Bia Diagnostics Laboratories

Office: 802-540-0148 | Fax: 802-540-0147
480 HERCULES DR. COLCHESTER, VT 05446

Certificate of Analysis

Company: Bald Mountain Botanicals
101 Howe Hill Road
Camden, ME 04843
Customer ID: 211203-0
Grower License #: 1485 (Maine)

Sample ID: Organic CBD Oil
Lot: N/A
Matrix: Oil
Date Sampled: 2/28/2022
Date Received: 3/1/2022

Report Date: 3/9/2022
Date Analyzed: 3/3/2022
Analyst: SCG
Report ID: C220301AB

Cannabinoid Summary

Cannabinoid Profile	LOQ (mg/g)	Concentration (mg/g)	Weight (%)
CBDVA	0.0005	<LOQ	<LOQ
CBDV	0.0012	0.20	0.02
CBDA	0.0008	3.00	0.30
CBGA	0.0008	<LOQ	<LOQ
CBG	0.0019	0.43	0.04
CBD	0.0019	29.34	2.93
THCV	0.0021	<LOQ	<LOQ
CBN	0.0013	<LOQ	<LOQ
Δ9-THC	0.0020	1.27	0.13
Δ8-THC	0.0019	<LOQ	<LOQ
THC-A	0.0034	<LOQ	<LOQ
CBC	0.0024	3.65	0.36
Total THC		1.27	0.13
Total CBD		31.96	3.20
Total Cannabinoids		37.87	3.79

0.13% **Total THC**	3.2% **Total CBD**
3.79% **Total Cannabinoids**	0.13% **Δ9-THC**
N/A **Percent Moisture**	1 : 25.2 **THC : CBD Ratio**

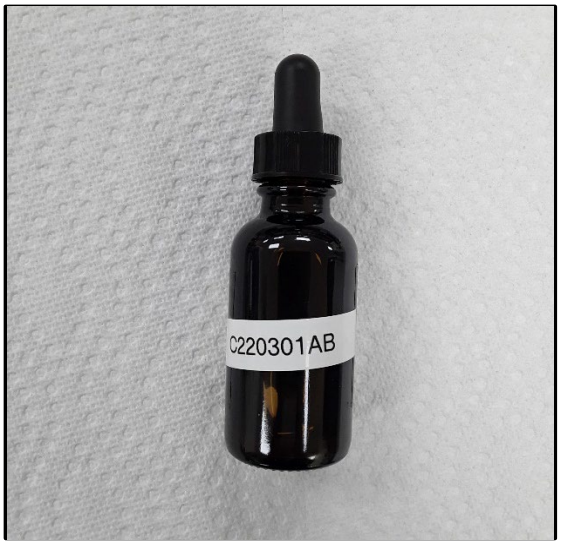
Cannabinoids Methodology: High Performance Liquid Chromatography (HPLC) using PerkinElmer FLEXAR™ with Photo Diode Array Detector (PDA)

Total CBD and total THC are calculated values, to account for assumed decarboxylation from the acid form (THCA or CBDA) to the neutral form, causing weight loss of the acid group. These values are calculated as follows:
Total THC = (THCA x 0.877) + Δ9-THC
Total CBD = (CBDA x 0.877) + CBD
Ratio of Total CBD: Total THC
Reagent Blanks: < LOQs for all analytes

LOQ = The lowest quantity that this method can reliably detect. Any cannabinoid that was not detected is assumed to be less than the stated LOQ (<LOQ).

All results reflect dry weight of material, based on % moisture of the sample.

Measurement of Uncertainty (MU): the parameter, associated with the result of a measurement, that characterizes the dispersion of the values that could reasonably be attributed to the particular quantity subject to measurement.
Δ9-THC MU = ±0.005%
Total THC MU = ±0.007%
All other cannabinoid MU values are available upon request.



