



Steep Hill Arkansas

11711 HERMITAGE ROAD, SUITE #5, LITTLE ROCK, AR 72211 LICENSE #: BL157155

CERTIFICATE OF ANALYSIS

Sample Name: CBD Hemp Oil Blend 40mg
 Steep Hill ID: AR102856
 Batch ID: C40061319966A
 State ID:
 Sample Type: Tincture
 Date Received: 6/3/2021
 Date Reported: 6/5/2021
 Pkg. Volume: 30 mL
 # of Servings: 30
 Density: 0.970 g/mL

Customer: Beyond Organic Nutritionals
 5488 Country Rd. 333
 Koshkonong, MO 65692

OVERALL BATCH SUMMARY: **PASS**

Cannabinoids	Residual Pesticides	Microbial Impurities	Heavy Metals	Residual Solvents	Moisture	Water Activity
Tested	NT	Pass	NT	NT	NT	NT



Total THC
 0.125 %
 1.25 mg/g
 36.5 mg/pkg
 1.22 mg/serv

Total CBD
 4.07 %
 40.7 mg/g
 1183 mg/pkg
 39.4 mg/serv

Total Cannabinoids
 4.73 %
 47.3 mg/g
 1375 mg/pkg
 45.9 mg/serv

Brandon Thornton
 Pharm D. Co-Owner & CEO
 Date: 6/10/2021

Determination of Pass/Fail is based on RULES AND REGULATIONS GOVERNING MEDICAL MARIJUANA REGISTRATION, TESTING, AND LABELING IN ARKANSAS. Steep Hill Arkansas does not use Measurement Uncertainty when determining results. Measurement Uncertainty information is available upon request.

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CERTIFICATE OF ANALYSIS

Cannabinoid Results

6/5/2021

Standard potency analysis utilizing Ultra High Performance Liquid Chromatography (UHPLC; SOP-068-AR)

Analyte	%	mg/g	mg/pkg	mg/serv	LOD mg/g	LOQ mg/g
CBC	0.429	4.29	125	4.17	0.0216	0.0647
CBD	4.06	40.6	1181	39.4	0.0324	0.100
CBDA	0.00959	0.0959	2.79	0.0931	0.0173	0.0529
CBDV	0.0333	0.333	9.69	0.323	0.0216	0.0647
CBG	0.0710	0.710	20.7	0.689	0.0367	0.112
CBGA	ND	ND	ND	ND	0.0162	0.0475
CBN	ND	ND	ND	ND	0.0205	0.0604
THC	0.125	1.25	36.5	1.22	0.0798	0.114
delta-8-THC	ND	ND	ND	ND	0.0194	0.0572
THCA	ND	ND	ND	ND	0.0162	0.0518
THCV	ND	ND	ND	ND	0.0335	0.0993
Total	4.73	47.3	1375	45.9		

Terpenoid Results

NT

Standard terpene analysis utilizing Gas Chromatography – Mass Spectrometry (GC-MS; SOP-069-AR)
This method is not included in our ISO accreditation scope.

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
Eucalyptol	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	Terpineol	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

LOD: Limit of Detection
 LOQ: Limit of Quantitation
 NT: Not Tested
 ND: Not Detected

Brandon Thornton
Pharm D. Co-Owner & CEO
Date: 6/10/2021

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CERTIFICATE OF ANALYSIS

Residual Pesticides Results

NT

Residual pesticide analysis utilizing Liquid and Gas Chromatography – Mass Spectrometry (LC-MSMS + GC-MSMS); SOP-070-AR + SOP-073-AR) - Limit units: ug/g = ppm

Analyte	Pass/Fail	µg/g	Limit	LOD µg/g	LOQ µg/g	Analyte	Pass/Fail	µg/g	Limit	LOD µg/g	LOQ µg/g
Abamectin	NT	NT	NT	NT	NT	Imazailil	NT	NT	NT	NT	NT
Acephate	NT	NT	NT	NT	NT	Imidacloprid	NT	NT	NT	NT	NT
Acequinocyl	NT	NT	NT	NT	NT	Kresoxim-methyl	NT	NT	NT	NT	NT
Acetamiprid	NT	NT	NT	NT	NT	Malathion	NT	NT	NT	NT	NT
Aldicarb	NT	NT	NT	NT	NT	Metalaxyl	NT	NT	NT	NT	NT
Azoxystrobin	NT	NT	NT	NT	NT	Methiocarb	NT	NT	NT	NT	NT
Bifenazate	NT	NT	NT	NT	NT	Methomyl	NT	NT	NT	NT	NT
Bifenthrin	NT	NT	NT	NT	NT	Methyl Parathion	NT	NT	NT	NT	NT
Boscalid	NT	NT	NT	NT	NT	MGK-264	NT	NT	NT	NT	NT
Carbaryl	NT	NT	NT	NT	NT	Myclobutanil	NT	NT	NT	NT	NT
Carbofuran	NT	NT	NT	NT	NT	Naled	NT	NT	NT	NT	NT
Chlorantraniliprole	NT	NT	NT	NT	NT	Oxamyl	NT	NT	NT	NT	NT
Chlorfenapyr	NT	NT	NT	NT	NT	Paclobutrazol	NT	NT	NT	NT	NT
Chlorpyrifos	NT	NT	NT	NT	NT	Permethrins	NT	NT	NT	NT	NT
Clofentezine	NT	NT	NT	NT	NT	Phosmet	NT	NT	NT	NT	NT
Cyfluthrin	NT	NT	NT	NT	NT	Piperonyl Butoxide	NT	NT	NT	NT	NT
Cypermethrin	NT	NT	NT	NT	NT	Prallethrin	NT	NT	NT	NT	NT
Daminozide	NT	NT	NT	NT	NT	Propiconazole	NT	NT	NT	NT	NT
Diazinon	NT	NT	NT	NT	NT	Propoxur	NT	NT	NT	NT	NT
DDVP (Dichlorvos)	NT	NT	NT	NT	NT	Pyrethrins	NT	NT	NT	NT	NT
Dimethoate	NT	NT	NT	NT	NT	Pyridaben	NT	NT	NT	NT	NT
Ethoprophos	NT	NT	NT	NT	NT	Spinosad	NT	NT	NT	NT	NT
Etofenprox	NT	NT	NT	NT	NT	Spiromesifen	NT	NT	NT	NT	NT
Etoxazole	NT	NT	NT	NT	NT	Spirotetramat	NT	NT	NT	NT	NT
Fenoxycarb	NT	NT	NT	NT	NT	Spiroxamine	NT	NT	NT	NT	NT
Fenpyroximate	NT	NT	NT	NT	NT	Tebuconazole	NT	NT	NT	NT	NT
Fipronil	NT	NT	NT	NT	NT	Thiacloprid	NT	NT	NT	NT	NT
Fonicamid	NT	NT	NT	NT	NT	Thiamethoxam	NT	NT	NT	NT	NT
Fludioxonil	NT	NT	NT	NT	NT	Trifloxystrobin	NT	NT	NT	NT	NT
Hexythiazox	NT	NT	NT	NT	NT						

