

## CERTIFICATE OF ANALYSIS

### Product Information

Product Name: Hemp Drops 400 mg  
CBD + 100 mg CBN  
Product Type: Liquid  
CAS #: 89958-21-4  
Batch Number: C20210705-1  
Manufacture Date: 5/7/2021



### Sample Information

Sample Number: C20210705-1  
Sample Received: 5/7/2021  
Sample Condition: Suitable  
Start of Analysis: 5/7/2021  
Report Created: 5/7/2021

### SUMMARY

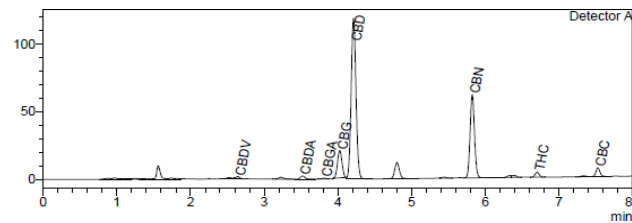
**TOTAL CBD\*** 4.207

**TOTAL THC\*** 0.105

### Quantitative Results

Compound Name	Concentration, w/w %
<b>CBDV</b> - Cannabidivarin	0.049
<b>CBDA</b> - Cannabidiolic acid	0.070
<b>CBGA</b> - Cannabigerolic acid	0.013
<b>CBG</b> - Cannabigerol	0.668
<b>CBD</b> - Cannabidiol	4.146
<b>THCV</b> - Tetrahydrocannabivarin	ND
<b>CBN</b> - Cannabinol	1.114
<b>CBC</b> - Cannabichromene	0.195
<b>THC</b> - Δ8-Tetrahydrocannabinol	ND
<b>THC</b> - Δ9-Tetrahydrocannabinol	0.105
<b>THCA</b> - Δ9-Tetrahydrocannabinolic 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 ( $\pm 0.00001$ ) 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  $\mu\text{m}$ , 4.6 x 150 mm column coupled with NexLeaf CBXGuard column was eluted. Data was analyzed using Shimadzu LabSolutions software.

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### TERPENES

Analyzed by GC/FID

Compound Name	Conc., w/w %	Quantity, mg/g	Relative Concentration
Alpha-Pinene	0.302	3.02	0.302
Camphene	ND	ND	0.000
Beta-Myrcene	0.254	2.54	0.254
Beta-Pinene	0.041	0.41	0.041
Delta-3-Carene	ND	ND	0.000
Alpha-Terpinene	ND	ND	0.000
Ocimene 1	ND	ND	0.000
D-Limonene	0.502	5.02	0.502
p-Cymene	ND	ND	0.000
Ocimene 2	ND	ND	0.000
Eucalyptol	ND	ND	0.000
γ-Terpinene	ND	ND	0.000
Terpinolene	ND	ND	0.000
Linalool	0.097	0.97	0.097
Geraniol	ND	ND	0.000
Beta-Caryophyllene	0.232	2.32	0.232
Alpha-Humulene	ND	ND	0.000
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 ( $\pm 0.00001$ ) 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  $\mu$ m 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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### 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 (Octachlorepoxyde); 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; Myclobutanil; Terbutylazine; Nuarimol; Tetrasul; Penconazole; Trifluralin; Pirimicarb.

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