

**The Appendix is an integral part of
Certificate of Accreditation No. 428/2022 of 01/09/2022**

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

Chmelařský institut s.r.o.
Chemical laboratory of the Hop Research Institute
Kadaňská 2525, 438 01 Žatec

Tests:

Ordinal number ¹	Test procedure/ method name	Test procedure/ method identification ²	Tested object
1	Determination of moisture gravimetrically	SOP 1 (ČSN 46 2520-3, EBC 7.2)	Raw hops and hop pellets
2	Determination of lead conductance value by titration method after toluene extraction	SOP 2 (ČSN 46 2520-15)	Raw hops and hop pellets
3	Determination of lead conductance value by titration method after diethylether extraction	SOP 3 (EBC 7.5)	Raw hops and hop pellets
4	Determination of lead conductance value by titration method after diethylether extraction	SOP 4 (EBC 7.6)	Hop extracts
5	Determination of alpha and beta bitter acids ³ by HPLC-DAD method	SOP 5 (EBC 7.7, ČSN 46 2520-17)	Raw hops, hop pellets, hop extracts
6	Determination of pesticide residues ⁴ by QuEChERS method in conjunction with HPLC-MS/MS (TOF)	SOP 6 (ČSN EN 15662)	Raw hops, hop pellets, hop extracts

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 alpha acids (cohumulone, humulone, adhumulone) beta acids (colupulone, lupulone, adlupulone), cohumulone (as a relative proportion in alpha acids), colupulone (as a relative proportion in beta acids)

⁴ ametoctradin, azoxystrobin, bifenazate, boscalid, cymoxanil, dimetomorph, fenpyroximate, mandipropamid, pyraclostrobin, quinoxiphen, flonicamid, fluopicolide, hexythiazox, chlorantraniliprol, imidacloprid, metalaxyl, spirotetramat, spirotetramat-enol, spirotetramat-enal-glukosid, thiamethoxam, bifenthrin, difenoconazol, fenpropimorph, metrafenon, myclobutanil, propamocarb, spirodiclofen, trifloxystrobin, triadimenol, triadimefon

Explanations:

EBC Analytica EBC, European Brewery Convention (EBC) Analysis Committee, Fachverlag Hans Carl, Nürnberg, Germany, ISBN 978-3-418-00759-5.

HPLC-DAD High-performance liquid chromatography with a diode-array detector

HPLC-MS/MS (TOF) High-performance liquid chromatography with "Time Of Flight" mass detector

QuEChERS Dispersive solid-phase extraction