Heavy Metals Results

NT

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

Analyte	Pass/Fail	µg/kg	Limit	LOD µg/kg	LOQ µg/kg
Arsenic	NT	NT	NT	NT	NT
Cadmium	NT	NT	NT	NT	NT
Lead	NT	NT	NT	NT	NT
Mercury	NT	NT	NT	NT	NT

Microbial Impurities Results

Pass

6/5/2021

Microbiological screening utilizing 3M Petrifilm (SOP-700-AR) - Limit units: CFU/g

Analyte	Pass/Fail	Result	Limit	LOQ
Coliform	Pass	ND		Not Detected in 1 gram
General E. coli	NT	NT	NT	NT
Salmonella		NT	NT	NT

Moisture Results

NT

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

Analyte	Pass/Fail	%	Limit
Moisture	NT	NT	

Water Activity Results

NT

Water activity analysis utilizing Water Activity Meter (WAM; SOP-059-AR) - Limit units: Aw

Analyte	Pass/Fail	Aw	Limit
Water Activity	NT	NT	

Brandon Thornton
Pharm D. Co-Owner & CEO
Date: 6/10/2021

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Residual Solvents Results

NT

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

Analyte	Pass/Fail	µg/g	Limit	LOD µg/g	LOQ µg/g	Analyte	Pass/Fail	µg/g	Limit	LOD µg/g	LOQ µg/g
1-Butanol	NT	NT	NT	NT	NT	Dimethyl Sulfoxide	NT	NT	NT	NT	NT
1-Pentanol	NT	NT	NT	NT	NT	Ethanol	NT	NT	NT	NT	NT
1-Propanol	NT	NT	NT	NT	NT	Ethyl Acetate	NT	NT	NT	NT	NT
1,2-Dimethoxyethane	NT	NT	NT	NT	NT	Ethyl Ether	NT	NT	NT	NT	NT
1,4-Dioxane	NT	NT	NT	NT	NT	Ethylene Glycol	NT	NT	NT	NT	NT
2-Butanol	NT	NT	NT	NT	NT	Ethylene Oxide	NT	NT	NT	NT	NT
2-Butanone	NT	NT	NT	NT	NT	n-Heptane	NT	NT	NT	NT	NT
2-Ethoxyethanol	NT	NT	NT	NT	NT	n-Hexane	NT	NT	NT	NT	NT
2-Methylbutane	NT	NT	NT	NT	NT	Isopropyl Acetate	NT	NT	NT	NT	NT
2-Methylpentane	NT	NT	NT	NT	NT	Methanol	NT	NT	NT	NT	NT
2-Propanol (IPA)	NT	NT	NT	NT	NT	Methylpropane	NT	NT	NT	NT	NT
2,2-Dimethylbutane	NT	NT	NT	NT	NT	N,N-Dimethylacetamide	NT	NT	NT	NT	NT
2,3-Dimethylbutane	NT	NT	NT	NT	NT	N,N-Dimethylformamide	NT	NT	NT	NT	NT
3-Methylpentane	NT	NT	NT	NT	NT	n-Pentane	NT	NT	NT	NT	NT
Acetone	NT	NT	NT	NT	NT	Propane	NT	NT	NT	NT	NT
Acetonitrile	NT	NT	NT	NT	NT	Pyridine	NT	NT	NT	NT	NT
Benzene	NT	NT	NT	NT	NT	Sulfolane	NT	NT	NT	NT	NT
n-Butane	NT	NT	NT	NT	NT	Tetrahydrofuran	NT	NT	NT	NT	NT
Cumene	NT	NT	NT	NT	NT	Toluene	NT	NT	NT	NT	NT
Cyclohexane	NT	NT	NT	NT	NT	Xylenes	NT	NT	NT	NT	NT
Dichloromethane	NT	NT	NT	NT	NT						

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