 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.

Specification of the scope of accreditation:

Ordinal test number	Detailed information on activities within the scope of accreditation (determined analytes)
5	List of identified species of the genus *Tilletia: Tilletia controversa*, *Tilletia tritici*, *Tilletia indica*, *Tilletia foetida.*
7	List of organisms tested: ELISA kits for the diagnostics of plant viruses from manufacturers: Agdia, Bioreba, Creative Diagnostics, DSMZ, Loewe, Neogen, Sediag, Prime Diagnostics.

Specification of the scope of accreditation:

Ordinal test number	Detailed information on activities within the scope of accreditation (source literature)
1, 2, 3, 4	Commission Implementing Regulation (EU) 2022/1194 of 11 July 2022 establishing measures to eradicate and prevent the spread of *Clavibacter sepedonicus* (Spieckermann & Kotthoff 1914) Nouioui et al. 2018 and Commission Implementing Regulation (EU) 2022/1193 of 11 July 2022 establishing measures to eradicate and prevent the spread of *Ralstonia solanacearum* (Smith 1896) Yabuuchi et al. 1996 emend. Safni et al. 2014 Relevant EPPO diagnostic standards: Relevant EPPO diagnostic standards: https://www.eppo.int/RESOURCES/eppo_standards/pm7_diagnostics
5	Kochanová, M., Prokinová, E., Metody diagnostiky *Tilletia* spp. v teorii a praxi, 2004, ČFS. 68p. Relevant EPPO diagnostic standards: https://www.eppo.int/RESOURCES/eppo_standards/pm7_diagnostics
6	Agindotan BO, Shiel PJ, Berger PH. Simultaneous detection of potato viruses, PLRV, PVA, PVX and PVY from dormant potato tubers by TaqMan real-time RT-PCR. J Virol Methods. 2007 Jun;142(1-2):1-9. doi: 10.1016/j.jviromet.2006.12.012. Epub 2007 Feb 5. PMID: 17276522. Mortimer-Jones SM, Jones MG, Jones RA, Thomson G, Dwyer GI. A single tube, quantitative real-time RT-PCR assay that detects four potato viruses simultaneously. J Virol Methods. 2009 Nov;161(2):289-96. doi: 10.1016/j.jviromet.2009.06.027. Epub 2009 Jul 9. PMID: 19596379. Relevant EPPO diagnostic standards: https://www.eppo.int/RESOURCES/eppo_standards/pm7_diagnostics
7	PM 7/125 ELISA tests for viruses. Relevant EPPO diagnostic standards: https://www.eppo.int/RESOURCES/eppo_standards/pm7_diagnostics
8, 9	Karling J.S. (1964): *Synchytrium*. Academic press, 470p., EPPO PM 7/28 *Synchytrium endobioticum*. Commission Implementing Regulation (EU) 2022/1195 of 11 July 2022 establishing measures to eradicate and prevent the spread of *Synchytrium endobioticum* (Schilbersky) Percival.
10	Van Benzooien, J., Methods and techniques for nematology. Wageningen, 2006, 112 p. Relevant EPPO diagnostic standardshttps://www.eppo.int/RESOURCES/eppo_standards/pm7_diagnostics
11	Commission Implementing Regulation (EU) 2022/1192 of 11 July 2022 establishing measures to eradicate and prevent the spread of *Globodera pallida* (Stone) Behrens and *Globodera rostochiensis* (Wollenweber) Behrens.

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Ordinal test number	Detailed information on activities within the scope of accreditation (source literature)
	Van Benzooien, J., Methods and techniques for nematology. Wageningen, 2006, 112 pp., EPPO PM 7/40 *Globodera rostochiensis* and *G. pallida*.

11. **ÚKZÚZ, NRL, Division of Plant Pest Diagnostics, Laboratory of Plant Pest Diagnostics Opava**

Tests:

Ordinal number[1]	Test procedure / method name	Test procedure / method identification[2]	Tested subject	Degrees of freedom[3]
1	Detection and identification of selected species of the genus *Tilletia* by light microscopy method	SOP-M-44	Plant material, seed	-
2	Detection and identification of phytophagous, saprophagous and predatory insects and mites by light microscopy method	SOP-M-61	Plant material, insects, mites	A

[1] asterisk at the ordinal number identifies the tests, which the laboratory is qualified to carry out outside the permanent laboratory premises; the numerical index at the test ordinal number identifies the location carrying out the test (the identification of the locations is given on the first page of this document)

[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] degree 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.

