



Steep Hill California

1005 PARKER STREET, BERKELEY, CA 94710 LICENSE #: C8-0000082-LIC

CERTIFICATE OF ANALYSIS

Sample Name: 1000mg CBD Oil Peppermint
 Steep Hill ID: BK82906
 Batch ID: Laguna Woods CBD
 Sample Type: Oil
 Date Received: 3/3/2020
 Date Reported: 3/8/2020
 Pkg. Volume: 60 mL
 # of Servings: 120
 Density: 0.934 g/mL

Customer: Lux Global Consulting

Cannabinoids	Residual Pesticides	Microbial Impurities	Mycotoxins	Heavy Metals	Water Activity	Residual Solvents	Foreign Material
Tested	Tested	Tested	NT	Tested	NT	Tested	NT



Total THC
 Not Detected
 Not Detected
 Not Detected
 Not Detected

Total CBD
 1.41 %
 14.1 mg/g
 790 mg/pkg
 6.59 mg/serv

Total Cannabinoids
 1.41 %
 14.1 mg/g
 790 mg/pkg
 6.59 mg/serv

Leah Shaffer
 Chief Science Officer
 Date: 3/8/2020

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CERTIFICATE OF ANALYSIS

Cannabinoid Results

3/7/2020

Standard potency analysis utilizing High Performance Liquid Chromatography with Photo Diode Array Detector (HPLC-PDA; SOP-068) - **THC Limits: 1000 mg/pkg**

Analyte	%	mg/g	mg/pkg	mg/serv	LOD mg/g	LOQ mg/g
CBD	1.41	14.1	790	6.59	0.0111	0.0321
CBDA	ND	ND	ND	ND	0.00366	0.0321
CBG	ND	ND	ND	ND	0.00475	0.0321
CBN	ND	ND	ND	ND	0.00122	0.0321
THC	ND	ND	ND	ND	0.00495	0.0321
THCA	ND	ND	ND	ND	0.00507	0.0321
CBC	NT	NT	NT	NT	NT	NT
CBCA	NT	NT	NT	NT	NT	NT
CBDV	NT	NT	NT	NT	NT	NT
CBDVA	NT	NT	NT	NT	NT	NT
CBGA	NT	NT	NT	NT	NT	NT
CBL	NT	NT	NT	NT	NT	NT
CBLA	NT	NT	NT	NT	NT	NT
CBNA	NT	NT	NT	NT	NT	NT
delta-8-THC	NT	NT	NT	NT	NT	NT
THCV	NT	NT	NT	NT	NT	NT
THCVA	NT	NT	NT	NT	NT	NT
Total	1.41	14.1	790	6.59		

Terpenoid Results

NT

Standard terpene analysis utilizing Gas Chromatography – Mass Spectrometry (GC-MS; SOP-069)

Analyte	%	mg/g	mg/mL	LOD mg/g	LOQ mg/g	Analyte	%	mg/g	mg/mL	LOD mg/g	LOQ mg/g
α-Bisabolol	NT	NT	NT	NT	NT	Linalool	NT	NT	NT	NT	NT
endo-Borneol	NT	NT	NT	NT	NT	Menthol	NT	NT	NT	NT	NT
Camphene	NT	NT	NT	NT	NT	β-Myrcene	NT	NT	NT	NT	NT
Camphor	NT	NT	NT	NT	NT	Nerol	NT	NT	NT	NT	NT
3-Carene	NT	NT	NT	NT	NT	cis-Nerolidol	NT	NT	NT	NT	NT
Caryophyllene Oxide	NT	NT	NT	NT	NT	trans-Nerolidol	NT	NT	NT	NT	NT
β-Caryophyllene	NT	NT	NT	NT	NT	cis-β-Ocimene	NT	NT	NT	NT	NT
α-Cedrene	NT	NT	NT	NT	NT	trans-β-Ocimene	NT	NT	NT	NT	NT
Cedrol	NT	NT	NT	NT	NT	α-Phellandrene	NT	NT	NT	NT	NT
Citronellol	NT	NT	NT	NT	NT	Phytol 1	NT	NT	NT	NT	NT
Eucalyptol	NT	NT	NT	NT	NT	Phytol 2	NT	NT	NT	NT	NT
α-Farnesene	NT	NT	NT	NT	NT	α-Pinene	NT	NT	NT	NT	NT
β-Farnesene	NT	NT	NT	NT	NT	β-Pinene	NT	NT	NT	NT	NT
Fenchol	NT	NT	NT	NT	NT	Pulegone	NT	NT	NT	NT	NT
Fenchone	NT	NT	NT	NT	NT	Sabinene	NT	NT	NT	NT	NT
Geraniol	NT	NT	NT	NT	NT	Sabinene Hydrate	NT	NT	NT	NT	NT
Geranyl Acetate	NT	NT	NT	NT	NT	α-Terpinene	NT	NT	NT	NT	NT
Guaiol	NT	NT	NT	NT	NT	γ-Terpinene	NT	NT	NT	NT	NT
α-Humulene	NT	NT	NT	NT	NT	α-Terpeneol	NT	NT	NT	NT	NT
Isoborneol	NT	NT	NT	NT	NT	Terpinolene	NT	NT	NT	NT	NT
Isopulegol	NT	NT	NT	NT	NT	Valencene	NT	NT	NT	NT	NT
Limonene	NT	NT	NT	NT	NT	Total	NT	NT	NT	NT	NT

