Biosyyd.

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CERTIFICATE OF ANALYSIS

Scan QR Code for authenticity

Product Information

Product Name:	Hemp Drops 1000 mg CBD
Product Type:	Liquid
CAS #:	89958-21-4
Batch Number:	Batch 202
Manufacture Date:	11/06/2021

Sample Information

Sample Number:	Batch 202
Sample Received:	11/06/2021
Sample Condition:	Suitable
Start of Analysis:	11/06/2021
Report Created:	11/06/2021

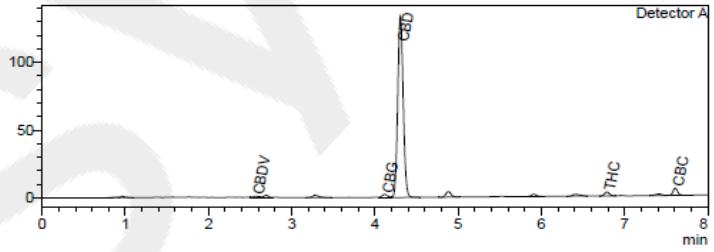
SUMMARY

TOTAL CBD* 10.205 **TOTAL THC*** 0.170

Quantitative Results

Compound Name	Concentration, w/w %
CBDV - Cannabidivarin	0.081
CBDA - Cannabidiolic acid	ND
CBGA - Cannabigerolic acid	ND
CBG - Cannabigerol	0.180
CBD - Cannabidiol	10.205
THCV - Tetrahydrocannabivarin	ND
CBN - Cannabinol	ND
CBC - Cannabichromene	0.339
THC - Δ8-Tetrahydrocannabinol	ND
THC - Δ9-Tetrahydrocannabinol	0.170
THCA - Δ9-Tetrahydrocannabiolic acid	ND

Chromatogram



Units and abbreviations: **w/w %** = weight percent, **ND** = the measured value was below the limit of quantification of 0.001 %

*For the calculations of the equivalence sums, the respective acid forms were multiplied by the factor of 0.877 and 0.878, respectively, to infer the equivalent amount of the neutral forms.

Instrumental and analytical conditions:

Sample preparation: 0.01 g (±0.00001) of homogenous sample was diluted with 1 mL of HPLC grade methanol. Diluted sample was mixed, vortexed and centrifuged. Then the mixture was diluted again to a final concentration of 0.1 mg/mL. Peak identification and quantification was performed by comparing retention times and UV absorption spectra of the samples with those of the standard solutions.
Equipment: Quantitative analysis was performed using Shimadzu Cannabis Analyzer for Potency - an integrated HPLC system with built-in sample cooler, degasser, autoinjector and UV detector. NexLeaf CBX for potency, 2.7 µm, 4.6 x 150 mm column coupled with NexLeaf CBXGuard column was eluted. Data was analyzed using Shimadzu LabSolutions software.

Date Issued:	**Approved by:**	**Authorized by:**
11/06/2021		
	Chief Analyst	Chief Scientific Officer

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TERPENES

Analyzed by GC/FID

Compound Name	Conc., w/w %	Quantity, mg/g	Relative Concentration
Alpha-Pinene	0.262	2.62	0.262
Camphene	ND	ND	0.000
Beta-Myrcene	0.242	2.42	0.242
Beta-Pinene	0.039	0.39	0.039
Delta-3-Carene	ND	ND	0.000
Alpha- Terpinene	ND	ND	0.000
Ocimene 1	ND	ND	0.000
D-Limonene	0.571	5.71	0.571
p -Cymene	ND	ND	0.000
Ocimene 2	ND	ND	0.000
Eucalyptol	ND	ND	0.000
y-Terpinene	0.007	0.07	0.007
Terpinolene	ND	ND	0.000
Linalool	0.093	0.93	0.093
Geraniol	ND	ND	0.000
Beta- Caryophyllene	0.338	3.38	0.338
Alpha-Humulene	0.001	0.01	0.001
Guaiol	ND	ND	0.000

Units and abbreviations: **w/w %** = weight percent, **ND** = the measured value was below the limit of quantification of 0.001 %

Instrumental and analytical conditions:

Sample preparation: 0.05 g (±0.00001) of homogenous sample was weighted in GC 20 ml vial. Equipment: Quantitative analysis was performed using Shimadzu GC system which consists of HS sampler, gas chromatograph and FID detector. Capillary column used for analysis - Rxi-624Sil Ms, 30 m x 0.32 mmID x 1.8 µm df. Hydrogen was used as carrier gas. Oven temperature range was set within 100 - 230 °C. Data was analyzed using Shimadzu LabSolutions software.