Specification of the scope of accreditation:

Ordinal test number	Detailed information on activities within the scope of accreditation (determined analytes)
1	List of identified species of the genus *Tilletia: Tilletia controversa, Tilletia tritici, Tilletia indica, Tilletia foetida.*

Specification of the scope of accreditation:

The Appendix is an integral part of
Certificate of Accreditation No: 175/2025 of 10/04/2025

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

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CAB number 1071, Národní referenční laboratoř
Hroznová 63/2, Pisárky, 603 00 Brno

Ordinal test number	Detailed information on activities within the scope of accreditation (source literature)
1	Kochanová, M., Prokinová, E., Metody diagnostiky *Tilletia* spp. v teorii a praxi, 2004, ČFS. 68p. Relevant EPPO diagnostic standards: https://www.eppo.int/RESOURCES/eppo_standards/pm7_diagnostics
2	HEIE O. E. 1980, 19802, 1986, 1992, 1994, 1995: *The Aphidoidea (Hemiptera) of Fennoscandia and Denmark, Part I., II., III., IV., V., VI.* E. J. Brill, 236, 176, 313, 189, 242, 222 p. MACEK J. a kol. 2007: *Motýli a housenky střední Evropy. Noční motýli I.* Academia, 371 p. MACEK J. a kol. 2008: *Motýli a housenky střední Evropy. Noční motýli II. – můrovití.* Academia, 490 p. YEN A., BURCKHARDT D. 2017: Diagnostic Protocol for the detection of the Tomato Potato Psyllid, Bactericera cockerelli (Šulc). *SPHDS*, NDP 20: 1-34.

Explanatory notes:

CIPAC MT	Collaborative International Pesticides Analytical Council Miscellaneous Techniques
DAS-ELISA	Double Antibody Sandwich Enzyme Linked Immunosorbent Assay
EC	Emulsifiable concentrates
ELISA	Enzyme Linked Immuno Sorbent Assay
ETA-AAS	Electrothermal Atomization-Atomic Absorption Spectrometry
EW	Emulsion of type oil in water
FAAS	Flame Atomic Absorption Spectrometry
FAES	Flame Atomic Emission Spectrometry
FCH	Physico-chemical
FID	Flame Ionisation Detector
FLD	Fluorescence Detector
GC	Gas Chromatography
GC/FID	Gas Chromatography with FID detector
GC-MS	Gas Chromatography with Mass Spectrometric Detection
GC-MS/MS	Gas Chromatography with Tandem Mass Spectrometric Detection
GMO	Genetically Modified Organism
HG-AAS	Hydride Generation-Atomic Absorption Spectrometry
HPLC	High Performance Liquid Chromatography
HPLC/FLD	High Performance Liquid Chromatography with Fluorescence Detector
HPLC/UV	High Performance Liquid Chromatography with UV Detector
HPLC/DAD	High Performance Liquid Chromatography with Diode Array Detector
HS-GC/FID	Gas Chromatography with FID Detector and gas-phase sample injection (headspace)
CH	Chemical
ICP-MS	Inductively Coupled Plasma-Mass Spectroscopy
ICP-OES	Inductively Coupled Plasma-Optical Emission Spectroscopy
ISE	Ion Selective Electrode
ISTA	International Seed Testing Organisation
JPP ÚKZÚZ	Uniform Working Procedures ÚKZÚZ
LC	Liquid Chromatography
LC-MS	Liquid Chromatography with Mass Spectrometric Detection
LC-MS/MS	Liquid Chromatography with Tandem Mass Spectrometry
MALDI-TOF	Matrix Assisted Laser Desorption/Ionization Time Of Flight

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MS	Mass Spectrometry
NIRS	Near Infrared Spectroscopy
PCR	Polymerase Chain Reaction
PPP	Plant protection products
qPCR	Quantitative Polymerase Chain Reaction
SOP	Standard Operation Procedure
UPOV	The International Union for the Protection of New Varieties of Plants
UV	Ultraviolet Part of Spectrum

"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. "