

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

Ústřední kontrolní a zkušební ústav zemědělský
National Reference Laboratory
Hroznová 63/2, Brno, 603 00, Czech Republic

Workplaces of testing laboratory:

1. CISTA, NRL, Department of NRL Praha, Za Opravnou 4, 150 06 Praha 5 – Motol
2. CISTA, NRL, Division of NRL Brno, Hroznová 63/2, 603 00 Brno
3. CISTA, NRL, Division of NRL Opava, Jaselská 16, 746 23 Opava
4. CISTA, NRL, Department of NRL Plzeň, Slovanská alej 20, 326 00 Plzeň
5. CISTA, NRL, Department of Special Plant and Feed Analysis,
582 57 Lípa č. p. 121
6. CISTA, NRL, Department of Microbiology and Biochemistry Brno, Hroznová 63/2, 603 00 Brno
7. CISTA, NRL, Department of Testing Plant Protection Products, Zemědělská 1a,
613 00 Brno

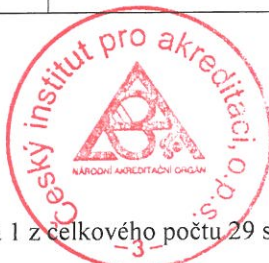
The laboratory applies a flexible scope of accreditation as detailed in the Annex.

Current list of test procedures performed within the flexible scope of accreditation is available at the laboratory on the ÚKZÚZ intranet and from the NRL Head.

1. CISTA, NRL, Department of NRL Praha

Tests:

Ordinal number ¹	Test procedure/method name	Test procedure/ method identification ²	Tested object
1	Determination of moisture by gravimetric method and calculation of dry matter ³	JPP ÚKZÚZ, procedure No. 10002.1	Animal feeding stuffs and raw materials for their production
2	Reserved		
3	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
4	Determination of fibre by gravimetric method	JPP ÚKZÚZ, procedure No. 10068.1	Animal feeding stuffs and raw materials for their production
5	Determination of ash and burnable substances by gravimetric method	JPP ÚKZÚZ, procedure No. 10004.1	Animal feeding stuffs and raw materials for their production
6	Reserved		
7	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



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Ordinal number ¹	Test procedure/method name	Test procedure/ method identification ²	Tested object
8	Determination of the content of nitrogenous substances and total nitrogen by titrimetric method ⁴	JPP ÚKZÚZ, procedure No. 10014.1	Animal feeding stuffs and raw materials for their production
9	Determination of chlorides by titrimetric method ⁵	JPP ÚKZÚZ, procedure No. 10131.1	Animal feeding stuffs and raw materials for their production
10	Reserved		
11	Determination of sugars by titrimetric method ⁶	JPP ÚKZÚZ, procedure No. 10084.1	Animal feeding stuffs and raw materials for their production
12	Determination of phosphorus by spectrophotometric method	JPP ÚKZÚZ, procedure No. 10128.1	Animal feeding stuffs and raw materials for their production
13	Reserved		
14	Determination of the elements by FAAS method (Cu, Fe, Mn, Zn)	JPP ÚKZÚZ, procedure No. 10325.1	Animal feeding stuffs and raw materials for their production
15-16	Reserved		
17	Determination of macroelements by FAAS and FAES method (Ca, K, Mg, Na)	JPP ÚKZÚZ, procedure No. 10135.1	Animal feeding stuffs and raw materials for their production
18-24	Reserved		
25	Determination of vitamin A by HPLC/UV method and vitamin E by HPLC/FLD method ⁷	JPP ÚKZÚZ, procedure No. 10380.1	Animal feeding stuffs and raw materials for their production
26	Determination of amprolium by HPLC/UV method	JPP ÚKZÚZ, procedure No. 10636.1	Animal feeding stuffs and raw materials for their production
27	Determination of robenidin by HPLC/UV method	JPP ÚKZÚZ, procedure No. 10394.1	Animal feeding stuffs and raw materials for their production
28	Determination of diclazuril by HPLC/UV method	JPP ÚKZÚZ, procedure No. 10393.1	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
29	Determination of momensin sodium, salinomycin sodium and narasin by HPLC/UV method	JPP ÚKZÚZ, procedure No. 10350.1	Animal feeding stuffs and raw materials for their production
30	Determination of lasalocid sodium by HPLC/FLD method	JPP ÚKZÚZ, procedure No. 10400.1	Animal feeding stuffs and raw materials for their production
31	Determination of dimetridazol by HPLC/UV method	JPP ÚKZÚZ, procedure No. 10391.1	Animal feeding stuffs and raw materials for their production
32	Determination of nicarbazin by HPLC/UV method	JPP ÚKZÚZ, procedure No. 10360.1	Animal feeding stuffs and raw materials for their production
33	Determination of coccidiostats by LC-MS/MS method ⁸	JPP ÚKZÚZ, procedure No. 10620.2	Animal feeding stuffs and raw materials for their production
34	Determination of unauthorised additives by LC-MS/MS method ⁹	JPP ÚKZÚZ, procedure No. 10630.2	Animal feeding stuffs and raw materials for their production
35	Determination of amino acids by ion exchange chromatography ¹⁰	JPP ÚKZÚZ, procedure No. 10021.1	Animal feeding stuffs and raw materials for their production
36	Determination of starch by polarimetric method	JPP ÚKZÚZ, procedure No. 10083.1	Animal feeding stuffs and raw materials for their production
37-54	Reserved		
55	Determination of urea by spectrophotometric method	JPP ÚKZÚZ, procedure No. 10012.1	Animal feeding stuffs and raw materials for their production
56	Determination of methionine hydroxy analog by HPLC/UV method	JPP ÚKZÚZ, procedure No. 10330.1	Animal feeding stuffs and raw materials for their production
57	Determination of nifursol by HPLC/UV method	JPP ÚKZÚZ, procedure No. 10635.1	Animal feeding stuffs and raw materials for their production
58	Determination of benzoic acid by HPLC/UV method	JPP ÚKZÚZ, procedure No. 10336.1	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
59	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
60	Determination of maduramicine by HPLC/UV method	JPP ÚKZÚZ, procedure No. 10341.1	Animal feeding stuffs and raw materials for their production
61	Determination of decoquinat by HPLC/FLD method	JPP ÚKZÚZ, procedure No. 10370.1	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

² if the documents identifying the test procedure is dated, only these specific procedures are used. If the document identifying the test procedure is not dated, the latest edition of the specified procedure is used (including any changes)

³ expressed as: moisture, dry matter, original moisture, original dry matter, analytical moisture, analytical dry matter

⁴ expressed as: nitrogenous substances (*factor*), nitrogenous substances (*factor*) in dry matter, total nitrogen (N), *factor* = conversion factor for nitrogenous substances

⁵ expressed as: chlorides as NaCl

⁶ 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

⁷ expressed as: Vitamin A – total retinol (all cis trans), Vitamin E – DL-alfa-tocopherol, Vitamin E – DL-alfa-tocopherolacetate

⁸ analytes: robenidin hydrochloride, monensin sodium, salinomycin sodium, narasin, lasalocid sodium, halofuginon hydrobromide, semduramicin sodium, maduramicin ammonium alfa, diclazuril, nicarbazin

⁹ analytes: Olaquinox, Carbadox, Zinc-bacitracin, Virginiamycin, Tylosin phosphate

¹⁰ analytes: lysine, asparagine acid, threonine, serine, glutamic acid, proline, glycine, alanine, cystine, valine, methionine, isoleucine, leucine, tyrosine, phenylalanine, histidine, arginine.

Annex:

Flexible scope of accreditation

Ordinal numbers of tests
1, 3 – 5, 7 – 9, 11, 12, 14, 17, 25 – 36, 55 – 61

The Laboratory is allowed to modify the test methods listed in the Annex withing the specified scope of accreditation provided the measuring principle is observed. The flexible approach to the scope of accreditation cannot be applied to the tests not included in the Annex.