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RESIDUAL SOLVENTS

Element Name	LOQ, PPM	Limit, PPM	Results of Testing	Status
Acetone	50	500	<LOQ	Pass
Butyl acetate	50	500	<LOQ	Pass
1-Butanol	50	500	<LOQ	Pass
2-Butanol	50	500	<LOQ	Pass
Ethanol	50	500	<LOQ	Pass
Ethyl acetate	50	500	<LOQ	Pass
Diethyl ether	50	500	<LOQ	Pass
n-Heptane	50	500	<LOQ	Pass
Isobutanol	50	500	<LOQ	Pass
1-Propanol	50	500	<LOQ	Pass
2-Propanol	50	500	<LOQ	Pass
Propyl acetate	50	500	<LOQ	Pass
n-Pentane	50	500	<LOQ	Pass
1-Pentanol	50	500	<LOQ	Pass

Units and abbreviations: **LOQ** = limit of quantification, **PPM** = parts per million

Instrumental and analytical conditions:

Sample preparation: 0.05 g (±0.00001) of homogenous sample was weighted in GC 20 ml vial.
Equipment: Quantitative analysis was performed using Shimadzu GC system which consists of HS sampler, gas chromatograph and FID detector. Capillary column used for analysis - Rxi-624Sil Ms, 30 m x 0.32 mmID x 1.8 µm df. Hydrogen was used as carrier gas. Oven temperature range was set within 35 - 110 °C. Data was analyzed using Shimadzu LabSolutions software.

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HEAVY METALS

Parameter	Method	LOQ	Limit	Results of Testing	Status
Cadmium (Cd) mg/kg	Ph. Eur. 2.4.27	0.001	2	<0.001	Pass
Lead (Pb) mg/kg	Ph. Eur. 2.4.27	0.05	2	<0.05	Pass
Arsenic (As) mg/kg	Ph. Eur. 2.4.27	0.01	2	<0.01	Pass
Mercury (Hg) mg/kg	Ph. Eur. 2.4.27	0.0006	10	<0.0006	Pass

Units and abbreviations: **LOQ** = limit of quantification.

MYCOTOXINS

Parameter	Method	LOQ	Limit	Results of Testing	Status
Aflatoxin B1 µg/kg	Ph. Eur. 2.8.18	0.1	20	<0.1	Pass
Aflatoxin (sum of B1 + B2 + G1 + G2) µg/kg	Ph. Eur. 2.8.18	1.4	20	<1.4	Pass
Ochratoxin A µg/kg	VA45119, Ph. Eur. 2.8.22; Ph. Eur. 2.2.29	0.25	20	<0.25	Pass

Units and abbreviations: **LOQ** = limit of quantification.

MICROBIALS

Parameter	Method	Limit	Results of Testing	Status
Yeasts CFU/g	LST ISO 21527-2:2008	<10	<10	Pass
Moulds CFU/g	LST ISO 21527-2:2008	<10	<10	Pass
Salmonella spp.	LST EN ISO 6579-1:2017	ND	ND	Pass
E. Coli CFU/g	LST ISO 16649-2:2002	ND	ND	Pass

Units and abbreviations: **CFU** = Colony-forming unit, **ND** = not detected

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11/06/2021	AnC	Dr. SPs
	Chief Analyst	Chief Scientific Officer

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PESTICIDES

Name	Method	Results of Testing	Status
Full list below	LST EN 15662:2018	All below limit	Pass

ORGANOCHLORINE PESTICIDES
Aldrin; HCH alpha isomer; Chlordane, cis; HCH beta isomer; Chlordane, trans; HCH delta isomer; Chlorfenson; Heptachlor; Chlorothalonil; Heptachlor epoxide, cis; DDD-o,p'; Heptachlor epoxide, trans; DDD-p,p'; Hexachlorobenzene (HCB); DDE-o,p'; Isodrin; DDE-p,p'; Lindane (HCH gamma isomer); DDT-o,p'; Methoxychlor; DDT-p,p'; Metolachlor; Dicofol; Mirex; Dieldrin; Oxychlordane (Octachlorepoxide); Endosulfan alpha isomer; Pentachloroaniline; Endosulfan beta isomer; Quintozene; Endosulfan sulphate; Tecnazene; Endrin; Vinclozolin; Fenson.

ORGANOPHOSPHORUS PESTICIDES
Azinphos-ethyl; Methacrifos; Azinphos-methyl; Methamidophos; Bromophos; Methidathion; Bromophos-ethyl; Mevinphos; Carbophenothion; Omethoate; Chlorfenvinphos; Paraoxon-methyl; Chlorpyrifos; Parathion; Chlorpyrifos-methyl; Parathion-methyl; Diazinon; Phenthoate; Dichlofenthion; Phorate; Dichlorvos (DDVP); Phosalone; Ethion; Phosmet; Etrimfos; Phosphamidon (sum of isomers); Fenchlorphos; Pirimiphos-ethyl; Fenitrothion; Pirimiphos-methyl; Fensulfothion; Profenofos; Fenthion; Propetamphos; Fonofos; Pyrazophos; Heptenophos; Pyridaphenthion; Isofenphos; Quinalphos; Malaoxon; Sulfotep; Malathion; Thiometon; Mecarbam.

PYRETHROIDS
Bifenthrin; Fluvalinate-tau; Cypermethrin (sum of isomers); Permethrin (sum of isomers); Fenvalerate (sum of isomers); Tetramethrin (sum of isomers).

OTHER PESTICIDES
Captan; Procymidone; Dichlofluanid; Propachlor; Folpet; Propiconazole (sum of isomers); Metalaxyl and Metalaxyl-M (sum of isomers); Propyzamide; Metribuzin; Simazine; Myclobutanile; Terbuthylazine; Nuarimol; Tetrasul; Penconazole; Trifluralin; Pirimicarb.

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