

**The Appendix is an integral part of
Certificate of Accreditation No. 442/2023 of 17/08/2023**

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

Agrotest fyto, s.r.o.

CAB number 1463, Grain Quality Department Laboratory (LOKZ)
Havlíčková 2787/121, 767 01 Kroměříž

The laboratory provides opinions and interprets test results.

Detailed information on activities within the scope of accreditation (subject of testing) is given in the section „Specification of the scope of accreditation“.

Tests:

Ordinal number ¹	Test procedure / method name	Test procedure / method identification ²	Subject of the test	Degrees of freedom ³
1	Determination of moisture content by gravimetry	SOP-OKZ-109 (ČSN EN ISO 712; ČSN ISO 6540; ČSN EN ISO 665; ČSN 46 1011-20; ČSN 46 7092-3)	Cereals and cereal products, oilseeds, legumes, feed	-
2	Determination of bulk density, called “mass per hectolitre”	SOP-OKZ-101 (ČSN EN ISO 7971-3)	Cereals	-
3	Determination of sedimentation index (Zeleny test) by volumetry	ČSN EN ISO 5529	Wheat	-
4	Determination of the falling number according to Hagberg-Perten by chronometry	ČSN EN ISO 3093	Wheat, rye, wheat and rye flour, durum wheat and durum wheat semolina	-
5	Determination of wet gluten content and quality (gluten index by Perten) by gravimetry using Glutomatic System	SOP-OKZ-106 (ICC No. 155; ČSN EN ISO 21415-2)	Wheat and wheat flour	-
6	Determination of non-stickiness and machinability of dough obtained visually	SOP-OKZ-107 (Commission Implementing Regulation (EU) No. 2016/1240, Annex I, Part III)	Wheat and wheat flour	-
7	Gravimetric determination of granularity by sieving	ČSN 56 0512-5	Mill products	-
8	Gravimetric determination of ash yield by incineration	ČSN ISO 2171	Cereals and cereal products, pulses and pulses products	-
9	Determination of beta-glucan content using Megazyme kit by spectrophotometry	SOP-OKZ-304 (Megazyme manual)	Cereals and cereal products	-
10	Determination of aflatoxins B1, B2, G1, G2 by HPLC/FLD method	SOP-OKZ-210 (Romer Labs Application Sheet)	Cereals and cereal products, agricultural products	-
11	Determination of vitreous grains of durum wheat (<i>Triticum durum</i>) by gravimetry	SOP-OKZ-117 (ČSN EN 15585)	Durum wheat	-
12	Determination of oil content (extraction method) by gravimetry	SOP-OKZ-307 (ČSN EN ISO 659; Commission Regulation (EC) No. 152/2009, Annex III, Part H, Procedure A)	Agricultural commodities and derived products, plant material	-

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Ordinal number ¹	Test procedure / method name	Test procedure / method identification ²	Subject of the test	Degrees of freedom ³
13	Determination of Besatz by gravimetry	SOP-OKZ-301 (ČSN 46 1011-6; ČSN EN 15587; ČSN EN 16378; ČSN EN ISO 658; ČSN 46 1011-24; ČSN ISO 605)	Cereals, oilseeds, legumes	-
14	Determination of deoxynivalenol by ELISA method using R-Biopharm kit by spectrophotometry	SOP-OKZ-201 (R-Biopharm manual)	Cereals and cereal products	-
15	Determination of zearalenone by ELISA method using R-Biopharm kit by spectrophotometry	SOP-OKZ-202 (R-Biopharm manual)	Cereals and cereal products	-
16	Determination of deoxynivalenol by HPLC/DAD method	SOP-OKZ-208 (Romer Labs Application Sheet)	Cereals and cereal products	-
17	Determination of ochratoxin A by HPLC/FLD method	SOP-OKZ-209 (Romer Labs Application Sheet)	Cereals and cereal products	-
18	Determination of nitrogen by Dumas method and nitrogenous substances by calculation	SOP-OKZ-402 (ICC No. 167; JPP ÚKZÚZ, Procedure 40058.1)	Cereals and cereal products, plants and plant material	-
19	Determination nitrogenous substances from measured values by NIR method	SOP-OKZ-116 (ČSN EN ISO 12099; ČSN EN 15948)	Cereals	-
20	Determination of phosphorus by spectrophotometry	SOP-OKZ-403 A (JPP ÚKZÚZ, Procedure 40060.1)	Cereals and cereal products, plants and plant material	-
21	Determination of phosphorus by spectrophotometry	SOP-OKZ-403 B (JPP ÚKZÚZ, Procedure 30072.1)	Soils	-
22	Determination of elements (K, Ca, Mg, Na, Cu, Mn, Fe, Zn) by AAS method - flame technique	SOP-OKZ-405 A (JPP ÚKZÚZ, Procedures 40070.1, 40080.1, 40110.1)	Cereals and cereal products, plants and plant material	-
23	Determination of elements (K, Ca, Mg, Na, Cd, Pb, Cu, Mn, Fe, Cr, Zn) by AAS method - flame technique	SOP-OKZ-405 B (JPP ÚKZÚZ, Procedures 30071.1, 30073.1, 30400.1, 30410.1, 30430.1)	Soils	-
24	Determination of elements (Cd, Pb, Cu, Cr) by AAS method - by electrothermal atomization	SOP-OKZ-406 A (JPP ÚKZÚZ, Procedure 40130.1)	Cereals and cereal products, plants and plant material	-
25	Determination of elements (Cd, Pb, Cu, Cr) by AAS method - by electrothermal atomization	SOP-OKZ-406 B (JPP ÚKZÚZ, Procedure 30620.1)	Soils	-

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- 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 document identifying the test procedure is dated, only these specific procedures are used. If the document identifying the test procedure is not dated, the latest edition of the specified procedure is used (including any changes)
- ³ the laboratory does not apply a flexible approach to the scope of accreditation

Specification of the scope of accreditation:

Ordinal test number	Detailed information on activities within the scope of accreditation (subject of testing)
1, 8, 9, 10, 14, 15, 16, 17, 18, 20, 22, 24	Cereals and cereal products: grain, meal, flour, food and feed on cereal basis

Explanations:

AAS	Atomic absorption spectrometry
ICC	International Association for Cereal Science and Technology
EU Commission	European Union Commission
EC Commission	Commission of the European Community
SOP-OKZ	Standard operating procedure of LOKZ
JPP ÚKZÚZ	Uniform working procedures Soil analysis I (ÚKZÚZ Brno 2016) Uniform working procedures Soil analysis II (ÚKZÚZ Brno 2019) Uniform working procedures Analysis of plant material (ÚKZÚZ Brno 2014)
HPLC/DAD	High performance liquid chromatography with diode array detector
HPLC/FLD	High performance liquid chromatography with fluorescence detector
ELISA	Enzyme-linked immunosorbent assay
NIR	Near Infrared Spectroscopy