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2. CISTA, NRL, Division of NRL Brno

Tests:

Ordinal number ¹	Test procedure/method name	Test procedure/ method identification ²	Tested object
1	Determination of soil pH by ISE method	JPP ÚKZÚZ, procedure No. 30040.1	Soil
2	Reserved		
3	Determination of the elements by ICP-OES method (P, K, Ca, Mg, Na, Cu, Zn, Ni, Co, Pb, Cd, Be, Cr, Al, Fe, Mn, As, S, Mo, V)	JPP ÚKZÚZ, procedure No. 30350.2, 30500.2	Soil and sludge
4	Determination of the elements by ICP-OES method (P, K, Ca, Mg, Na, S)	JPP ÚKZÚZ, procedure No. 40020.1, 40032.1, 40090.1	Vegetable material
5	Determination of the elements by ICP-OES method (P, K, Ca, Mg, Na, Cu, Zn, , Fe, Mn, S)	JPP ÚKZÚZ, procedure No. 10150.1, 10320.1, 10180.1	Animal feeding stuffs and raw materials for their production
6	Determination of the elements by ICP-OES method (Al, B, Ca, Cu, Fe, K, Mg, Mn, P, S, Zn)	JPP ÚKZÚZ, procedure No. 30068.1, 30074.1	Soil
7-8	Reserved		
9	Determination of the elements by spectrophotometric method (P)	JPP ÚKZÚZ, procedure No. 30068.1, 30072.1	Soil
10	Determination of moisture (dry matter) by gravimetric method ³	JPP ÚKZÚZ, procedure No. 10001.1	Animal feeding stuffs and raw materials for their production
11	Determination of moisture (dry matter) by gravimetric method ³	JPP ÚKZÚZ, procedure No. 40010.1	Vegetable material
12	Determination of moisture (dry matter) by gravimetric method ³	JPP ÚKZÚZ, procedure No. 30020.1	Soil and similar materials
13	Determination of moisture (dry matter) by gravimetric method ³	JPP ÚKZÚZ, procedure No. 50010.1	Vegetable material



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Ordinal number ¹	Test procedure/method name	Test procedure/ method identification ²	Tested object
14	Determination of mercury using AMA instrument	JPP ÚKZÚZ, procedure No. 10420.1	Animal feeding stuffs and raw materials for their production
15	Determination of mercury using AMA instrument	JPP ÚKZÚZ, procedure No. 30460.1	Soil and similar materials
16	Determination of mercury using AMA instrument	JPP ÚKZÚZ, procedure No. 40190.1	Vegetable material
17	Determination of nitrogen (nitrogenous substances) by titrimetric method	JPP ÚKZÚZ, procedure No. 10014.1	Animal feeding stuffs and raw materials for their production, Vegetable material
18	Determination of nitrogen (nitrogenous substances) by titrimetric method	JPP ÚKZÚZ, procedure No. 40020.1, 40053.1	Vegetable material
19	Determination of nitrogen (nitrogenous substances) by titrimetric method	JPP ÚKZÚZ, procedure No. 50015.1	Vegetable and variety material
20	Reserved		
21	Determination of fat (oil) by gravimetric method	JPP ÚKZÚZ, procedure No. 10058.1	Animal feeding stuffs and raw materials for their production
22	Determination of fat (oil) by gravimetric method	JPP ÚKZÚZ, procedure No. 50078.1	Vegetable material
23	Determination of iodine number by titrimetric method	JPP ÚKZÚZ, procedure No. 50080.1	Vegetable material
24	Determination of fibre by gravimetric method	JPP ÚKZÚZ, procedure No. 10068.1	Animal feeding stuffs and raw materials for their production
25	Determination of acid detergent and neutral detergent fibre (ADF, NDF) and acid detergent lignin (ADL) by gravimetric method	JPP ÚKZÚZ, procedure No. 10070.1, 10080.1	Animal feeding stuffs and raw materials for their production
26	Determination of starch by polarimetric method	JPP ÚKZÚZ, procedure No. 10083.1	Animal feeding stuffs and raw materials for their production
27	Determination of starch by polarimetric method	JPP ÚKZÚZ, procedure No. 50030.1	Vegetable material



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Ordinal number ¹	Test procedure/method name	Test procedure/ method identification ²	Tested object
28	Determination of sugars by titrimetric method	JPP ÚKZÚZ, procedure No. 10084.1	Animal feeding stuffs and raw materials for their production
29	Determination of ash (loss caused by burning) by gravimetric method	JPP ÚKZÚZ, procedure No. 10004.1	Animal feeding stuffs and raw materials for their production
30	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
31	Determination of water-soluble chlorides as NaCl- by titrimetric method	JPP ÚKZÚZ, procedure No. 10131.1	Animal feeding stuffs and raw materials for their production
32	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
33	Determination of the Falling number	JPP ÚKZÚZ, procedure No. 50140.1	Cereals
34	Sedimentation index – Zeleny test	JPP ÚKZÚZ, procedure No. 50150.1	Cereals
35	Determination of water absorption using farinograph	JPP ÚKZÚZ, procedure No. 50160.1	Cereals
36	Determination of fatty acids by GC/FID method ⁴	JPP ÚKZÚZ, procedure No. 50100.1	Vegetable material
37	Determination of glucosinolates by HPLC/DAD method	JPP ÚKZÚZ, procedure No. 50110.1	Vegetable material
38	Determination of parameters by NIRS method (fat, oil, dry matter, nitrogenous substances)	JPP ÚKZÚZ, procedure No. 50050.1	Cereals, legumes,
39	Determination of parameters by NIRS method (dry matter, nitrogenous substances, digestible nitrogenous substances, fibre, acid detergent fibre and neutral detergent fibre, starch, sugar, cellulose)	JPP ÚKZÚZ, procedure No. 50050.1	Silage maize



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Ordinal number ¹	Test procedure/method name	Test procedure/ method identification ²	Tested object
40	Determination of parameters by NIRS method (dry matter, nitrogenous substances, starch, ash)	JPP ÚKZÚZ, procedure No. 50050.1	Cereals, flour
41	Determination of parameters by NIRS method (oxidizable carbon- C _{OX} , total nitrogen- N _{TOT} , total organic carbon- TOC)	JPP ÚKZÚZ, procedure No. 30980.3	Soil
42	Determination of polychlorinated biphenyls indicator congeners (PCB) and persistent organic chlorinated pesticides (OCP) by GC-MS/MS method ⁵	JPP ÚKZÚZ, procedure No. 30680.1, 30690.1	Soil, sludge, sediments
43	Determination of polychlorinated biphenyls indicator congeners (PCB) and persistent organic chlorinated pesticides (OCP) by GC-MS/MS method ⁶	JPP ÚKZÚZ, procedure No. 10580.1, 10590.1	Animal feeding stuffs and raw materials for their production
44	Determination of cannabinoids by GC/FID method	JPP ÚKZÚZ, procedure No. 40280.1	Vegetable material
45	Determination of feed additives by HPLC/DAD, FLD method (salinomycin, monensin, narasin, robenidin, nicarbazin, lasalocid)	JPP ÚKZÚZ, procedure No. 10350.1, 10360.1, 10390.1, 10400.1	Animal feeding stuffs and raw materials for their production
46	Multiresidual method for determination of pesticides by GC-MS/MS method ⁷	JPP ÚKZÚZ, procedure No. 10610.1	Animal feeding stuffs and raw materials for their production, Vegetable material
47	Multiresidual method for determination of pesticides by LC-MS/MS method ⁸	JPP ÚKZÚZ, procedure No. 10600.1	Animal feeding stuffs and raw materials for their production, Vegetable material
48	Multiresidual method for determination of pesticides by LC-MS/MS method ⁹	JPP ÚKZÚZ, procedure No. 10600.1	Soil



