

**The Appendix is an integral part of  
Certificate of Accreditation No. 489/2019 of 27/09/2019**

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

**Státní zdravotní ústav**  
Centre for Health, Nutrition and Food  
Palackého 3a, 612 42 Brno

*The Laboratory has a flexible scope of accreditation permitted as detailed in the Annex.*

*Updated list of activities provided within the flexible scope of accreditation is available at the Laboratory from the Quality Manager.*

**Tests:**

Ordinal number <sup>1)</sup>	Test procedure/method name	Test procedure/method identification <sup>2)</sup>	Tested object
1	Determination of mercury by analyser AMA 254	SOP CH_9 (Altec manual)	Food Biological material <sup>a,b)</sup>
2	Determination of elements by ICP-MS method <sup>2)</sup>	SOP CH_81 (AGILENT TECHNOLOGIES. Inductively Coupled Plasma, Mass Spectrometry. USA: 2005)	Food Biological material <sup>a,b)</sup>
3-4	Reserved		
5	Determination of nitrite and nitrate by HPLC-DAD method	SOP CH_10 (FERREIRA, I.M. and S. SILVA. Quantification of residual nitrite and nitrate in ham by reverse-phase high performance liquid chromatography/diode array detector. Talanta. 2008, (74), 1598-1602)	Food
6	Determination of iodine by spectrophotometry	SOP CH_39 (MAY, S.L.; MAY W.A.; BOURDOUX, P.P.; PINO, S.; SULLIVAN, K.M.; FABERLY, G.F.; Validation of a simple, manual urinary iodine method for estimating the prevalence of iodine-deficiency disorders, and interlaboratory comparison with other methods. The American Journal of Clinical Nutrition, 1997;65:1441-5)	Food Biological material <sup>a)</sup>
7	Determination of fusarium mycotoxins by LC-MS/MS method <sup>7)</sup>	SOP CH_73 (Application note Mycotoxins in Grain Samples: Simultaneous Analysis of 10 Mycotoxins in Crude Extracts of Different Types of Grains by LC/MS/MS, 2008, Applera Corporation, USA)	Food Biological material <sup>a,b)</sup>
8-9	Reserved		

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10	Determination of PCB and OCP by GC-MS/MS method <sup>10)</sup>	SOP CH_13 (CLIFTON E. MELOAN, Ph.D., Pesticides laboratory training manual, U.S. AID, U.S. EPA, U.S. FDA Published by AOAC International 1996)	Food Biological material <sup>a)</sup>
11	Determination of fatty acids by GC-FID method <sup>11)</sup>	SOP CH_60A,B (ČSN ISO 5508:1994 )	Food Biological material <sup>a)</sup>
12	Determination of total fat by gravimetry	SOP CH_91 (ČSN ISO 1443:1994)	Food Biological material <sup>a)</sup>
13	Determination of total nitrogen according to Kjeldahl by titration and calculation of proteins	SOP CH_89 (ČSN ISO 1871:1994)	Food Biological material <sup>a)</sup>
14	Determination of dry matter by gravimetry	SOP CH_86 (ČSN 58 0120:1968)	Food Biological material <sup>a)</sup>
15	Determination of ash content by gravimetry	SOP CH_87 (J. Davídek, Laboratorní příručka analýzy, SNTL Praha 1981)	Food Biological material <sup>a)</sup>
16	Determination of moulds by active sampling method using an aeroscope	SOP T_14 (Merck manual)	Indoor environment <sup>c)</sup>
17	Enumeration of yeasts and moulds by culture method	ČSN ISO 21527- 1 ČSN ISO 21527- 2	Food
18	Detection and identification of toxinogenic moulds by culture method <sup>18)</sup>	SOP T_12 (SAMSON, R. A, HOCKING A.D., PITT, J.I., KING, A.D.(eds.) Modern method in food mycology. Amsterdam, London, New York, Tokyo: Elsevier, 1992. ISBN: 0- 444-88939-6)	Food
19	Detection of a specific DNA sequence by PCR method <sup>19)</sup>	SOP T_54 (ČSN EN ISO 21569; CRL JRC validated methods)	Food Biological material <sup>b)</sup>
20	Detection of a specific DNA sequence by Real-time PCR method <sup>20)</sup>	SOP T_97 (ČSN EN ISO 21569)	Food Biological material <sup>b)</sup>

<sup>1</sup> Asterisk at the ordinal number identifies the tests, which the Laboratory is qualified to carry out outside the permanent laboratory premises.

