



NÁRODNÍ AKREDITAČNÍ ORGÁN

EA MLA Signatory  
Český institut pro akreditaci, o.p.s.  
Olšanská 54/3, 130 00 Praha 3

issues

according to section 16 of Act No. 22/1997 Coll., on technical requirements for products, as amended

# CERTIFICATE OF ACCREDITATION

No. 771/2020

**Výzkumný ústav organických syntéz a.s.**  
with registered office č.p. 296, 533 54 Rybitví, Company Registration No. 60108975

to the Testing Laboratory No. 1057  
ANALYTIKA

Scope of accreditation:

Analytical and physico-chemical testing of biological substances, chemical substances, chemical products, waste and samples from the environment, including sampling to the extent as specified in the appendix to this Certificate.

This Certificate of Accreditation is a proof of Accreditation issued on the basis of assessment of fulfillment of the accreditation criteria in accordance with

ČSN EN ISO/IEC 17025:2018

In its activities performed within the scope and for the period of validity of this Certificate, the Body is entitled to refer to this Certificate, provided that the accreditation is not suspended and the Body meets the specified accreditation requirements in accordance with the relevant regulations applicable to the activity of an accredited Conformity Assessment Body.

This Certificate of Accreditation replaces, to the full extent, Certificate No.: 200/2020 of 26. 3. 2020, or any administrative acts building upon it.

The Certificate of Accreditation is valid until: **3. 2. 2022**

Prague: 16. 12. 2020



Jiří Růžička  
Director  
Czech Accreditation Institute  
Public Service Company

The Appendix is an integral part of  
Certificate of Accreditation No. 771/2020 of 16/12/2020

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

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*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	Reserved		
2	Determination of nitrocompounds by GC-MS method <sup>3)</sup>	ZP 3	Surface and waste water
3	Determination of volatile organic compounds by GC-MS method <sup>4)</sup>	ZP 4	Surface and waste water
4	Determination of phenolic compounds by GC-MS <sup>5)</sup>	ZP 6	Surface and waste water
5	Determination of polychlorinated biphenyls by GC-MS method. Congener analysis <sup>6)</sup>	ZP 7	Surface and waste water
6	Determination of polychlorinated biphenyls by GC-MS method. Congener analysis <sup>6)</sup>	ZP 8	Soils and solid waste
7	Determination of polychlorinated biphenyls by GC-MS method using internal marked standards <sup>7)</sup>	ZP 10	Chemical products
8	Determination of specified aromatic amino compounds by GC-MS method <sup>8)</sup>	ZP 11	Surface and waste water
9	Determination of amide value of pectins by titration	ZP 91	pectins
10	Determination of mercury by single purpose mercury analyzer	ZP 16 A (ČSN 757440)	Water and aqueous extracts



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Ordinal number <sup>1</sup>	Test procedure/ method name	Test procedure/ method identification <sup>2</sup>	Tested object
11	Determination of mercury by single purpose mercury analyzer	ZP 16 B	Solid waste, soils, composts, sludge, sediments, organic and inorganic compounds
12	Determination of elements by ICP-OES method <sup>9)</sup>	ZP 17 (ČSN EN ISO 11885)	Water and aqueous extracts
13	Determination of Astaxanthin content by HPLC method	ZP 92	Oleoresin
14	Reserved		
15	Determination of elements by ICP-OES method <sup>10)</sup>	ZP 20 (ČSN EN ISO 11885)	Soils, composts, sludge, sediments, solid waste
16-17	Reserved		
18	Determination of elements by ICP-OES method <sup>11)</sup>	ZP 26 (ČSN EN ISO 11885)	Organic compounds
19-20	Reserved		
21	Determination of elements by ICP-OES method <sup>12)</sup>	ZP 29 (ČSN EN ISO 11885)	Inorganic compounds

<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)

Annex:

Flexible scope of accreditation

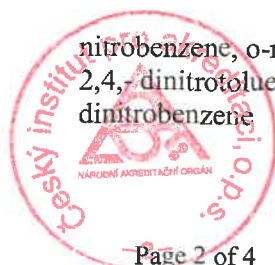
Ordinal numbers of tests
1-8, 12, 15, 18, 21

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.