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Ordinal number ¹	Test procedure/method name	Test procedure/ method identification ²	Tested object
49	Determination of the elements by ICP-MS method (Pb, As, Mo, Ni, Cu, Mn, Co, B, Be, Al, Cd, Zn, V, Cr, Fe)	JPP ÚKZÚZ, procedure No. 40032.1, 40224.1	Vegetable material
50	Determination of the elements by ICP-MS method (Cd, Pb, Cr, As, Se, I, Co, Ni)	JPP ÚKZÚZ, procedure No. 10290.1, 10300.1, 10410.1, 10412.1, 10440.1, 10470.1, 10472.1	Animal feeding stuffs and raw materials for their production
51	Determination of methanol in glycerol by HS-GC/FID method	JPP ÚKZÚZ, procedure No. 10520.1	Glycerol
52	Determination of polybrominated diphenyl ethers by GC-MS/MS method (PBDE 28, 47, 66, 85, 99, 100, 153, 154, 183)	JPP ÚKZÚZ, procedure No. 30691.1	Soil, sludge, sediments
53	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
54	Determination of glycerol by titrimetric method	JPP ÚKZÚZ, procedure No. 10200.1	Raw glycerol
55	Determination of water in glycerol by titrimetric method	JPP ÚKZÚZ, procedure No. 10220.1	Raw glycerol
56	Determination of vitamin D by LC-MS method	JPP ÚKZÚZ, procedure No. 10271.1	Animal feeding stuffs and raw materials for their production
57	Determination of polar residues of pesticides by LC-MS/MS method (chlormequat, mepiquat, glyphosate, N-acetyl-glyphosate, glufosinate, aminomethylphosphonic acid (AMPA), N-acetyl-glufosinate (NAG), Fosetyl-Al, Ethephon, 3-methylphosphinicopropionic acid (MPP))	JPP ÚKZÚZ, procedure No. 10605.4, 10606.1	Animal feeding stuffs and raw materials for their production, Plant material



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Ordinal number ¹	Test procedure/method name	Test procedure/ method identification ²	Tested object
58	Multiresidual method for determination of mycotoxins by LC-MS/MS method (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)	JPP ÚKZÚZ, procedure No. 10575.1	Animal feeding stuffs and raw materials for their production, Plant material
59	Determination of natural toxins by LC-MS/MS method ¹⁰	JPP ÚKZÚZ, procedure No. 10576.1	Animal feeding stuffs and raw materials for their production
60	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, Vegetable material
61	Determination of selected opium alkaloids by HPLC method with DAD detection (morphine)	JPP ÚKZÚZ, procedure No. 50250.1	Poppy capsules
62	Determination of fluorides by ISE method	JPP ÚKZÚZ, procedure No. 10500.1	Animal feeding stuffs and raw materials for their production
63	Determination of urea by spectrophotometric method	JPP ÚKZÚZ, procedure No. 10012.1	Animal feeding stuffs and raw materials for their production
64	Determination of hydrocarbons C ₁₀ – C ₄₀ content by GC/FID method	JPP ÚKZÚZ, procedure No. 30720.1	Soil, sediments

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³ expressed as: moisture, dry matter, original moisture, original dry matter, analytical moisture, analytical dry matter

⁴ analytes: arachic acid, behenic acid, eicosanoic acid, erucic acid, lauric acid, lignoceric acid, linolenic acid, linolic acid, myristic acid, oleic acid, palmitic acid, stearic acid

⁵ analytes: PCB28, PCB52, PCB101, PCB118, PCB138, PCB153, PCB180, HCB, alpha-HCH, beta-HCH, gama-HCH, delta-HCH, o,p'-DDT, o,p'-DDD, o,p'-DDE, p,p'-DDT, p,p'-DDD, p,p'-DDE

⁶ analytes: PCB28, PCB52, PCB101, PCB118, PCB138, PCB153, PCB180, HCB, alpha-HCH, beta-HCH, gama-HCH, delta-HCH, o,p'-DDT, o,p'-DDD, o,p'-DDE, p,p'-DDT, p,p'-DDD, p,p'-DDE, aldrin, dieldrin,



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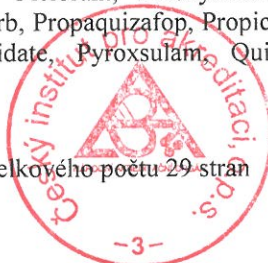
Ústřední kontrolní a zkušební ústav zemědělský
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endrin, endrin-ke-ton, isodrin, heptachlor, alpha-heptachlorepo-xide, beta-heptachlorepo-xid, alpha-endosulfan, beta-endosulfan, endosulfan sulphate, alpha-chlordan, gama-chlordan, oxy-chlordan, metoxy-chlor, mirex, kongeners of toxafen Parlar-26, Parlar-32, Parlar-50 and Parlar-62

⁷ analytes: Azinphos-ethyl, Azinphos-methyl, Azoxystrobin, Bifenthrin, Bixafen, Boscalid, Captan, Carbaryl, Cyhalothrin-lambda, Cypermethrin, Cyproconazole, Cyprodinil, Deltamethrin, Diazinon, Dicloran, Dicofol, Difenconazole, Dichlorvos, Dimethoate, Dimethomorph, Diphenylamine, Endosulfan, Endosulfan sulfate, Epoxiconazole, Ethion, Ethofenprox, Fenbuconazole, Fenhexamid, Fenitrothion, Fenpropidin, Fenpropimorph, Fenthion, Fenvalerate, Fipronil, Flonicamid, Fludioxonil, Fluquinconazole, Flusilazole, Flutriafol, Folpet, Hexaconazole, Chlorfenvinphos, Chlorothalonil, Chlorpropham, Chlorpyrifos, Chlorpyrifos-methyl, Indoxacarb, Iprodione, Iprovalicarb, Isoproturon, Kresoxim-methyl, Lindane, Malaaxon, Malathion, Metalaxyl, Metconazole, Methacrifos, Methidathion, Metribuzin, Monocrotophos, Myclobutanil, Nitrofen, Omethoate, Parathion, Penconazole, Pendimethalin, Permethrin, Phenthoate, Phosalone, Phosmet, Picoxystrobin, Pirimicarb, Pirimiphos-methyl, Procymidon, Profenofos, Propiconazole, Pyrimethanil, Quinoxifen, Resmethrin, Spiroxamine, Tetraconazole, Triadimefon, Triadimenol, Triazophos, Trifloxystrobin, Trifluralin, Triticonazole, Vinclozolin

⁸ analytes: 2,4-D, Acephate, Acetamiprid, Acetochlor, Aminopyralid, Azinphos-methyl, Azoxystrobin, Benalaxyl, Bentazone, Bifenox, Bitertanol, Boscalid, Bromoxynil, Carbaryl, Carbendazim, Carbofuran, Carbofuran-3-hydroxy, Carboxin, Clomazone, Clopyralid, Clothianidin, Cyazofamid, Cymoxanil, Cyproconazole, Cyprodinil, Demeton-S-methylsulfone, Diazinon, Dicamba, Difenconazole, Diflubenzuron, Diflufenican, Dichlormid, Dichlorprop, Dichlorvos, Dimethachlor, Dimethoate, Dimethomorph, Dimoxystrobin, Dinocap, Epoxiconazole, Famoxadone, Fenamidone, Fenbuconazole, Fenhexamid, Fenpropidin, Fenpropimorph, Fenthion, Florasulam, Fluazifop, Flumioxazin, Fluopicolide, Fluoxastrobin, Fluquinconazole, Fluroxypyr, Flusilazole, Flutriafol, Fluvalinate-tau, Fluxapyroxad, Foramsulfuron, Haloxyfop, Haloxyfop-etotyl, Haloxyfop-methyl, Hexaconazole, Chlorotoluron, Chlorpyrifos, Chlorsulfuron, Imazalil, Imidacloprid, Indoxacarb, Iodosulfuron-methyl, Iprovalicarb, Isoproturon, Isoxadifen-ethyl, Kresoxim-methyl, Linuron, Malaaxon, Malathion, Mandipropamid, MCPA, Mecoprop, Mefenpyr-diethyl, Mesotrione, Metalaxyl, Metamitron, Metazachlor, Metconazole, Methiocarb, Methiocarb sulfone, Methomyl, Methoxyfenozide, Metolachlor, Metrafenone, Metsulfuron-methyl, Monocrotophos, Myclobutanil, Nicosulfuron, Omethoate, Paclobutrazol, Penconazole, Pencycuron, Pendimethalin, Pethoxamid, Phenmedipham, Phosalone, Phosmet, Phosphamidon, Picloram, Pirimicarb, Pirimicarb-desmethyl, Pirimiphos-methyl, Prochloraz, Propamocarb, Propaquizafop, Propiconazole, Proquinazid, Prosulfocarb, Prothioconazole-desthio, Pymetrozine, Pyraclostrobin, Pyridaben, Pyrimethanil, Quinclorac, Quinmerac, Quinoxifen, Quizalofop-P-ethyl, Oxydemeton-methyl, Rimsulfuron, Spinosyn A, Spinosyn D, Spiroxamine, Tebuconazole, Tebufenozide, Terbutylazine, Tetraconazole, Thiabendazole, Thiacloprid, Thiamethoxam, Thiodicarb, Thiophanate-methyl, Thiram, Triadimefon, Triadimenol, Triasulfuron, Triazophos, Tribenuron-methyl, Trifloxystrobin, Triticonazole, Zoxamide