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Residual Pesticides Results

3/8/2020

Residual pesticide analysis utilizing Liquid and Gas Chromatography – Mass Spectrometry (LC-MSMS + GC-MSMS; SOP-070 + SOP-080) - Limit units: µg/g

Analyte	µg/g	Limit	LOD µg/g	LOQ µg/g	Analyte	µg/g	Limit	LOD µg/g	LOQ µg/g
Abamectin	ND	0.3	0.0122	0.0406	Fludioxonil	ND	30	0.0218	0.0725
Acephate	ND	5	0.00457	0.0152	Hexythiazox	ND	2	0.00500	0.0166
Acequinocyl	ND	4	0.0105	0.0349	Imazalil	ND	ND	0.00554	0.0184
Acetamiprid	ND	5	0.00457	0.0152	Imidacloprid	ND	3	0.00500	0.0166
Aldicarb	ND	ND	0.00548	0.0183	Kresoxim-methyl	ND	1	0.00500	0.0166
Azoxystrobin	ND	40	0.00462	0.0154	Malathion	ND	5	0.00505	0.0168
Bifenazate	ND	5	0.00457	0.0152	Metalaxyl	ND	15	0.00511	0.0170
Bifenthrin	ND	0.5	0.0220	0.0732	Methiocarb	ND	ND	0.00548	0.0183
Boscalid	ND	10	0.00462	0.0154	Methomyl	ND	0.1	0.00505	0.0168
Captan	ND	5	0.0454	0.151	Methyl Parathion	ND	ND	0.0274	0.0911
Carbaryl	ND	0.5	0.00457	0.0152	Mevinphos	ND	ND	0.00446	0.0149
Carbofuran	ND	ND	0.00548	0.0183	Myclobutanil	ND	9	0.00505	0.0168
Chlorantraniliprole	ND	40	0.00468	0.0156	Naled	ND	0.5	0.00500	0.0166
Chlordane	ND	ND	0.00989	0.0329	Oxamyl	ND	0.2	0.00511	0.0170
Chlorfenapyr	ND	ND	0.0272	0.0906	Paclobutrazol	ND	ND	0.0262	0.0872
Chlorpyrifos	ND	ND	0.00554	0.0184	Pentachloronitrobenzene	ND	0.2	0.0118	0.0394
Clofentezine	ND	0.5	0.00457	0.0152	Permethrin	ND	20	0.0442	0.147
Coumaphos	ND	ND	0.00548	0.0183	Phosmet	ND	0.2	0.00500	0.0166
Cyfluthrin	ND	1	0.0452	0.151	Piperonyl Butoxide	ND	8	0.00505	0.0168
Cypermethrin	ND	1	0.0452	0.151	Prallethrin	ND	0.4	0.0238	0.0791
Daminozide	ND	ND	0.0261	0.0870	Propiconazole	ND	20	0.0241	0.0804
Diazinon	ND	0.2	0.00462	0.0154	Propoxur	ND	ND	0.00548	0.0183
Dichlorvos	ND	ND	0.0126	0.0421	Pyrethrins	ND	1	0.0287	0.0956
Dimethoate	ND	ND	0.00554	0.0184	Pyridaben	ND	3	0.00505	0.0168
Dimethomorph	ND	20	0.00226	0.00752	Spinetoram	ND	3	0.00339	0.0113
Ethoprophos	ND	ND	0.00554	0.0184	Spinosad	ND	3	0.00349	0.0116
Etofenprox	ND	ND	0.00559	0.0186	Spiromesifen	ND	12	0.0240	0.0798
Etoxazole	ND	1.5	0.0105	0.0349	Spirotetramat	ND	13	0.00500	0.0166
Fenhexamid	ND	10	0.00462	0.0154	Spiroxamine	ND	ND	0.00554	0.0184
Fenoxycarb	ND	ND	0.00554	0.0184	Tebuconazole	ND	2	0.00494	0.0165
Fenpyroximate	ND	2	0.00457	0.0152	Thiacloprid	ND	ND	0.00548	0.0183
Fipronil	ND	ND	0.0125	0.0417	Thiamethoxam	ND	4.5	0.00505	0.0168
Flonicamid	ND	2	0.00457	0.0152	Trifloxystrobin	ND	30	0.00505	0.0168

