



Certificate of Analysis

Customer Name: Canopy Growth, USA LLC
 Address: 35715 US 40, Suite D-102
 Evergreen, CO 80439
 Sample Name: CBD SOFTGEL (25MG)
 Product Code: N/A
 Batch/Lot#: 000000139 MFG. DATE: 9/10/2020
 MQL Accession #: 200923-0109

Tested By: Micro Quality Labs, Inc.
 Address: 3125 N. Damon Way, Burbank, CA 91505
 P: (818)845-0070 F: (818)845-0030
 PO#: N/A
 Sample Description: BULK
 Rush: N/A
 Received Date: 09/23/20

Pesticide Test Results 09/28/20

Pesticide, Fungicide and plant growth regular analysis utilizing Gas Chromatography – Mass Spectrometry. MQLTM-0343 (USP<561>Modified) By GC-MS

	ppm	LOD µg/g	LOQ µg/g
Acephate	< 0.1	0.1 ppm	0.1 ppm
Alachlor	< 0.05	0.05 ppm	0.05 ppm
Aldrin and dieldrin (sum of)	< 0.05	0.05 ppm	0.05 ppm
Azinphos-ethyl	< 0.1	0.1 ppm	0.1 ppm
Azinphos-methyl	< 1	1 ppm	1 ppm
Bromide, inorganic	< 125	125 ppm	125 ppm
Bromophos-ethyl	< 0.05	0.05 ppm	0.05 ppm
Bromophos-methyl	< 0.05	0.05 ppm	0.05 ppm
Bromopropylate	< 3	3 ppm	3 ppm
Chlordane (sum of)	< 0.05	0.05 ppm	0.05 ppm
Clofenvinphos	< 0.5	0.5 ppm	0.5 ppm
Chlorpyrifos-ethyl	< 0.2	0.2 ppm	0.2 ppm
Chlorpyrifos-methyl	< 0.1	0.1 ppm	0.1 ppm
Chlorthal-dimethyl	< 0.01	0.01 ppm	0.01 ppm
Cyfluthrin (sum of)	< 0.1	0.1 ppm	0.1 ppm
λ-Cyhalothrin	< 1	1 ppm	1 ppm
Cypermethrin and isomers (sum of)	< 1	1 ppm	1 ppm
DDT (sum of)	< 1	1 ppm	1 ppm
Deltamethrin	< 0.5	0.5 ppm	0.5 ppm
Diazinon	< 0.5	0.5 ppm	0.5 ppm
Dichlofluanid	< 0.1	0.1 ppm	0.1 ppm
Dichlorvos	< 1	1 ppm	1 ppm
Dicofol	< 0.5	0.5 ppm	0.5 ppm
Dimethoate and omethoate (sum of)	< 0.1	0.1 ppm	0.1 ppm
Dithiocarbamates (expressed as CS ₂)	< 2	2 ppm	2 ppm
Endosulfan (sum of)	< 3	3 ppm	3 ppm
Endrin	< 0.05	0.05 ppm	0.05 ppm
Ethion	< 2	2 ppm	2 ppm
Etrimphos	< 0.05	0.05 ppm	0.05 ppm
Fenclorophos (sum of)	< 0.1	0.1 ppm	0.1 ppm
Fenitrothion	< 0.5	0.5 ppm	0.5 ppm
Fenpropathrin	< 0.03	0.03 ppm	0.03 ppm
Fensulfothion (sum of)	< 0.05	0.05 ppm	0.05 ppm
Fenthion (sum of)	< 0.05	0.05 ppm	0.05 ppm
Fenvalerate	< 1.5	1.5 ppm	1.5 ppm
Flucythrinate	< 0.05	0.05 ppm	0.05 ppm
t-Fluvalinate	< 0.05	0.05 ppm	0.05 ppm
Fonophos	< 0.05	0.05 ppm	0.05 ppm
Heptachlor (sum of)	< 0.05	0.05 ppm	0.05 ppm
Hexachlorbenzene	< 0.1	0.1 ppm	0.1 ppm
Hexachlorocyclohexane (sum of)	< 0.3	0.3 ppm	0.3 ppm
Lindan (γ-hexachlorocyclohexane)	< 0.6	0.6 ppm	0.6 ppm
Malathion and malaoxon (sum of)	< 1	1 ppm	1 ppm
Mecarbam	< 0.05	0.05 ppm	0.05 ppm
Methacriphos	< 0.05	0.05 ppm	0.05 ppm
Methamidophos	< 0.05	0.05 ppm	0.05 ppm
Methidathion	< 0.2	0.2 ppm	0.2 ppm
Methoxychlor	< 0.05	0.05 ppm	0.05 ppm
Mirex	< 0.01	0.01 ppm	0.01 ppm