⁹ analytes: 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, Chlorantraniliprole, Chloridazon, Chlorotoluron, Chlorpropham, Chlorpyrifos, Chlorsulfuron, Clomazone, Clopyralid, Cyflufenamid, Cymoxanil, Cyproconazole, Desmedipham, Dicamba, Dichlorprop, Difenconazole, 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, 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, Quinoxifen,



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

Ústřední kontrolní a zkušební ústav zemědělský
National Reference Laboratory
Hroznová 63/2, Brno, 603 00, Czech Republic

Quizalofop, Quizalofop-P-ethyl, Rimsulfuron, Simazine, Spiroxamine, Sulfosulfuron, Tebuconazole, Tebufenpyrad, Terbutylazine, Terbutylazine-2-hydroxy, Terbutylazine-desethyl, Terbutryn, Tetraconazole, Thiacloprid, Thiencarbazone-methyl, Thifensulfuron-methyl, Thiophanate-methyl, Triadimenol, Triasulfuron, Triclopyr, Trifloxystrobin, Trinexapac-ethyl, Tritosulfuron

¹⁰ analytes: ergocornine, ergocorninine, ergosine, ergosinine, ergocrystine, ergocrystinine, ergocryptine, ergocryptinine, ergotamine, ergotaminine, ergometrine, ergometrinine, retrosine, monokrotaline, senecionine, senecifiline, senkirkine

Annex:

Flexible scope of accreditation

Ordinal numbers of tests
1, 3 – 6, 9 – 19, 21 – 64

The Laboratory is allowed to modify the test methods listed in the Annex withing the specified scope of accreditation provided the measuring principle is observed. The flexible approach to the scope of accreditation cannot be applied to the tests not included in the Annex.

3. CISTA, NRL, Division of NRL Opava

Tests:

Ordinal number ¹	Test procedure/method name	Test procedure/ method identification ²	Tested object
1	Determination of moisture (dry matter) by gravimetric method ³	JPP ÚKZÚZ, procedure No. 10002.1	Animal feeding stuffs and raw materials for their production
2	Determination of moisture (dry matter) by gravimetric method ³	JPP ÚKZÚZ, procedure No. 40010.1	Vegetable material
3	Determination of moisture (dry matter) by gravimetric method ³	JPP ÚKZÚZ, procedure No. 30020.1	Soil and similar materials
4	Determination of ash by gravimetric method	JPP ÚKZÚZ, procedure No. 10004.1	Animal feeding stuffs and raw materials for their production
5	Determination of organic substances (loss caused by burning, burnable substances) by gravimetric method	JPP ÚKZÚZ, procedure No. 30900.1	Soil and similar materials
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



**This Appendix is an integral part of
Certificate of Accreditation No. 548/2022 of 14/11/2022**

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

Ústřední kontrolní a zkušební ústav zemědělský
National Reference Laboratory
Hroznová 63/2, Brno, 603 00, Czech Republic

Ordinal number ¹	Test procedure/method name	Test procedure/ method identification ²	Tested object
8	Determination of fibre by gravimetric method	JPP ÚKZÚZ, procedure No. 10068.1	Animal feeding stuffs and raw materials for their production
9	Reserved		
10	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
11	Determination of water-soluble chlorides as NaCl by titrimetric method	JPP ÚKZÚZ, procedure No. 10131.1	Animal feeding stuffs and raw materials for their production
12	Determination of starch by polarimetric method	JPP ÚKZÚZ, procedure No. 10083.1	Animal feeding stuffs and raw materials for their production
13	Determination of sugars by titrimetric method	JPP ÚKZÚZ, procedure No. 10084.1	Animal feeding stuffs and raw materials for their production
14	Determination of nitrogen (nitrogenous substances) by titrimetric method	JPP ÚKZÚZ, procedure No. 10014.1	Animal feeding stuffs and raw materials for their production
15	Determination of nitrogen by titrimetric method	JPP ÚKZÚZ, procedure No. 40018.1, 40053.1	Vegetable material
16	Reserved		
17	Determination of robenidine by HPLC method with UV detection	JPP ÚKZÚZ, procedure No. 10390.1	Animal feeding stuffs and raw materials for their production
18	Determination of vitamin A, E by HPLC method with UV detection	JPP ÚKZÚZ, procedure No. 10380.1	Animal feeding stuffs and raw materials for their production
19	Determination of phosphorus by spectrophotometric method	JPP ÚKZÚZ, procedure No. 30068.1, 30072.1	Soil and similar materials
20	Determination of phosphorus by spectrophotometric method	JPP ÚKZÚZ, procedure No. 40018.1, 40060.1	Vegetable material
21	Determination of salinomycin, monensin and narasin by HPLC method with UV detection	JPP ÚKZÚZ, procedure No. 10350.1	Animal feeding stuffs and raw materials for their production
22	Determination of polycyclic aromatic hydrocarbons by HPLC method with UV and FL detection ⁴	JPP ÚKZÚZ, procedure No. 40260.1	Vegetable material



**This Appendix is an integral part of
Certificate of Accreditation No. 548/2022 of 14/11/2022**

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

Ústřední kontrolní a zkušební ústav zemědělský
National Reference Laboratory
Hroznová 63/2, Brno, 603 00, Czech Republic

Ordinal number ¹	Test procedure/method name	Test procedure/ method identification ²	Tested object
23	Determination of polycyclic aromatic hydrocarbons by HPLC method with UV and FL detection ⁴	JPP ÚKZÚZ, procedure No. 30660.1	Soil and similar materials
24	Reserved		
25	Determination of the elements by FAES method (Na, K)	JPP ÚKZÚZ, procedure No. 40018.1, 40080.1	Vegetable material
26	Determination of the elements by FAAS method (Pb, Cd)	JPP ÚKZÚZ, procedure No. 10450.1	Animal feeding stuffs and raw materials for their production
27	Reserved		
28	Determination of the elements by FAAS method (Ca, Mg, Pb, Cd)	JPP ÚKZÚZ, procedure No. 40018.1, 40034.1, 40070.1, 40110.1	Vegetable material
29	Determination of soil granularity by pipetting method and gravimetric method ⁵	JPP ÚKZÚZ, procedure No. 30250.1	Soil and similar materials
30	Determination of soil pH - ISE	JPP ÚKZÚZ, procedure No. 30040.1, 30041.1, 30042.1	Soil and similar materials
31	Determination of the elements by ICP-OES method (Zn, Co, Ni, Cr, Cu, Mn, Fe, Ca, K, Mg, Na, P, As, Se)	JPP ÚKZÚZ, procedure No. 10150.1, 10320.1, 10480.1, 10282.1	Animal feeding stuffs and raw materials for their production
32	Determination of the elements by ICP-OES method (Al, Ca, Cd, K, Mg, P, S, Cu, Mn, Zn, Fe, B)	JPP ÚKZÚZ, procedure No. 30068.1, 30074.1	Soil and similar materials
33	Determination of the elements by ICP-OES method (Zn, Co, Ni, Cr, V, Be, Cu, Mn, Mo, Fe, Al, Ca, K, Mg, Na, P, S, As, Pb, Cd)	JPP ÚKZÚZ, procedure No. 30350.2, 30360.1, 30500.2	Soil and similar materials
34	Determination of the elements by ICP-OES method (Al, As, B, Be, Ca, Cd, Co, Cr, Cu, Fe, K, Mg, Mn, Mo, Na, Ni, P, Pb, S, V, Zn)	JPP ÚKZÚZ, procedure No. 40018.1, 40030.1, 40032.1, 40034.1, 40090.1, 40100.1	Vegetable material
35	Determination of mercury using AMA instrument	JPP ÚKZÚZ, procedure No. 10420.1	Animal feeding stuffs and raw materials for their production

