

CERTIFICATE OF ANALYSIS

Product Information

Product Name: Hemp Drops 500 mg
CBD DC
Product Type: Liquid
CAS #: 89958-21-4
Batch Number: Batch 291
Manufacture Date: 11/11/2021



Sample Information

Sample Number: Batch 291
Sample Received: 11/11/2021
Sample Condition: Suitable
Start of Analysis: 11/11/2021
Report Created: 11/11/2021

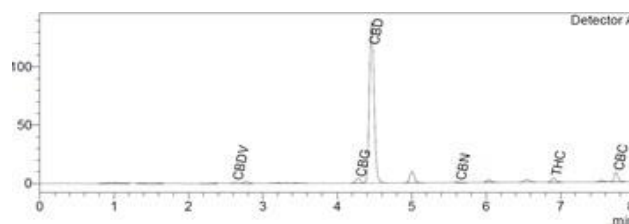
SUMMARY

TOTAL CBD* 5.476 **TOTAL THC*** 0.122

Quantitative Results

| Compound Name | Concentration, w/w % |
|--|----------------------|
| CBDV - Cannabidivarin | 0.068 |
| CBDA - Cannabidiolic acid | ND |
| CBGA - Cannabigerolic acid | ND |
| CBG - Cannabigerol | 0.167 |
| CBD - Cannabidiol | 5.476 |
| THCV - Tetrahydrocannabivarin | ND |
| CBN - Cannabinol | 0.034 |
| CBC - Cannabichromene | 0.276 |
| THC - Δ8-Tetrahydrocannabinol | ND |
| THC - Δ9-Tetrahydrocannabinol | 0.122 |
| THCA - 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 (± 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.

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TERPENES

Analyzed by GC/FID

| Compound Name | Conc., w/w % | Quantity, mg/g | Relative Concentration |
|--------------------|--------------|----------------|------------------------|
| Alpha-Pinene | 0.312 | 3.12 | 0.312 |
| Camphene | ND | ND | 0.000 |
| Beta-Myrcene | 0.261 | 2.61 | 0.261 |
| Beta-Pinene | 0.052 | 0.52 | 0.052 |
| Delta-3-Carene | ND | ND | 0.000 |
| Alpha-Terpinene | ND | ND | 0.000 |
| Ocimene 1 | ND | ND | 0.000 |
| D-Limonene | 0.546 | 5.46 | 0.546 |
| 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 | 0.099 | 0.99 | 0.099 |
| Geraniol | ND | ND | 0.000 |
| Beta-Caryophyllene | 0.314 | 3.14 | 0.314 |
| 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 (± 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 μ 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; Dicofof; 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; Paraaxon-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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