Explanations:

<sup>3)</sup> analytes for ordinal number 2

nitrobenzene, o-nitrotoluene, m-nitrotoluene, p-nitrotoluene, 2,4- dinitrotoluene, 2,6-dinitrotoluene, 1-chloro-2-4- dinitrobenzene



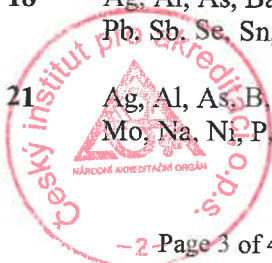
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- 4) analytes for ordinal number 3 chloroform, 1,2,-dichloroethane, benzene, tetrachloromethane, trichloroethylene, 1,1,2-trichloroethane, octane, toluene, tetrachloroethylene, butylacetate, chlorobenzene, ethylbenzene, m-xylene + p-xylene, o-xylene, styrene, 1,2,4,-trimethylbenzene, m-dichlorobenzene, p-dichlorobenzene, o-dichlorobenzene, o-chlorotoluene, 1,2,3-trichlorobenzene, 1,3,5-trichlorobenzene, 1,2,4-trichlorobenzene, undecane, 1,2,-trans-dichloroethene, 1,1-trans-dichloroethene, hexachlorobutadiene, dichloromethane, ethyl acetate, naphthalene
- 5) analytes for ordinal number 4 phenol, o-chlorophenol, m-chlorophenol, p-chlorophenol, 2,4,-dichlorophenol, 2,5,-dichlorophenol, 2,3,-dichlorophenol, 3,4,-dichlorophenol, 2,4,6-trichlorophenol, 2,4,5-trichlorophenol, pentachlorophenol, o-methylphenol, 2,4-dibromophenol, m-methylphenol, p-methylphenol, 2,6-dimethylphenol, 2,4-dimethylphenol, 3,5-dimethylphenol, 2-naphthol
- 6) analytes for ordinal number 5+6 2,4,4'-TriCB (28), 2,2',5,5'-tetraCB(52), 2,2',4,5,5'-pentaCB(101), 2,2',3,4,4',5'-hexaCB(138), 2,2',4,4',5,5'-hexaCB(153), 2,2',3,4,4',5,5'-heptaCB(180), DekaCB(209), hexachlorocyclohexane, pentachlorobenzene, hexachlorobenzene
- 7) analytes for ordinal number 7
- |   |                                      |
|---|--------------------------------------|
| PCB-28  | 2,4,4'-trichlorobiphenyl             |
| PCB-52  | 2,2',5,5'-tetrachlorobiphenyl        |
| PCB-101   | 2,2',4,5,5'-pentachlorobiphenyl      |
| PCB-118   | 2,3',4,4',5-pentachlorobiphenyl      |
| PCB-138   | 2,2',3,4,4',5'-hexachlorobiphenyl    |
| PCB-153   | 2,2',4,4',5,5'-hexachlorobiphenyl    |
| PCB-180   | 2,2',3,4,4',5,5'-heptachlorobiphenyl |
| PCB-209   | Decachlorobiphenyl                   |
| Sum of chlorohomolog groups Cl <sub>1</sub> -Cl <sub>10</sub> |                                      |
- 8) analytes for ordinal number 8 aniline, o-chloroaniline, m-chloroaniline + p-chloroaniline, 2,4,6-trimethylaniline, 4-fluoroaniline, 2,5-dichloroaniline, 3,4-dichloroaniline, N-ethylaniline
- 9) analytes for ordinal number 12 Ag, Al, As, B, Ba, Be, Bi, Ca, Cd, Co, Cr, Cu, Fe, K, Li, Mg, Mn, Mo, Na, Ni, P, Pb, Pd, S, Sb, Se, Si, Sn, Sr, Ti, V, W, Zn, Zr
- 10) analytes for ordinal number 15 As, Ba, Be, Ca, Cd, Co, Cr, Cu, K, Mg, Mo, Ni, P, Pb, Sb, Sn, V, Zn
- 11) analytes for ordinal number 18 Ag, Al, As, Ba, Ca, Cd, Co, Cr, Cu, Fe, K, Mg, Mn, Na, Ni, Pd, Pb, Sb, Se, Sn, Zn
- 12) analytes for ordinal number 21 Ag, Al, As, B, Ba, Be, Bi, Ca, Cd, Co, Cr, Cu, Fe, K, Li, Mg, Mn, Mo, Na, Ni, P, Pb, Sb, Se, Sn, Sr, Ti, Tl, V, Zn



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DSC	Differential Scanning Calorimetry
ED	Electrochemical Detector
GC/MS	Gas Chromatography/Mass Spectrometry
ICP - OES	Inductively Coupled Plasma Optical Emission Spectrometry
MoE	Ministry of Environment
OES	Optical Emission Spectrometry
VP	Internal Procedure (Internal Specification of the Laboratory)
ZP	Testing Procedure (Internal Specification of the Laboratory)
Aqueous extracts	Aqueous extracts of solid samples according to MoE Reg. No. 294/2005 Coll. and ČSN EN 12457
	Extracts of materials intended for contact with food according to the Commission Regulation (EU) No. 10/2011 as amended
Organic compounds	Dyes, pigments, selected raw materials, etc.
Inorganic compounds	Inorganic salts, acids, etc.