Pesticide Test Results 09/28/20

Pesticide, Fungicide and plant growth regular analysis utilizing Gas Chromatography – Mass Spectrometry. MQLTM-0343 (USP<561>Modified) By GC-MS

	ppm	LOD µg/g	LOQ µg/g
Monocrotophos	< 0.1	0.1 ppm	0.1 ppm
Parathion-ethyl and paraoxon-ethyl (sum of)	< 0.5	0.5 ppm	0.5 ppm
Parathion-methyl and paraoxon-methyl (sum of)	< 0.2	0.2 ppm	0.2 ppm
Pendimethalin	< 0.1	0.1 ppm	0.1 ppm
Pentachloranisole	< 0.01	0.01 ppm	0.01 ppm
Permethrin and isomers (sum of)	< 1	1 ppm	1 ppm
Phosalone	< 0.1	0.1 ppm	0.1 ppm
Phosmet	< 0.05	0.05 ppm	0.05 ppm
Piperonyl butoxide	< 3	3 ppm	3 ppm
Pirimiphos-ethyl	< 0.05	0.05 ppm	0.05 ppm
Pirimiphos-methyl (sum of)	< 4	4 ppm	4 ppm
Procymidone	< 0.1	0.1 ppm	0.1 ppm
Profenophos	< 0.1	0.1 ppm	0.1 ppm
Prothiophos	< 0.05	0.05 ppm	0.05 ppm
Pyrethrum (sum of)	< 3	3 ppm	3 ppm
Quinalphos	< 0.05	0.05 ppm	0.05 ppm
Quintozene (sum of)	< 1	1 ppm	1 ppm
S-421	< 0.02	0.02 ppm	0.02 ppm
Tecnazene	< 0.05	0.05 ppm	0.05 ppm
Tetradifon	< 0.3	0.3 ppm	0.3 ppm
Vinclozolin	< 0.4	0.4 ppm	0.4 ppm

Heavy Metal Test Results 09/28/20

Heavy metal analysis utilizing Inductively Coupled Mass Spectrometry (ICP-MS) MQLTM-0278 by ICP-MS.

	ppm	LOD µg/g	LOQ µg/g
Lead	0.019 ppm	0.2 ppb	3 ppb
Arsenic	0.027 ppm	0.5 ppb	3 ppb
Cadmium	ND (NMT 0.003 ppm)	0.1 ppb	3 ppb
Mercury	0.010 ppm	0.07 ppb	1 ppb

Sample Certification

California Code of Regulations Title 16 Effect Date January 16, 2019

Authority: Section 26013, Business and Professions Code.

Reference: Sections 26100, 26104 and 26110, Business and Professions Code.



Prepared By:

Diana Zavala/Document Control 10/21/20

Reviewed By:

Esme Arellano/QA Assistant 10/21/20

Scan to verify at microqualitylabs.com

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Moisture Content 09/30/20

Analysis performed per USP 42 <921> method

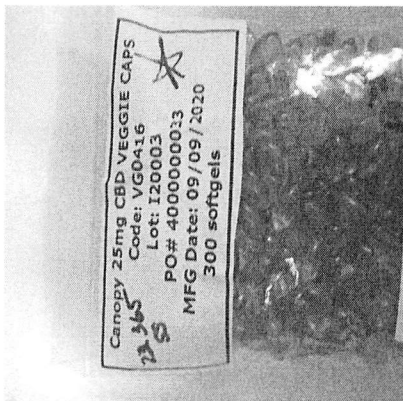
	Specifications	Results
Moisture	<10%	3%

Cannabinoid Test Results 04/01/20

Cannabinoid analysis utilizing Ultra Performance Liquid Chromatography, MQLTM-1270 by UPLC

	mg/serv	LOD µg/g	LOQ µg/g
CBDVA		0.5 ppm	1 ppm
CBDV		0.5 ppm	1 ppm
CBD	26	0.5 ppm	1 ppm
CBDA		0.5 ppm	1 ppm
CBGA		0.5 ppm	1 ppm
CBG		0.5 ppm	1 ppm
THCV		0.5 ppm	1 ppm
THCVA		0.5 ppm	1 ppm
CBN		0.5 ppm	1 ppm
CBNA		0.5 ppm	1 ppm
Δ9 - THC		0.5 ppm	1 ppm
Δ8 - THC		0.5 ppm	1 ppm
CBL		0.5 ppm	1 ppm
CBC		0.5 ppm	1 ppm
THCA-A		0.5 ppm	1 ppm
CBCA		0.5 ppm	1 ppm
Sum of Cannabinoids		0.5 ppm	1 ppm
CBD	26 mg/sg		
Total as Δ-9-THC	THC Free (NMT 0.3%)		

Batch Photo



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Prepared By:
 Diana Zavala/Document Control OCT 21 2020
 10/21/20