Residual Solvents Results

3/5/2020

Residual solvents and processing chemicals analysis utilizing Headspace Gas Chromatography – Mass Spectrometry (HS-GC-MS; SOP-010) - Limit units: µg/g

Analyte	µg/g	Limit	LOD µg/g	LOQ µg/g	Analyte	µg/g	Limit	LOD µg/g	LOQ µg/g
1,2 Dichloroethane	ND	1	0.00426	0.0570	n-Heptane	ND	5000	0.187	26.2
Acetone	ND	5000	0.121	2.62	n-Hexane	ND	290	0.0122	0.323
Acetonitrile	ND	410	0.0419	0.460	Isopropanol	ND	5000	0.146	2.61
Benzene	ND	1	0.00270	0.0228	Methanol	ND	3000	0.364	3.38
n-Butane	ND	5000	0.0523	4.70	Methylene Chloride	ND	1	0.00111	0.667
Chloroform	ND	1	0.00220	0.0684	n-Pentane	< LOQ	5000	0.152	2.64
Ethanol	ND	5000	0.861	2.62	Propane	ND	5000	0.00816	0.187
Ethyl Acetate	ND	5000	0.110	2.63	Toluene	ND	890	0.0563	1.01
Ethyl Ether	ND	5000	0.110	26.2	Total Xylenes	ND	2170	0.0866	4.88
Ethylene Oxide	ND	1	0.0210	0.0564	Trichloroethylene	ND	1	0.00334	0.904

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Microbial Impurities Results

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Microbiological screening utilizing Pathogen Dx. (PDX; SOP-076)

Analyte	Result	Limit	LOQ
Aspergillus flavus	ND	ND	Not Detected in 1 gram
Aspergillus fumigatus	ND	ND	Not Detected in 1 gram
Aspergillus niger	ND	ND	Not Detected in 1 gram
Aspergillus terreus	ND	ND	Not Detected in 1 gram
E. coli (STEC)	ND	ND	Not Detected in 1 gram
Salmonella	ND	ND	Not Detected in 1 gram

Mycotoxin Results

NT

Mycotoxin analysis utilizing Liquid Chromatography – Mass Spectrometry (LC-MSMS; SOP-070) - Limit units: µg/kg

Analyte	µg/kg	Limit	LOD µg/kg	LOQ µg/kg
Aflatoxin B1	NT	NT	NT	NT
Aflatoxin B2	NT	NT	NT	NT
Aflatoxin G1	NT	NT	NT	NT
Aflatoxin G2	NT	NT	NT	NT
Ochratoxin A	NT	NT	NT	NT
Total Aflatoxins	NT	NT	NT	NT