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

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PCRad 2) in the range: beryllium, sodium, magnesium, aluminium, phosphorus, potassium, calcium, vanadium, chromium, manganese, iron, cobalt, nickel, copper, zinc, arsenic, selenium, molybdenum, silver, cadmium, barium, thallium, lead, thorium, uranium

ad 7) in the range: deoxynivalenol, 3-acetyldeoxynivalenol, 15-acetyldeoxynivalenol, deoxynivalenol-3-glucoside, nivalenol, fusarenone X, zearalenone, diacetoxyscirpenol, T-2, HT-2

ad 10) in the range: HCB, alpha-HCH, beta-HCH, gamma-HCH, delta-HCH, heptachlor, heptachlorepoxyde (B), heptachlorepoxyde (A), aldrin, endrin, endrinetone, dieldrin, endosulfan I, endosulfan II, endosulfan sulfate, mirex, o,p'-DDE, p,p'-DDE, o,p'-DDD, p,p'-DDD, o,p'-DDT, p,p'-DDT, PCB 28, PCB 52, PCB 101, PCB 105, PCB 118, PCB 138, PCB 153, PCB 180, methoxychlor, alpha-chlordan, gamma chlordan, oxychlordan

ad 11) in the range: butyric; caproic; caprylic; caprinic; undecanoic; lauric; tridecanoic; myristic; myristelaidic; myristoleic; pentadecanoic; pentadecenoic; palmitic; palmitelaidic; palmitoleic; heptadecanoic; heptadecenoic; stearic; petroselaidic; elaidic; transvaccenic; oleic; vaccenic; linolelaidic; cis-9, trans-12-octadecadienoic; trans-9, cis-12-octadecadienoic; linolic; trans-9,12,15-octadecatrienoic; trans-9, trans-12, cis-15-octadecatrienoic; trans-9, cis-12,trans15-octadecatrienoic; cis-9, trans-12, trans-15-octadecatrienoic, cis-9, cis-12, trans-15-octadecatrienoic; cis-9,trans-12,cis-15-octadecatrienoic; trans-9,cis-12,cis-15-octadecatrienoic; arachic; steridonic;  $\gamma$ -linolenic; gondoic;  $\alpha$ -linolenic; heneicosanoic; eicosadienoic; behenic; dihomogamma-linolenic; erucic, eicosatrienoic, arachidonic, tricosanoic, docosadienoic, lignoceric; eicosapentaenoic; docosatetraenoic; nervonic; docosapentaenoic (n-3); docosapentaenoic (n-6); docosahexaenoic

ad 18) in the range: moulds, *Aspergillus flavus* and *Aspergillus parasiticus*, *Penicillium verrucosum*

ad 19) in the range: 35S, NOS, nptII, RoundupReady Soya, lectin, Bt176, Bt11, IVR, LibertyLink, MON810, Bt10, trnL intron

ad 20) in the range: 35S promotor, NOS terminator

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**Tested object:**

ad a) blood, urine, mother's milk, animal tissue

ad b) plant tissue (leaves, seeds, bulbs, tubers, fruits)

ad c) indoor environment (food industry facilities, public catering kitchens, laboratories)

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**Explanations of abbreviations:**

CRL JRC	– Community Reference Laboratory Joint Research Centre
DAD	– Diode Array Detector
DNA	– Deoxyribonucleic Acid
ICP-MS	– Inductively Coupled Plasma Mass Spectrometry
LC-MS/MS	– Liquid Chromatography/Mass Spectrometry
GC/MS/MS	– Gas Chromatography/Mass Spectrometry
GC/FID	– Gas Chromatography with Flame Ionization Detector
GMO	– Genetically Modified Organisms
OCP	– Organochlorine Pesticides
PCB	– Polychlorinated Biphenyls
PCR	– Polymerase Chain Reaction

Annex:

Flexible scope of accreditation

<b>Ordinal numbers of tests</b>
2, 7, 10, 11, 18, 19, 20

The Laboratory is allowed to modify the test methods listed in the Annex within 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.