Reviewed By:
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Residual Solvents Test Results 09/30/20

Residual Solvent analysis utilizing Gas Chromatography - Mass Spectrometry (GC-MS), USP<42> Modified [467] By GC-FID

Class I:	USP Limit	Results
1,1 Dichloroethene	8 ppm	Not Detected
1,1,1 Trichloroethane	1500 ppm	Not Detected
Carbon Tetrachloride	4 ppm	Not Detected
Benzene	2 ppm	Not Detected
1,2-Dichloroethane	5 ppm	Not Detected
<u>Class IIA:</u>		
Methanol	3000 ppm	Not Detected
Acetonitrile	410 ppm	Not Detected
Dichloromethane	600 ppm	Not Detected
1,2-dichloroethene	1870 ppm	Not Detected
Cis-1,2-dichloroethene	900 ppm	Not Detected
Tetrahydrofuran	720 ppm	Not Detected
Cyclohexane	3880 ppm	Not Detected
Methylcyclohexane	1180 ppm	Not Detected
Toluene	380 ppm	Not Detected
1,4-dioxane	890 ppm	Not Detected
Chlorobenzene	360 ppm	Not Detected
Ethylbenzene	1605.8 ppm	Not Detected
m/p-Xylene	368.9 ppm	Not Detected
o-Xylene	195.3 ppm	Not Detected
Cumene	70 ppm	Not Detected
<u>Class IIB:</u>		
Hexane	290 ppm	Not Detected
1,2 Dimethoxyethane	100 ppm	Not Detected
trichloroethylene	80 ppm	Not Detected
Chloroform	60 ppm	Not Detected
2-Hexanone	50 ppm	Not Detected
Nitromethane	50 ppm	Not Detected
Tetralin	200 ppm	Not Detected
Pyridine	100 ppm	Not Detected
<u>Class III:</u>		
Ethanol	800 ppm	Not Detected
Acetone	62 ppm	Not Detected
IPA	63 ppm	Not Detected
Methyl Acetate	62 ppm	Not Detected
Tert Butyl Methyl ether	62 ppm	Not Detected
Tributylamine	65 ppm	Not Detected
Acetic Acid	506 ppm	Not Detected


Residual Solvents Test Results Cont. 09/30/20


Residual Solvent analysis utilizing Gas Chromatography - Flame Ionization Detection (GC-FID), USP<42> Modified [467] By GC-FID

Class III:	USP Limit	Results
N-Pentane	5000 ppm	Meets USP limit
Ethanol	5000 ppm	Not Detected
Diethyl Ether	5000 ppm	Not Detected
Acetone	5000 ppm	Not Detected
IPA	5000 ppm	Not Detected
Ethyl Formate	5000 ppm	Not Detected
Methyl Acetate	5000 ppm	Not Detected
Methyl t-Butyl Ether	5000 ppm	Not Detected
n-Propanol	5000 ppm	Not Detected
2-Butanol	5000 ppm	Not Detected
Ethyl Acetate	5000 ppm	Not Detected
2-Butanone	5000 ppm	Not Detected
Isobutanol	5000 ppm	Not Detected
Isopropyl Acetate	5000 ppm	Not Detected
n-Heptane	5000 ppm	Not Detected
1-Butanol	5000 ppm	Not Detected
Propyl Acetate	5000 ppm	Not Detected
4-Methyl 2-Pentanone	5000 ppm	Not Detected
3-Methyl 1-Butanol	5000 ppm	Not Detected
Isobutyl Acetate	5000 ppm	Not Detected
1-Pentanol	5000 ppm	Not Detected
Butyl Acetate	5000 ppm	Not Detected
N,N-Dimethyl Formamide	5000 ppm	Not Detected
Anisole	5000 ppm	Not Detected

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 Diana Zavala/Document Control 10/21/20

Reviewed By:  OCT 21 2020
 Esme Arellano/QA Assistant 10/21/20

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Acid Value (Free Fatty Acid) 10/01/20

Analysis performed per USP 42 <401> method

Specifications	Results
NMT 0.1 mg KOH/g	0.1 mgKOH/g

Anisidine Value 10/02/20

Analysis performed per USP 42 <401> method

Specifications	Results
< 20 mEq/Kg	5.6 mEq/Kg

Physical Tests 10/02/20

Analysis performed per MQLTM-0024 method

	Specifications	Results
Appearance	N/A	Passes
Size/Shape	N/A	Passes

Rupture Test 10/02/20

Analysis performed per MQLTM-0359 method

Specifications	Results
< 15 minutes	7 min 9 sec

Uniformity By Weight Variation 10/05/20

Analysis performed per USP 42 <401> method

Specifications	Results
N/A	NMT 15.0

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