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Test certificate ML: 2079/24

print no.: ENG_716/23

Client: Green DNA GmbH.
Chilehaus A, Fischertwiete 2
20095 Hamburg
Deutschland

Sample received: 03.01.2024
Order no.: 01.01.2024
Sample description (client's): 9% THCH + 35% 10-OH

Testing item: vape liquid
packaging: tube
quantity: 1 g
Date of testing: 09.01.2024
Location of testing: facilities of the MZL UTC, Technická 1903/3, 166 28 Prague 6 - Dejvice
Testing methods used: KM 01: GC-MS (EN 15662)
KM 02: LC-MS/MS (EN 15662)
KM 21: LC-MS
SOP 70.3: AAS-hydridy
SOP 70.4: AAS-AMA
SOP 70.72b: GF-AAS

TEST RESULTS:

PESTICIDE RESIDUES

Analyte	Result*	Expanded uncertainty	Unit	Testing method	Notice
avermectin B1a	<0.20	-	mg/kg	KM 02	
abamectin (sum of avermectin B1a, avermectin B1b expressed as avermectin B1a)	<0.40	-	mg/kg	KM 02	
avermectin B1b	<0.20	-	mg/kg	KM 02	
acephate	<0.10	-	mg/kg	KM 02	
acetamiprid	<0.10	-	mg/kg	KM 02	
acetochlor	<0.20	-	mg/kg	KM 02	
aclonifen	<0.20	-	mg/kg	KM 02	
acrinathrin and its enantiomer	<0.20	-	mg/kg	KM 02	
alachlor	<0.20	-	mg/kg	KM 02	
aldicarb	<0.20	-	mg/kg	KM 02	
aldicarb (sum of aldicarb, its sulfoxide and its sulfone, expressed as aldicarb)	<0.40	-	mg/kg	KM 02	
aldicarb-sulfone	<0.10	-	mg/kg	KM 02	
aldicarb-sulfoxide	<0.10	-	mg/kg	KM 02	
aldrin	<0.50	-	mg/kg	KM 01	
aldrin and dieldrin (aldrin and dieldrin combined expressed as dieldrin)	<0.80	-	mg/kg	KM 01	
ametoctradin	<0.10	-	mg/kg	KM 02	
ametryn	<0.10	-	mg/kg	KM 02	
asulam	<0.10	-	mg/kg	KM 02	
atrazine	<0.10	-	mg/kg	KM 02	

azadirachtin	<0.50	-	mg/kg	KM 02	
azinphos-ethyl	<0.10	-	mg/kg	KM 02	

Analyte	Result*	Expanded uncertainty	Unit	Testing method	Notice
vamidothion	<0.10	-	mg/kg	KM 02	
vamidothion sulfone	<0.10	-	mg/kg	KM 02	
vamidothion sulfoxide	<0.10	-	mg/kg	KM 02	
vinclozolin	<0.50	-	mg/kg	KM 01	
zoxamide	<0.10	-	mg/kg	KM 02	
2-phenylphenol	<0.10	-	mg/kg	KM 01	