**This Appendix is an integral part of
Certificate of Accreditation No. 548/2022 of 14/11/2022**

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

Ústřední kontrolní a zkušební ústav zemědělský
National Reference Laboratory
Hroznová 63/2, Brno, 603 00, Czech Republic

Ordinal number ¹	Test procedure/method name	Test procedure/ method identification ²	Tested object
36	Determination of mercury using AMA instrument	JPP ÚKZÚZ, procedure No. 30460.1	Soil and similar materials
37	Determination of mercury using AMA instrument	JPP ÚKZÚZ, procedure No. 40190.1	Vegetable material
38	Determination of parameters by NIRS method (fat (oil))	JPP ÚKZÚZ, procedure No. 50050.1	Vegetable material
39	Determination of parameters by NIRS method (dry matter, nitrogenous substances, digestible nitrogenous substances, fibre, acidodetergent fibre (ADF), neutral detergent fibre (NDF), starch, sugar, cellulose)	JPP ÚKZÚZ, procedure No. 50050.1	Vegetable material
40	Determination of theobromin and caffeine by HPLC method with UV detection	JPP ÚKZÚZ, procedure No. 10542.2	Animal feeding stuffs and raw materials for their production
41	Determination of actual cationt exchange capacity (CEC) by finish counting from exchange cationts (Ca, Mg, K, Na, Al, Fe, Mn by ICP OES method) and from exchange acidity (Al +H by titrimetric method) and finish counting of the stage of basis saturation (BS)	JPP ÚKZÚZ, procedure No. 30230.1, 30234.1, 30235.1, 30236.1	Soil and similar materials

¹ asterisk at the ordinal number identifies the tests, which the Laboratory is qualified to carry out outside the permanent laboratory premises

² if the documents identifying the test procedure is dated, only these specific procedures are used. If the document identifying the test procedure is not dated, the latest edition of the specified procedure is used (including any changes)

³ expressed as: moisture, dry matter, original moisture, original dry matter, analytical moisture, analytical dry matter, H₂O,

⁴ analytes: naphtalene, acenaphtylene, acenaphtene, 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

⁵ designated 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



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

Ústřední kontrolní a zkušební ústav zemědělský
National Reference Laboratory
Hroznová 63/2, Brno, 603 00, Czech Republic

Annex:

Flexible scope of accreditation

Ordinal numbers of tests
<i>1 – 8, 10 – 15, 17 – 23, 25, 26, 28 – 41</i>

The Laboratory is allowed to modify the test methods listed in the Annex withing the specified scope of accreditation provided the measuring principle is observed. The flexible approach to the scope of accreditation cannot be applied to the tests not included in the Annex.

4. CISTA, NRL, Department of NRL Plzeň

Tests:

Ordinal number ¹	Test procedure/method name	Test procedure/ method identification ²	Tested object
1	Determination of moisture (dry matter) by gravimetric method ³	JPP ÚKZÚZ, procedure No. 30020.1	Soil and similar materials
2	Determination of moisture by gravimetric method and calculation of dry matter ³	JPP ÚKZÚZ, procedure No. 20001.1	Fertilizers and raw materials for their production
3	Determination of moisture (dry matter) by gravimetric method ³	JPP ÚKZÚZ, procedure No. 40010.1	Vegetable material
4	Determination of nitrogen (nitrogenous substances) by titrimetric method	JPP ÚKZÚZ, procedure No. 40020.1, 40053.1	Vegetable material
5	Determination of the elements by spectrophotometric method (P)	JPP ÚKZÚZ, procedure No. 30068.1, 30072.1	Soil and similar materials
6	Determination of the elements by spectrophotometric method (P)	JPP ÚKZÚZ, procedure No. 40020.1, 40060.1	Vegetable material
7	Determination of the elements by FAES method (Na)	JPP ÚKZÚZ, procedure No. 40034.1, 40080.1	Vegetable material
8	Determination of the elements by FAES method (K)	JPP ÚKZÚZ, procedure No. 40020.1, 40080.1	Vegetable material
9	Reserved		
10	Determination of the elements by FAAS method (Ca, Mg)	JPP ÚKZÚZ, procedure No. 40020.1, 40070.1	Vegetable material
11	Determination of the elements by FAAS method (Cd, Pb)	JPP ÚKZÚZ, procedure No. 40034.1, 40110.1	Vegetable material

**This Appendix is an integral part of
Certificate of Accreditation No. 548/2022 of 14/11/2022**

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

Ústřední kontrolní a zkušební ústav zemědělský
National Reference Laboratory
Hroznová 63/2, Brno, 603 00, Czech Republic

Ordinal number ¹	Test procedure/method name	Test procedure/ method identification ²	Tested object
12	Reserved		
13	Determination of pH value by electrochemical method	JPP ÚKZÚZ, procedure No., 20221.1, 20376.1	Fertilizers and raw materials for their production
14	Determination of pH value by electrochemical method	JPP ÚKZÚZ, procedure No. 30040.1	Soil and similar materials
15	Determination of the elements by ICP-OES method (As, Be, Cd, Co, Cr, Cu, Mo, Ni, Pb, V, Zn)	JPP ÚKZÚZ, procedure No. 30350.2, 30500.2	Soil and similar materials
16	Determination of the elements by ICP-OES method (Al, As, B, Be, Ca, Cd, Co, Cr, Cu, Fe, K, Mg, Mn, Mo, Na, Ni, P, Pb, S, V, Zn) ^{4,5,6,7}	JPP ÚKZÚZ, procedure No. 20061.1, 20062.1, 20070.3	Fertilizers and raw materials for their production
17	Determination of the elements by ICP-OES method (S)	JPP ÚKZÚZ, procedure No. 40030.1, 40100.1	Vegetable material
18	Determination of the elements by ICP-OES method (Al, As, B, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, K, Mg, Mo, Mn, Na, Ni, P, Pb, V, Zn)	JPP ÚKZÚZ, procedure No. 40034.1, 40090.1, 40100.1	Vegetable material
19	Determination of the elements by ICP-OES method (Al, B, Ca, Cu, Fe, K, Mg, Mn, P, S, Zn)	JPP ÚKZÚZ, procedure No. 30068.1, 30074.1	Soil and similar materials
20	Determination of mercury using AMA instrument	JPP ÚKZÚZ, procedure No. 20110.1	Fertilizers and raw materials for their production
21	Determination of mercury using AMA instrument	JPP ÚKZÚZ, procedure No. 40190.1	Vegetable material
22	Determination of mercury using AMA instrument	JPP ÚKZÚZ, procedure No. 30460.1	Soil and similar materials
23	Determination of ammonium nitrogen by titrimetric method ⁸	JPP ÚKZÚZ, procedure No. 20130.1	Fertilizers and raw materials for their production
24	Determination of amidic nitrogen by spectrophotometric method ⁸	JPP ÚKZÚZ, procedure No. 20150.1	Fertilizers and raw materials for their production



**This Appendix is an integral part of
Certificate of Accreditation No. 548/2022 of 14/11/2022**

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

Ústřední kontrolní a zkušební ústav zemědělský
National Reference Laboratory
Hroznová 63/2, Brno, 603 00, Czech Republic

