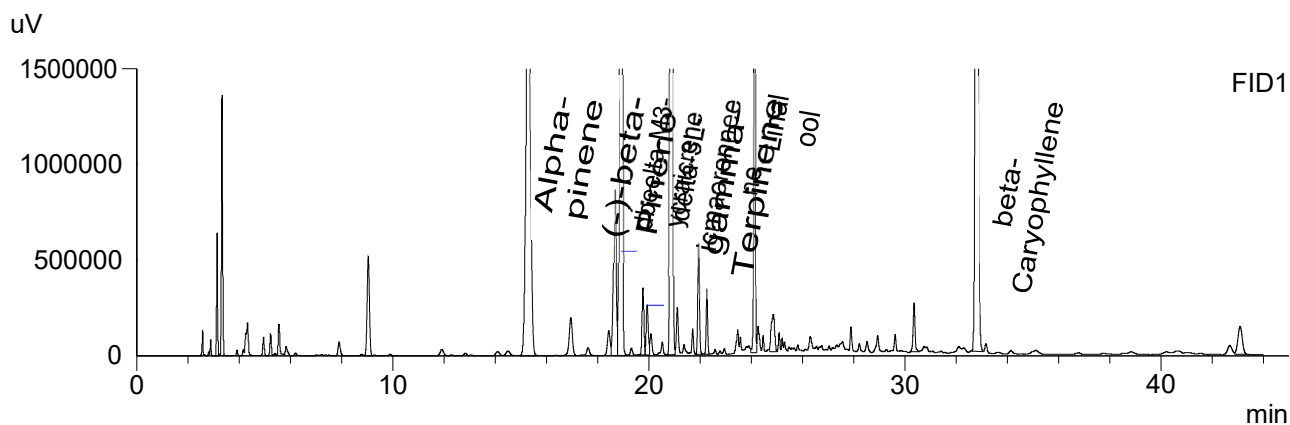


## CERTIFICATE OF ANALYSIS

### Chromatogram



### Quantitative Results

FID1

### Sample information

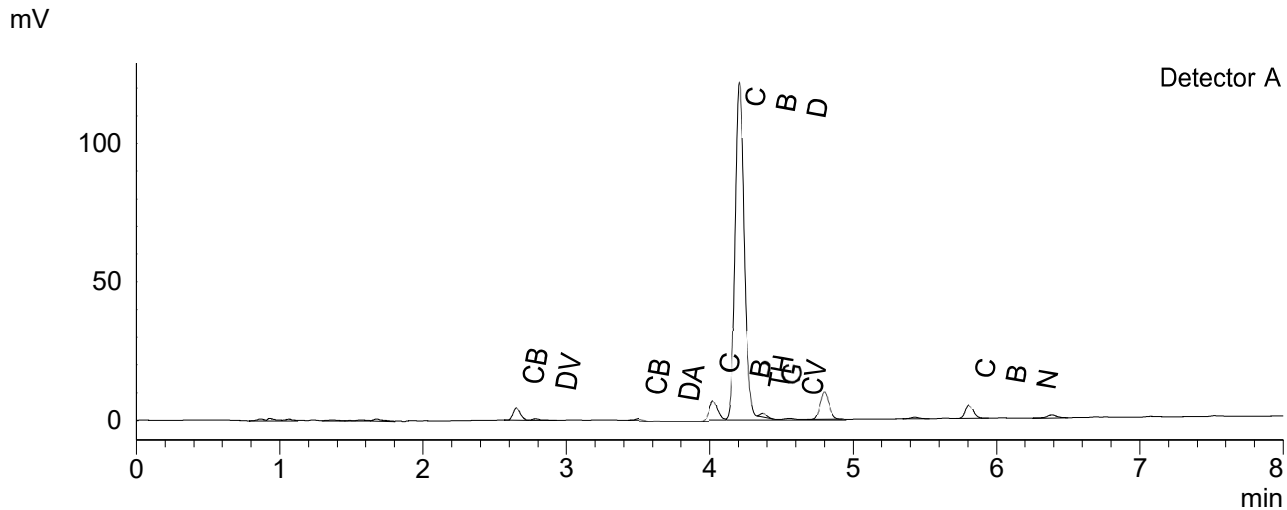
Batch number:

388

Compound Name	Concentration, %
Alpha-pinene	0.286
Camphene	--
(-)-beta-Pinene	0.051
beta-Myricene	0.303
delta-3-carene	0.013
alpha-Terpinene	--
Limonene	0.544
p-Cymene	--
Ocimene	--
gamma-Terpinene	0.007
Terpinolene	--
Linalool	0.111
(-)-Isopulegol	--
Geraniol	--
beta-Caryophyllene	0.372
alpha-Humulene	--
Nerolidol	--
(-)-Guaiol	--
(-)-alpha-Bisabolol	--

## CERTIFICATE OF ANALYSIS

### Chromatogram



### Quantitative Results

Detector A

Compound Name	Concentration, %
CBDV	0.139
CBDA	0.016
CBGA	--
CBG	0.318
CBD	5.449
THCV	0.039
CBN	0.102
THC	--
CBC	--
THCA-A	--
CBL	--
CBDVA	--

### Sample information

**Sample name:** Hemp Drops 500mg CBD DC  
**Batch number:** Batch 388  
**Sample number:** M 1207  
**Date of Analysis:** 2022 02 23

### Summary

<b>Total CBD</b>	<b>5.46</b>	<b>%</b>
<b>Total CBD</b>	<b>54.63</b>	<b>mg/g</b>

### Instrumental and analytical conditions:

Sample preparation: 0.1 g of sample material was dissolved in 10 mL of HPLC grade methanol. The solution was vortexed and centrifuged. Then the solution was diluted to a final concentration. Quantification of cannabinoids was performed using standard calibration curve method. 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 by using a mixture of mobile phase A (0.085 % phosphoric acid in water) and mobile phase B (0.085% phosphoric acid in Acetonitrile) with a flow rate of 1.6 mL/min at 35°C. Sample injection volume was set to 5 µL. Gradient program used - 70 % B for 3 min, 70-85 % B over 4 min, 85-95 % B over 0.01 min; 95% B for 0.99 min; 95-70% B over 0.01 min; 70% B for 1.99min. Data was analyzed using Shimadzu LabSolutions software.

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## CERTIFICATE OF ANALYSIS

### 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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# CERTIFICATE OF ANALYSIS

## 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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## CERTIFICATE OF ANALYSIS

### 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; Pentachloroanilin; Endosulfan beta isomer; Quintozene; Endosulfan sulphate; Tecnazene; Endrin; Vindozolin; Fenson.

#### ORGANOPHOSPHORUS PESTICIDES

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

#### PYRETHROIDS

Bifenthrin; Flualinate-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); Propyzamid; Metribuzin; Simazine; Myclobutanil; Terbutylazine; Nuarimol; Tetrasul; Penconazole; Trifluralin; Pirimicarb.

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