CANNABINOIDS

Analyte	Result*	Expanded uncertainty	Unit	Testing method	Notice
CBD (cannabidiol)	2.56	0.04	% weight	KM 21	
CBDA (cannabidiolic acid)	<0.00025	-	% weight	KM 21	
Δ^9 -THC (delta-9-tetrahydrocannabinol)	<0.00025	-	% weight	KM 21	
Δ^8 -THC (delta-8-tetrahydrocannabinol) Δ^8 -THC (delta-8-tetrahydrocannabinol)	<0.00025	-	% weight	KM 21	
Δ^9 -THCA-A (delta-9-tetrahydrocannabinolic acid-A)	<0.00025	-	% weight	KM 21	
Δ^8 -THCA-A (delta8-tetrahydrocannabinolic acid A)	<0.00050	-	% weight	KM 21	
Δ^9 -THCV (delta-9-tetrahydrocannabivarine)	<0.00050	-	% weight	KM 21	
Δ^8 -THCV (delta-8-tetrahydrocannabivarine)	<0.00050	-	% weight	KM 21	
THCVA (tetrahydrocannabivarinic acid)	<0.00025	-	% weight	KM 21	
CBN (cannabinol)	5.87	<0.02	% weight	KM 21	
CBNA (cannabinolic acid)	<0.00025	-	% weight	KM 21	
CBG (cannabigerol)	25.23	0.46	% weight	KM 21	
CBGA (cannabigerolinic acid)	<0.00025	-	% weight	KM 21	
CBDV (cannabidivarine)	<0.00050	-	% weight	KM 21	
CBDVA (cannabidivarinic acid)	<0.00025	-	% weight	KM 21	
CBC (cannabichromene)	5.39	<0.02	% weight	KM 21	
CBCA (cannabichromenic acid)	<0.00025	-	% weight	KM 21	
CBL (cannabicyclol)	<0.00050	-	% weight	KM 21	
CBLA (cannabicyclololic acid)	<0.00025	-	% weight	KM 21	
CBT (cannabicitran)	<0.00050	-	% weight	KM 21	
CBE (cannabielsoin)	<0.0025	-	% weight	KM 21	
CBDP (cannabidiphorol)	0.005	-	% weight	KM 21	
Δ^9 -THCP (delta-9-tetrahydrocannabiphorol)	0.005	-	% weight	KM 21	
CBDB (cannabidibutol)	0.005	-	% weight	KM 21	
Δ^9 -THCB (delta-9-tetrahydrocannabutol)	0.005	-	% weight	KM 21	
CBDH (cannabidihexol)	<0.00050	-	% weight	KM 21	
Δ^9 -THCH (delta-9-tetrahydrocannabihexol)	8.92	0.28	% weight	KM 21	
CBCV (cannabichromevarine)	<0.00050	-	% weight	KM 21	
CBCVA (cannabichromevarinic acid)	<0.00050	-	% weight	KM 21	
CBCO (cannabichromeorcin)	<0.00050	-	% weight	KM 21	
CBGAQ (cannabigerol quinone acid)	<0.00050	-	% weight	KM 21	
CBND (cannabinodiol)	<0.00050	-	% weight	KM 21	
CBV (cannabivarine)	0.0028	0.0004	% weight	KM 21	
CBVA (cannabivarinic acid)	<0.00050	-	% weight	KM 21	
CBGV (cannabigerovarine)	<0.00050	-	% weight	KM 21	
CBGVA (cannabigerivarinic acid)	<0.00050	-	% weight	KM 21	
(R)-HHC (9(R)-hexahydrocannabinol)	<0.00050	-	% weight	KM 21	
(S)-HHC (9(S)-hexahydrocannabinol)	<0.00050	-	% weight	KM 21	
CBGO (cannabigerorcine)	<0.00050	-	% weight	KM 21	
CBGOA (cannabigerorcinic acid)	<0.00050	-	% weight	KM 21	
CBGM (cannabigerol monomethyl ether)	<0.00050	-	% weight	KM 21	
CBNM (cannabinol monomethyl ether)	<0.00050	-	% weight	KM 21	
CBGB (cannabigerobutol)	<0.00050	-	% weight	KM 21	
Δ^9 -THC equivalents (sum of Δ^9 -THC + Δ^9 -THCA-A x 0,877)	<0.00050	-	% weight	KM 21	
CBD equivalents (sum of CBD + CBDA x 0,877)	2.562	0.003	% weight	KM 21	
CBN equivalents (sum of CBN + CBNA x 0,876)	5.872	0.017	% weight	KM 21	

CBG equivalents (sum of CBG + CBGA x 0,878)	25.236	0.002	% weight	KM 21	
CBDV equivalents (sum of CBDV + CBDVA x 0,867)	<0.00050	-	% weight	KM 21	
CBC equivalents (sum of CBC + CBCA x 0,877)	5.395	0.012	% weight	KM 21	
THCV equivalents (sum of THCV + THCVA x 0,867)	<0.00050	-	% weight	KM 21	
CBCV equivalents (sum of CBCV + CBCVA x 0,867)	<0.00050	-	% weight	KM 21	

Analyte	Result*	Expanded uncertainty	Unit	Testing method	Notice
CBL equivalents (sum of CBL + CBLA x 0,877)	<0.00050	-	% weight	KM 21	
(R)-HHCP (9(R)-hexahydrocannabiphorol)	<0.00050	-	% weight	KM 21	
(S)-HHCP (9(S)-hexahydrocannabiphorol)	<0.00050	-	% weight	KM 21	
(R)-HHCPO (9(R)-hexahydrocannabiphorol acetate)	<0.005	0.0005	% weight	KM 21	
(S)-HHCPO (9(S)-hexahydrocannabiphorol acetate)	<0.005	0.0006	% weight	KM 21	
(R)-HHCO (9(R)-hexahydrocannabinol acetate)	<0.005	-	% weight	KM 21	
(S)-HHCO (9(S)-hexahydrocannabinol acetate)	<0.005	-	% weight	KM 21	
(R)-H4CBD (1(R)-tetrahydrocannabinol)	<0.00050	-	% weight	KM 21	
(S)-H4CBD (1(S)-tetrahydrocannabinol)	<0.00050	-	% weight	KM 21	
cis- Δ^9 -THC (cis-delta-9-tetrahydrocannabinol)	<0.00050	-	% weight	KM 21	
exo-THC (exo-tetrahydrocannabinol)	<0.00050	-	% weight	KM 21	
10 OH HHC (10 hydroxyhexahydrocannabinol)	35.68	0.76	% weight	KM 21	

METALS

Analyte	Result*	Expanded uncertainty	Unit	Testing method	Notice
mercury	<0.001	-	mg/kg	SOP 70.4	S)
cadmium	<0.005	-	mg/kg	SOP 70.72	S)
lead	<0.05	-	mg/kg	SOP 70.72	S)
arsenic	<0.01	-	mg/kg	SOP 70.3	S)

* the sign "<" indicates that concentration is lower than this value, i.e. below the limit of quantitation (LOQ)

S) testing performed by subcontracting laboratory

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 ILAC G17:01(2021) and Kvalimetrie 11 (EURACHEM/CITAC 4). Uncertainty of sampling is not covered.

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:

Date of issue: 12.01.2024

Digitálne podepsal prof. Ing. Vladimír Kocourek,

CSc. Datum: 12.01.2024 16:49:07 +01'00'

Prof. Dr. Jana Hajšlová, head of the laboratory

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