Ordinal number ¹	Test procedure/method name	Test procedure/ method identification ²	Tested object
25	Determination of nitrate and ammonium nitrogen pursuant to Devard by titrimetric method ⁸	JPP ÚKZÚZ, procedure No. 20131.1	Fertilizers and raw materials for their production
26	Determination of total nitrogen in urea by titrimetric method	JPP ÚKZÚZ, procedure No. 20134.1	Fertilizers and raw materials for their production
27	Determination of total nitrogen pursuant to Jodlbauer by titrimetric method	JPP ÚKZÚZ, procedure No. 20135.2	Fertilizers and raw materials for their production
28	Determination of total phosphorus by gravimetric method ⁹	JPP ÚKZÚZ, procedure No. 20160.1	Fertilizers and raw materials for their production
29	Determination of phosphorus by spectrophotometric method ⁴	JPP ÚKZÚZ, procedure No. 20169.1	Fertilizers and raw materials for their production
30	Determination of water-soluble phosphorus by gravimetric method ⁹	JPP ÚKZÚZ, procedure No. 20161.1	Fertilizers and raw materials for their production
31	Determination of total potassium by gravimetric method ¹⁰	JPP ÚKZÚZ, procedure No. 20170.1	Fertilizers and raw materials for their production
32	Determination of potassium by FAES method ⁵	JPP ÚKZÚZ, procedure No. 20066.1, 20064.1	Fertilizers and raw materials for their production
33	Determination of water-soluble potassium by gravimetric method ¹⁰	JPP ÚKZÚZ, procedure No. 20171.1	Fertilizers and raw materials for their production
34	Determination of calcium and magnesium by complexometric titrimetric method ¹¹	JPP ÚKZÚZ, procedure No. 20180.1	Fertilizers and raw materials for their production
35	Determination of calcium and magnesium by FAAS method ¹¹	JPP ÚKZÚZ, procedure No. 20082.1	Fertilizers and raw materials for their production
36	Determination of calcium and magnesium by FAAS method ¹¹ (total and water-soluble)	JPP ÚKZÚZ, procedure No. 20065.1, 20066.1, 20064.1	Fertilizers and raw materials for their production
37	Reserved		



**This Appendix is an integral part of
Certificate of Accreditation No. 548/2022 of 14/11/2022**

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

Ústřední kontrolní a zkušební ústav zemědělský
National Reference Laboratory
Hroznová 63/2, Brno, 603 00, Czech Republic

Ordinal number ¹	Test procedure/method name	Test procedure/ method identification ²	Tested object
38	Determination of water-soluble chlorides in absence of organic matter by titrimetric method	JPP ÚKZÚZ, procedure No. 20021.1	Fertilizers and raw materials for their production
39	Determination of biuret in urea by spectrophotometric method	JPP ÚKZÚZ, procedure No. 20151.1	Fertilizers and raw materials for their production
40	Determination of ash and burnable substances by gravimetric method ¹²	JPP ÚKZÚZ, procedure No. 20010.1	Fertilizers and raw materials for their production
41	Determination of fineness of particles by granulometric method ¹³	JPP ÚKZÚZ, procedure 20231.1	Fertilizers and raw materials for their production
42	Determination of phosphorus soluble in solution of neutral ammonium citrate by gravimetric method ⁹	JPP ÚKZÚZ, procedure No. 20162.1	Fertilizers and raw materials for their production
43	Determination of sulphur by gravimetric method ¹⁴ (total and water-soluble – sulfate form)	JPP ÚKZÚZ, procedure No. 20190.1	Fertilizers and raw materials for their production
44	Determination of electric conductivity by electrochemical method	JPP ÚKZÚZ, procedure No. 20030.1	Fertilizers and raw materials for their production
45	Determination of carbon and nitrogen by elemental analysis	JPP ÚKZÚZ, procedure No. 30995.1	Soil and similar materials
46	Determination of total nitrogen pursuant to Dumas	JPP ÚKZÚZ, procedure No. 40058.1	Vegetable material

¹ asterisk at the ordinal number identifies the tests, which the Laboratory is qualified to carry out outside the permanent laboratory premises

² if the documents identifying the test procedure is dated, only these specific procedures are used. If the document identifying the test procedure is not dated, the latest edition of the specified procedure is used (including any changes)

³ expressed as: moisture, dry matter, original moisture, original dry matter, analytical moisture, analytical dry matter

⁴ expressed as P₂O₅ or P₂O₅ in dry matter

⁵ expressed as K₂O or K₂O in dry matter

⁶ expressed as MgO or MgO in dry matter



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

Ústřední kontrolní a zkušební ústav zemědělský
National Reference Laboratory
Hroznová 63/2, Brno, 603 00, Czech Republic

- ⁷ expressed as: CaO nebo CaO in dry matter
⁸ expressed as N
⁹ expressed as P₂O₅
¹⁰ expressed as K₂O
¹¹ expressed as: magnesium as MgO or MgCO in dry matter, magnesium or MgCO₃ or MgCO₃ in dry matter, calcium as CaO or CaO in dry matter, calcium as CaCO₃ or CaCO₃ in dry matter, sum of calcium and magnesium is being expressed as: CaCO₃ + MgCO₃, CaCO₃ + MgCO₃ in dry matter, or as CaO + MgO,
¹² expressed as: ash, ash in dry matter, burnable substances in dry matter
¹³ expressed as: particles below ... mm, particles from ... to ... mm, particles above ... mm, particles below... mm in dried sample, particles from ... to... mm in dried sample, particles above ... mm in dried sample, impurities above ... mm,
¹⁴ expressed as: sulphate form as S, SO₃²⁻ or SO₄²⁻

Annex:

Flexible scope of accreditation

Ordinal numbers of tests
1 – 8, 10, 11, 13 – 36, 38 – 46

The Laboratory is allowed to modify the test methods listed in the Annex withing the specified scope of accreditation provided the measuring principle is observed. The flexible approach to the scope of accreditation cannot be applied to the tests not included in the Annex.

5. CISTA, NRL, Department of Special Analysis of Vegetable Material and Feeding Stuffs

Tests:

Ordinal number ¹	Test procedure/method name	Test procedure/ method identification ²	Tested object
1	Testing of potato plants and varieties for presence of viruses by ELISA method ³	JPP ÚKZÚZ, procedure No. 40310.1	Potato tuber and haulm
2	Determination of moisture (dry matter) by gravimetric method ⁴	JPP ÚKZÚZ, procedure No. 10001.1	Animal feeding stuffs and raw materials for their production
3	Determination of moisture (dry matter) by gravimetric method ⁴	JPP ÚKZÚZ, procedure No. 50010.1	Vegetable material
4	Determination of nitrogenous substances by titrimetric method	JPP ÚKZÚZ, procedure No. 10014.1	Animal feeding stuffs and raw materials for their production
5	Determination of fat by gravimetric method	JPP ÚKZÚZ, procedure No. 10058.1	Animal feeding stuffs and raw materials for their production



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Certificate of Accreditation No. 548/2022 of 14/11/2022**

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Ústřední kontrolní a zkušební ústav zemědělský
National Reference Laboratory
Hroznová 63/2, Brno, 603 00, Czech Republic