Certified by: Luke E. M
Luke Emerson Mason (Laboratory Director, Bia Diagnostics)

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Heavy Metal Summary

Heavy Metal Profile	LOQ (ppm)	Concentration (ppm)
Arsenic (As)	0.0001	0.0054
Cadmium (Cd)	0.0001	0.0002
Mercury (Hg)	0.0001	<LOQ
Lead (Pb)	0.0001	0.0032

Heavy Metal Methodology: ICP-MS using PerkinElmer NexION® 2000 ICP Mass Spectrometer

Reagent Blanks: < LOQs for all analytes

ppm = parts per million

LOQ = The lowest quantity that this method can reliably detect. Any heavy metal that was not detected is assumed to be less than the stated LOQ (<LOQ).

All results reflect dry weight of material, based on % moisture of the sample.

NA

Percent Moisture

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Analyst: LEM
Report ID: C220301AB

Plate Count Summary

Microbial Profile	3M Petrifilm Reference #	LOQ (cfu/g)	Plate Count (cfu/g)
Total Aerobic Plate Count	6400	91	728
Yeast and Mold Plate Count	6407	91	<LOQ

Microbial Methodology: 3M™ Petrifilm Plates

cfu/g = colony forming units per gram

LOQ = The lowest quantity that this method can reliably detect. Any microbial growth that was not detected is assumed to be less than the stated LOQ (<LOQ).

Reagent Blanks: <LOQ for all analytes

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Pesticides/Mycotoxins Summary

Category II Residual Pesticide	LOQ (ppb)	Concentration (ppb)
Abamectin	10.0	<LOQ
Acephate	1.0	<LOQ
Acequinocyl	1.0	<LOQ
Acetamiprid	1.0	<LOQ
Azoxystrobin	1.0	<LOQ
Bifenazate	1.0	<LOQ
Bifenthrin	1.0	<LOQ
Boscalid	1.0	<LOQ
Carbaryl	1.0	<LOQ
Chlorantraniliprole	1.0	<LOQ
Clofentezine	1.0	<LOQ
Cyfluthrin	10.0	<LOQ
Cypermethrin	10.0	<LOQ
Diazinon	1.0	<LOQ
Etoxazole	1.0	<LOQ
Fenpyroximate	1.0	<LOQ
Flonicamid	1.0	<LOQ
Hexythiazox	1.0	<LOQ
Imidacloprid	1.0	<LOQ
Kresoxim-methyl	1.0	<LOQ
Malathion	1.0	<LOQ
Metalaxyl	1.0	<LOQ
MGK-264	1.0	<LOQ
Methomyl	1.0	<LOQ
Myclobutanil	1.0	<LOQ
Naled	1.0	<LOQ
Oxamyl	1.0	<LOQ
Permethrin	1.0	<LOQ
Phosmet	1.0	<LOQ
Piperonylbutoxide	1.0	<LOQ
Prallethrin	1.0	<LOQ
Propiconazole	1.0	<LOQ
Pyrethrin I	1.0	<LOQ
Pyrethrin II	1.0	<LOQ
Pyridaben	1.0	<LOQ
Spinosyn A	1.0	<LOQ
Spinosyn D	1.0	<LOQ
Spiromesifen	1.0	<LOQ
Spirotetramat	1.0	<LOQ
Tebuconazole	1.0	<LOQ
Thiamethoxam	1.0	<LOQ
Trifloxystrobin	1.0	<LOQ

Category II Mycotoxin	LOQ (ppb)	Concentration (ppb)
Ochratoxin A	2.0	<LOQ
Aflatoxin B1	0.2	<LOQ
Alfatoxin B2	1.0	<LOQ
Alfatoxin G1	0.2	<LOQ
Alfatoxin G2	1.0	<LOQ

