University of Chemistry and Technology, Prague
Metrological and Testing Laboratory UCT Prague

Testing laboratory No. 1316.2 accredited by the CAI according to the EN ISO/IEC 17025:2018

L 1316.2

Address: VSCHT Praha, Technicka 1905/5, 166 28 Prague 6, Czech Republic (tel.: +420 602833424; +420 220443184; http://uapv.vscht.cz/mzl)

Test certificate ML: 3600/22

print no.: ENG_864/22

Client: Hempoint, s.r.o.
Brtnická 4903/108
586 01 Jihlava
Česká republika

Sample received: 16.12.2022
Order no.: 15.12.2022
Sample description (client's): Květ konopí odrůda MidWest

Testing item: Plant material
packaging: polyethylene bag (PE)
quantity: 10 g

Date of testing: 16.12.2022 - 10.01.2023
Location of testing: facilities of the MZL UTC, Technická 1903/3, 166 28 Prague 6 - Dejvice
Testing methods used: KM 14i: GC-HRMS
KM 21: LC-MS

TEST RESULTS:

CANNABINOIDS

Analyte	Result*	Expanded uncertainty	Unit	Testing method	Notice
CBD (cannabidiol)	0.19	0.02	% weight	KM 21	
CBDA (cannabidiolic acid)	8.0	0.8	% weight	KM 21	
Δ^9-THC (delta-9-tetrahydrocannabinol)	0.027	0.004	% weight	KM 21	
Δ^8-THC (delta-8-tetrahydrocannabinol)	<0.00010	-	% weight	KM 21	
Δ^9-THCA-A (delta-9-tetrahydrocannabinolic acid-A)	0.26	0.02	% weight	KM 21	
Δ^9-THCV (delta-9-tetrahydrocannabivarine)	<0.00010	-	% weight	KM 21	
Δ^8-THCV (delta-8-tetrahydrocannabivarine)	<0.00010	-	% weight	KM 21	F)
THCVA (tetrahydrocannabivarinic acid)	0.00099	0.00035	% weight	KM 21	
CBN (cannabinol)	0.00012	0.00004	% weight	KM 21	
CBNA (cannabinolic acid)	0.0010	0.0003	% weight	KM 21	
CBG (cannabigerol)	0.011	0.001	% weight	KM 21	
CBGA (cannabigerolic acid)	0.12	0.01	% weight	KM 21	
CBDV (cannabidivarine)	0.00053	0.00019	% weight	KM 21	
CBDVA (cannabidivarinic acid)	0.023	0.003	% weight	KM 21	
CBC (cannabichromene)	0.024	0.003	% weight	KM 21	
CBCA (cannabichromenic acid)	0.59	0.06	% weight	KM 21	
CBL (cannabicyclol)	0.00019	0.00006	% weight	KM 21	
CBLA (cannabicyclolic acid)	0.012	0.002	% weight	KM 21	
CBT (cannabicitran)	0.00026	0.00006	% weight	KM 21	F)
CBE (cannabielsoin)	<0.00010	-	% weight	KM 21	F)
CBDP (cannabidiphorol)	<0.00010	-	% weight	KM 21	F)
Δ^9-THCP (delta-9-tetrahydrocannabiphorol)	<0.00010	-	% weight	KM 21	F)
CBDB (cannabidibutol)	0.00042	0.00011	% weight	KM 21	F)
Δ^9-THCB (delta-9-tetrahydrocannabutol)	<0.00010	-	% weight	KM 21	F)
CBDH (cannabidihexol)	<0.00010	-	% weight	KM 21	F)
Δ^9-THCH (delta-9-tetrahydrocannabihexol)	<0.00010	-	% weight	KM 21	F)
CBCV (cannabichromevarine)	<0.00010	-	% weight	KM 21	F)
CBCVA (cannabichromevarinic acid)	0.0020	0.0003	% weight	KM 21	F)

Analyte	Result*	Expanded uncertainty	Unit	Testing method	Notice
CBCO (cannabichromeorcin)	<0.00010	-	% weight	KM 21	F)
CBGAQ (cannabigerol quinone acid)	0.00036	0.00009	% weight	KM 21	F)
CBND (cannabinodiol)	<0.00010	-	% weight	KM 21	F)
CBV (cannabivarine)	<0.00010	-	% weight	KM 21	F)
CBGOA (cannabigerorcinic acid)	0.00020	0.00005	% weight	KM 21	F)
CBGM (cannabigerol monomethyl ether)	<0.00010	-	% weight	KM 21	F)

TERPENES

Analyte	Result*	Expanded uncertainty	Unit	Testing method	Notice
α-pinene	1030	82	mg/kg	KM 14i	
camphen	29	5	mg/kg	KM 14i	
sabinene	<5	-	mg/kg	KM 14i	
β-pinene	550	66	mg/kg	KM 14i	
myrcene	5040	403	mg/kg	KM 14i	
α-phellandrene	<25	-	mg/kg	KM 14i	
3-caren	<25	-	mg/kg	KM 14i	
α-terpinene	<25	-	mg/kg	KM 14i	
p-cymene	11	2	mg/kg	KM 14i	
limonene	415	54	mg/kg	KM 14i	
eucalyptol	<5	-	mg/kg	KM 14i	
β-ocimene	<25	-	mg/kg	KM 14i	
γ-terpinene	<5	-	mg/kg	KM 14i	
sabinene hydrate	<5	-	mg/kg	KM 14i	
α-terpinolene	<5	-	mg/kg	KM 14i	
fenchone	<5	-	mg/kg	KM 14i	
linalool	<25	-	mg/kg	KM 14i	
fenchol	124	16	mg/kg	KM 14i	
isopulegol	<25	-	mg/kg	KM 14i	
camphor	<5	-	mg/kg	KM 14i	
isoborneol	<5	-	mg/kg	KM 14i	
borneol	<5	-	mg/kg	KM 14i	
menthol	<25	-	mg/kg	KM 14i	
terpineol (sum of isomers)	62	8	mg/kg	KM 14i	
pulegone	<5	-	mg/kg	KM 14i	
α-cedrene	<5	-	mg/kg	KM 14i	
β-caryophyllene	3220	258	mg/kg	KM 14i	
α-humulene	1140	91	mg/kg	KM 14i	
trans-nerolidol	<250	-	mg/kg	KM 14i	
caryophyllene oxide	<50	-	mg/kg	KM 14i	
guaiol	<250	-	mg/kg	KM 14i	
α-bisabolol	1810	145	mg/kg	KM 14i	
phytol	<250	-	mg/kg	KM 14i	

* the sign "<" indicate that concentration is lower than this value, i.e. below limit of quantitation (LOQ)
F) existing testing method was modified/extended in the flexible scope of accreditation

Specification used for the assessment of test results:

Expanded uncertainty was calculated using coverage factor k = 2 corresponding to a coverage probability of approximately 95%.
Uncertainty was calculated and stated according to the EA-4/16 and manual Kvalimetrie 11 (issued by EURACHEM CZ). Uncertainty of sampling is not covered. Compliance is evaluated with respect to the uncertainty of test result according to the Guide ILAC-G8.
The results given herein apply only to the sample as received. This certificate shall not be reproduced except in full, without written approval of the Laboratory. The certificate does not substitute any other legal document. Laboratory is not responsible for information supplied by customer, if such information can affect the validity of results.

Appendix:

Digitálně podepsal prof. Ing. Vladimír Kocourek, CSc.
Datum: 2023.01.10 14:19:39 +01'00'

Prof. Dr. Jana Hajšlová, head of the laboratory

The end of Certificate