Ordinal number ¹	Test procedure/method name	Test procedure/ method identification ²	Tested object
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
7	Determination of fibre by gravimetric method	JPP ÚKZÚZ, procedure No. 10068.1	Animal feeding stuffs and raw materials for their production
8	Determination of ash by gravimetric method	JPP ÚKZÚZ, procedure No. 10004.1	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 total phosphorus by spectrophotometric method	JPP ÚKZÚZ, procedure No. 10128.1	Animal feeding stuffs and raw materials for their production
12	Determination of water-soluble chlorides as NaCl by titrimetric method	JPP ÚKZÚZ, procedure No. 10129.1	Animal feeding stuffs and raw materials for their production
13	Determination of amino acids ⁵ by LC method with UV detection	JPP ÚKZÚZ, procedure No. 10021.1	Animal feeding stuffs and raw materials for their production
14	Determination of copper, manganese, iron and zinc by FAAS method	JPP ÚKZÚZ, procedure No. 10325.1	Animal feeding stuffs and raw materials for their production
15	Determination of sodium, potassium and magnesium by FAAS/FAES method	JPP ÚKZÚZ, procedure No. 10135.1	Animal feeding stuffs and raw materials for their production
16	Determination of vitamin A, E by HPLC method with UV detection	JPP ÚKZÚZ, procedure No. 10380.1	Animal feeding stuffs and raw materials for their production
17	Determination of robenidin and nicarbazin by HPLC method with UV detection	JPP ÚKZÚZ, procedure No. 10390.1, 10360.1	Animal feeding stuffs and raw materials for their production
18	Determination of monensin, salinomycin and narasin by HPLC method with UV detection	JPP ÚKZÚZ, procedure No. 10350.1	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
19	Determination of fatty acids ⁶ in fats and oils by GC method with FID detector	JPP ÚKZÚZ, procedure No. 10040.1	Oil seeds, animal feeding stuffs and raw materials for their production
20	Determination of glucosinolates ⁷ by HPLC method with UV detection	JPP ÚKZÚZ, procedure No. 10540.1	Rape seeds and products of their processing
21	Determination of arsenic by AAS HG method	JPP ÚKZÚZ, procedure No. 10430.1	Animal feeding stuffs and raw materials for their production
22	Determination of cadmium and lead by AAS method	JPP ÚKZÚZ, procedure No. 10450.1	Animal feeding stuffs and raw materials for their production
23	Determination of mercury by spectrophotometric method	JPP ÚKZÚZ, procedure No. 10420.1	Animal feeding stuffs and raw materials for their production
24	Determination of 5-vinyl-2-thioxazolidone (goitrin) by GC method with FID detector	JPP ÚKZÚZ, procedure No. 10550.1	Animal feeding stuffs and raw materials for their production
25	Determination of phytase activity by spectrophotometric method	JPP ÚKZÚZ, procedure No. 10100.1	Animal feeding stuffs and raw materials for their production
26	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
27	Determination of methionin hydroxyanalogue (alimet) by HPLC method with UV detection	JPP ÚKZÚZ, procedure No. 10330.1	Animal feeding stuffs and raw materials for their production

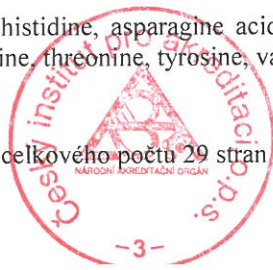
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² if the documents identifying the test procedure is dated, only these specific procedures are used. If the document identifying the test procedure is not dated, the latest edition of the specified procedure is used (including any changes)

³ designated viruses: LR, Y, A, X, M, S (PrimeDiagnostic)

⁴ expressed as: moisture, dry matter, original moisture, original dry matter, analytical moisture, analytical dry matter

⁵ analytes: alanine, arginine, cystine, glycine, histidine, asparagine acid, glutamic acid, isoleucine, leucine, lysine, methionine, phenylalanine, proline, serine, threonine, tyrosine, valine



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- ⁶ analytes: capronic acid (C6:0), caprylic acid (C8:0), capric acid (C10:0), undecanic acid (C11:0), lauric acid (C12:0), tridecanic acid (C13:0), myristic acid (C14:0), myristoleic acid (C14:1), pentadecanic acid (C15:0), cis-10-pentadecenoic acid (C15:1), palmitic acid (C16:0), palmitoleic acid (C16:1), heptadecanic 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), heneicosanic acid (C21:0), cis-11,14-eicosadienic acid (C20:2), behenic acid (C22:0), all cis-8,11,14-eicosatrienic acid (C20:3), cis-13-erucic acid (C22:1), all cis-5,8,11,14-arachidonic acid (C20:4), tricosanic acid (C23:0), cis,cis-13,16-dokosadienic acid (C22:2), lignoceric acid (C24:0), all cis-5,8,11,14,17-eicosapentaenic acid (EPA,C20:5), cis-15-nervonic acid (C24:1), all cis-4,7,10,13,16,19-docosahexaenic acid (DHA,C22:6)
- ⁷ analytes: glucorafanin, glucotropaeolin, glucoiberin, progoitrin, epiprogoitrin, sinigrin, gluconapoleiferin, glucoalyssin, gluconapin, 4-hydroxyglucobrassicin, glucobrassicinapin, 4-methoxyglucobrassicin, gluconasturtiin, gluconeobrassicin, glucobrassicin

Annex:

Flexible scope of accreditation

Ordinal numbers of tests
1 – 27

The Laboratory is allowed to modify the test methods listed in the Annex withing the specified scope of accreditation provided the measuring principle is observed. The flexible approach to the scope of accreditation cannot be applied to the tests not included in the Annex.

6. CISTA, NRL, Department of microbiology and biochemistry

Test:

Ordinal number ¹	Test procedure/method name	Test procedure/ method identification ²	Tested object
1	Detection of presence of GMO by PCR method ³	JPP ÚKZÚZ, procedure No. 60071.1, 60072.1, 60073.1, 60074.1, 10251.1, 10252.1, 10253.1, 10700.1, 10254.1, 10255.1, 10257.1, 10258.1, 10259.1	Vegetable material
2	Determination of influence of chemicals on respiration induced by substrate by incubation test	JPP ÚKZÚZ, procedure No. 31200.1	Fertilizers and raw materials for their production
3	Determination of influence of chemicals, soils and soil extracts on short-term nitrification activity	JPP ÚKZÚZ, procedure No. 31220.2	Fertilizers and raw materials for their production
4	Test of reproduction inhibitor of <i>Enchytraeus crypticus</i>	JPP ÚKZÚZ, procedure No. 31290.1	Fertilizers and raw materials for their production



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Ústřední kontrolní a zkušební ústav zemědělský
National Reference Laboratory
Hroznová 63/2, Brno, 603 00, Czech Republic

Ordinal number ¹	Test procedure/method name	Test procedure/ method identification ²	Tested object
5	Test of reproduction inhibition and mortality of <i>Folsomia candida</i>	JPP ÚKZÚZ, procedure No. 31300.1	Fertilizers and raw materials for their production
6	Qualitative determination of screening elements and genetic modifications by qPCR method using Rotor-Gene Probe PCR kit ⁴	JPP ÚKZÚZ, procedure No.10262.1, 10263.1	Vegetable material
7	Quantitative determination of genetic modifications by qPCR method using Rotor-Gene Probe PCR kit, absolute quantification method ⁵	JPP ÚKZÚZ, procedure No.10264.1, 10265.1	Vegetable material
8	Test of the effects of chemicals on the root length of lettuce (<i>Lactuca sativa</i>)	JPP ÚKZÚZ, procedure No. 31268.1	Fertilizers and raw materials for their production

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² if the documents identifying the test procedure is dated, only these specific procedures are used. If the document identifying the test procedure is not dated, the latest edition of the specified procedure is used (including any changes)

³ determined screening elements: alcohol dehydrogenase C, UDP-glucose pyrophosphorylase, starch invertase, phospholipase D, gene coding group of proteins I/Y, cruciferin A, soy lectin, promotor 35S, terminator NOS, promotor FMV, bar, Cry1Ab, Ctp2-cp4epsps, cp4 epsps, nptII, pat, CaMV.

– Determined transgens:

Cotton: 281-24-236 x 3006-210-23, GHB119, GHB614, LLCotton25, MON531, MON1445, MON15985, MON88913, T304-40, MON88701.

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.

Rice: Bt63, LL601, LL62,

Rape: GT73, MS1xRF1, MS1xRF2, MS8xRF3, T45, TOPAS19/2 (HCN92), DP073496.

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.

⁴ Determined screening elements: bar.

Determined transgens:

Corn: GAT 98140, MON810.

Soya: MON40-3-2, MON89788, MON87701.



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National Reference Laboratory
Hroznová 63/2, Brno, 603 00, Czech Republic

⁵ Determined transgens:

Corn: MON810.