Category I Residual Pesticide	LOQ (ppb)	Concentration (ppb)
Aldicarb	1.0	<LOQ
Carbofuran	1.0	<LOQ
Chlorfenpyr	1.0	<LOQ
Chlorpyrifos	1.0	<LOQ
Daminozide	10.0	<LOQ
DDVP (Dichlorvos)	1.0	<LOQ
Dimethoate	1.0	<LOQ
Ethoprop(hos)	1.0	<LOQ
Etofenprox	1.0	<LOQ
Fenoxycarb	1.0	<LOQ
Fipronil	25.0	<LOQ
Imazalil	1.0	<LOQ
Methiocarb	1.0	<LOQ
Methyl parathion	1.0	<LOQ
Paclobutrazol	1.0	<LOQ
Propoxur	1.0	<LOQ
Spiroxamine	5.0	<LOQ
Thiacloprid	1.0	<LOQ

NA

Percent Moisture

LOQ = The lowest quantity this method can reliably detect. Any pesticide or mycotoxins that was not detected is assumed to be less than the stated LOQ (<LOQ).
All results reflect dry weight of material, based on % moisture of the sample.
ppb = parts per billion

Pesticides/Mycotoxin Methodology: Liquid Chromatography with Tandem Mass Spectrometry using PerkinElme QSight® LX50 UHPLC and QSight 220 Mass Spectrometer

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Analyst: CF
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Residual Solvents Summary

Residual Solvent	LOQ (µg/g)	Results (µg/g)
1,2-Dichloroethane	0.002	<LOQ
Benzene	0.003	<LOQ
Chloroform	0.006	<LOQ
Methylene Chloride	0.005	<LOQ
Trichloroethylene	0.001	<LOQ
Acetone	0.005	<LOQ
Acetonitrile	0.002	<LOQ
Propane	0.005	<LOQ
Butane	24.000	<LOQ
Ethanol	0.036	<LOQ
Ethyl acetate	0.014	<LOQ
Ethyl Ether	0.225	<LOQ
Heptane	1.500	<LOQ
Hexane	0.023	<LOQ
Isopropyl Alcohol	0.018	<LOQ
Methanol	0.009	<LOQ
Pentane	22.500	<LOQ
Toluene	0.005	<LOQ
Total Xylenes	0.011	<LOQ

LOQ = The lowest quantity that this method can reliably detect. Any residual solvent that was not detected is assumed to be less than the stated LOQ (<LOQ).

Residual Solvent Methodology: Headspace Sampler, Gas Chromatography-Mass Spectrometry (GC-MS), using Perkin Elmer Clarus® SQ8 GC MS

Reagent Blanks: < LOQs for all analytes

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Terpenes Summary

Terpene	LOQ (mg/g)	Results (mg/g)	Weight (%)
α- Pinene	0.010	<LOQ	<LOQ
Camphene	0.010	<LOQ	<LOQ
β-Myrcene	0.010	0.276	0.028
b-Pinene	0.010	0.010	0.001
3-Carene	0.010	<LOQ	<LOQ
α-Terpinene	0.010	<LOQ	<LOQ
Limonene	0.010	0.063	0.006
ρ-Cymene	0.010	<LOQ	<LOQ
Ocimene	0.010	<LOQ	<LOQ
Eucalyptol	0.010	0.016	0.002
ϒ-Terpinene	0.010	<LOQ	<LOQ
Terpinolene	0.010	<LOQ	<LOQ
Linalool	0.010	0.013	0.001
Isopulegol	0.010	<LOQ	<LOQ
Geraniol	0.010	<LOQ	<LOQ
Caryophyllene	0.010	0.161	0.016
α-Humulene	0.010	0.058	0.006
Trans-Nerolidol	0.010	<LOQ	<LOQ
Cis-Nerolidol	0.010	<LOQ	<LOQ
Guaiol	0.010	<LOQ	<LOQ
Caryophyllene Oxide	0.010	<LOQ	<LOQ
α-Bisabolol	0.010	<LOQ	<LOQ
Total Terpenes		0.597	0.060

NA

Percent Moisture

LOQ = The lowest quantity that this method can reliably detect. Any terpene that was not detected is assumed to be less than the stated LOQ (<LOQ).

Terpene Methodology: Headspace Sampler, Gas Chromatography-Mass Spectrometry (GC-MS), using Perkin Elmer Clarus® SQ8 GC MS

Reagent Blanks: < LOQs for all analytes

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