Heavy Metals Results

3/8/2020

Heavy metals analysis utilizing Inductively Coupled Plasma Mass Spectrometry (ICP-MS; SOP-072) - Limit units: µg/g

Analyte	µg/g	Limit	LOD µg/g	LOQ µg/g
Arsenic	ND	1.5	0.0138	0.0397
Cadmium	ND	0.5	0.0138	0.0432
Lead	0.0383	0.5	0.00691	0.0224
Mercury	ND	3	0.0104	0.0311

Foreign Material Results

NT

Foreign material analysis utilizing visual inspection (SOP-057)

Analyte	Pass/Fail
Visual Inspection	NT

Moisture Results

NT

Moisture content analysis utilizing Moisture Balance (MB; SOP-055)

Analyte	%
Moisture	NT

Water Activity Results

NT

Water Activity analysis utilizing Water Activity Meter (WAM; SOP-090) - Limit units: Aw

Analyte	Aw	Limit
Water Activity	NT	NT

<p>LOD: Limit of Detection LOQ: Limit of Quantitation NT: Not Tested ND: Not Detected</p>
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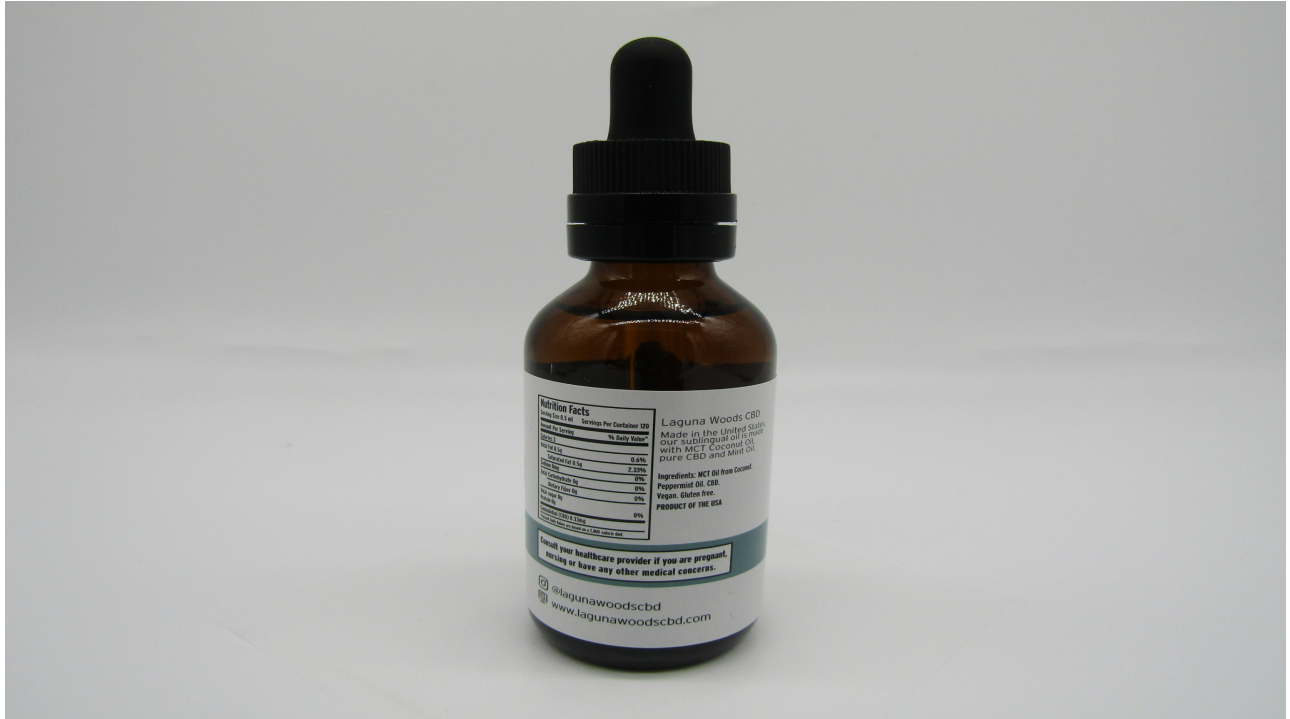


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Photos



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