Soya: MON40-3-2, MON89788, MON87701.

Annex:

Flexible scope of accreditation

Ordinal numbers of tests
1 – 8

The Laboratory is allowed to modify the test methods listed in the Annex withing the specified scope of accreditation provided the measuring principle is observed. The flexible approach to the scope of accreditation cannot be applied to the tests not included in the Annex.

7. CISTA, NRL, Department of Testing Plant Protection Products

Tests:

Ordinal number ¹	Test procedure/method name	Test procedure/ method identification ²	Tested object
1	Determination of density by tensiometer	SOP-FCH-07-01 (CIPAC MT 3.1, CIPAC MT 3.3.1)	Plant protection products – liquid formulations
2	Determination of pH by potentiometric method	SOP-FCH-07-02 (CIPAC MT 75.3)	Plant protection products
3	Determination of remains on sieve by gravimetric method	SOP-FCH-07-07 (CIPAC MT 185)	Plant protection products applicable as dispersion in water
4	Determination of wetting by visual method	SOP-FCH-07-05 (CIPAC MT 53.3.1)	Plant protection products – wettable powders and granulates
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
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
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



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Ústřední kontrolní a zkušební ústav zemědělský
National Reference Laboratory
Hroznová 63/2, Brno, 603 00, Czech Republic

Ordinal number ¹	Test procedure/method name	Test procedure/ method identification ²	Tested object
8	Determination of particle size distribution by laser diffraction method	SOP-FCH-08-01 (CIPAC MT 187)	Plant protection products
9	Determination of remains on sieve by gravimetric method	SOP-FCH-08-03 (CIPAC MT 167)	Plant protection products applicable as dispersion in water
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
11	Determination of persistent foaming by visual method	SOP-FCH-10-01 (CIPAC MT 47.2 and 47.3)	Plant protection products
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
13	Determination of sulphate ash by gravimetric method	SOP-FCH-17-01 (CIPAC MT 29)	Plant protection products
14	Determination of surface tension	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
16	Determination of free chlorophenols as 2,4-dichlorophenol or as 4-chloro-2-methylphenol by spectrophotometric method	SOP-CH-10-01 (CIPAC MT 69.1-69.6)	Plant protection products, which contain phenoxy acid as the active substance
17	Determination of xylene in EC formulations by GC method with FID detection	SOP-CH-07-02	Plant protection products – emulsifiable concentrates
18	Determination of glyphosate by HPLC method with UV detection	SOP-CH-10-02 (CIPAC 284/SL/(M)/-)	Plant protection products



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Ústřední kontrolní a zkušební ústav zemědělský
National Reference Laboratory
Hroznová 63/2, Brno, 603 00, Czech Republic

Ordinal number ¹	Test procedure/method name	Test procedure/ method identification ²	Tested object
19	Determination of dibasic and tribasic alcohols by GC method with FID detection ³	SOP-CH-14-01	Plant protection products
20	Determination of toluene by headspace GC method with FID detection	SOP-CH-17-01 (CIPAC MT 198)	Plant protection products
21	Determination of formulation additives in PPP by HPLC method using MS detection ⁴	SOP-CH-17-02	Plant protection products
22	Determination of formulation additives and impurities in PPP by GC method with MS detection ⁵	SOP-CH-19-01	Plant protection products
23	Determination of active substances in PPP by GC method with FID detection ⁶	SOP-CH-19-02	Plant protection products
24	Determination of active substances in PPP by liquid chromatography with UV detection ⁷	SOP-CH-19-03	Plant protection products
25	Determination of dustiness of granulated formulations by gravimetric method	SOP-FCH-19-06 (CIPAC MT 171.1)	Plant protection products
26	Determination of solubility and stability of the solution by gravimetric method	SOP-FCH-19-05 (CIPAC MT 179, 179.1)	Plant protection products
27	Determination of dispersed stability of suspoemulsions by visual method	SOP-FCH-19-04 (CIPAC MT 180)	Plant protection products
28	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
29	Determination of suspensibility of formulations forming suspensions on dilution with water by GC method with FID detection ⁶	SOP-FCH-19-02 (CIPAC MT 184, 184.1)	Plant protection products



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Ordinal number ¹	Test procedure/method name	Test procedure/ method identification ²	Tested object
30	Determination of suspensibility of formulations forming suspensions on dilution with water by liquid chromatography method with UV detection ⁷	SOP-FCH-19-02 (CIPAC MT 184, 184.1)	Plant protection products
31	Determination of spontaneity of dispersion of suspension concentrates by GC method with FID detection ⁶	SOP-FCH-19-03 (CIPAC MT 160)	Plant protection products
32	Determination of spontaneity of dispersion of suspension concentrates by liquid chromatography method with UV detection ⁷	SOP-FCH-19-03 (CIPAC MT 160)	Plant protection products

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² if the documents identifying the test procedure is dated, only these specific procedures are used. If the document identifying the test procedure is not dated, the latest edition of the specified procedure is used (including any changes)

³ analytes - propylenglykol, ethylenglykol, glycerol, 1,6-hexandiol

⁴ analytes - 1,2-benzisothiazol-3-on, 2-methyl-4-isothiazolin-3-one

⁵ analytes - 1,2,3-TMB, 1,2,4-TMB, 1-butanol, 1-methylnaftalen, 1-pentanol, 2-ethyl-1-hexanol, 2-methyl-1-butanol, 2-methylnaftalen, acetophenone, benzyl alcohol, butyl glycol, cumen, cyklohexanon, diaceton alcohol, ethylbenzen, gamma-butyrolactone, isobutanol, mesitylene, methyl octanoate, naftalen, phenetole, propylene carbonate, toluen

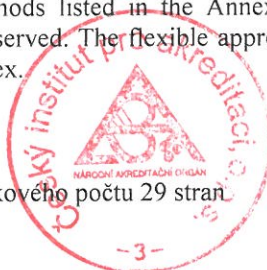
⁶ analytes - azoxystrobin, bixafen, cyflufenamid, difenoconazole, fludioxonil, metalaxyl-M, metazachlor, myclobutanil, pendimethalin, pethoxamide, pirimiphos-methyl, spiroxamin, tebuconazole, hiabendazole, trifloxystrobin

⁷ analytes - acetamiprid, azoxystrobin, clomazone, deltamethrin, difenoconazole, diflufenican, dimethomorph, epoxiconazole, fenhexamid, fipronil, fludioxonil, flufenacet, flurprimidol, giberelin, chlortoluron, metamitron, pendimethalin, pethoxamid, prothioconazole, pyraclostrobin, quizalofop-p-ethyl, sedaxane, silthiofam, s-metolachlor, spinetoram, tebuconazole, tefluthrin, terbuthylazine, thiacloprid, thiophanate-methyl, triclopyr, trifloxystrobin, triflusaluron-methyl, trinexapac-ethyl, triticonazole

Flexible scope of accreditation

Ordinal numbers of tests
1 – 32

The Laboratory is allowed to modify the test methods listed in the Annex withing the specified scope of accreditation provided the measuring principle is observed. The flexible approach to the scope of accreditation cannot be applied to the tests not included in the Annex.



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Explanatory notes

CIPAC MT	Collaborative International Pesticides Analytical Council Miscellaneous Techniques
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/MS	Gas Chromatography with Mass Spectrometric Detection
GC-MS/MS	Gas Chromatography with Tandem Mass Spectrometric Detection
GMO	Genetically Modified Material
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
JPP ÚKZÚZ	Uniform Working Procedures ÚKZÚZ
LC	Liquid Chromatography
LC-MS/MS	Liquid Chromatography with Tandem Mass Spectrometry
MS	Mass Spectrometry
NIRS	Near Infrared Spectroscopy
PCR	Polymerase Chain Reaction
PPP	Plant protection products
SOP	Standard Operation Procedure
UHPLC	Ultra High Performance Liquid Chromatography
UV	Ultraviolet Part of Spectrum
Soils and similar materials	Sediments, substrates, sludge etc.

