



# Steep Hill Arkansas

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

## CERTIFICATE OF ANALYSIS

Sample Name: CBD 40mg Caplet  
 Steep Hill ID: AR85573  
 Batch ID: 4440-02  
 State ID:  
 Sample Type: Capsule  
 Date Received: 5/12/2020  
 Date Reported: 5/17/2020  
 Pkg. Mass: 53.5 g  
 # of Servings:  
 Capsule Mass: 0.891 g

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	Pass	Pass	Pass	Pass	Pass	Pass



**Total THC**  
 0.0321 %  
 0.321 mg/g  
 17.1 mg/pkg  
 0.286 mg/capsule

**Total CBD**  
 3.40 %  
 34.0 mg/g  
 1817 mg/pkg  
 30.3 mg/capsule

**Total Cannabinoids**  
 3.43 %  
 34.3 mg/g  
 1836 mg/pkg  
 30.6 mg/capsule

Brandon Thornton  
 Pharm D. Co-Owner & CEO  
 Date: 5/20/2020

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## CERTIFICATE OF ANALYSIS

### Cannabinoid Results

5/17/2020

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

Analyte	%	mg/g	mg/pkg	mg/capsule	LOD mg/g	LOQ mg/g
CBC	NT	NT	NT	NT	NT	NT
CBD	3.37	33.7	1802	30.0	0.0169	0.0563
CBDA	0.0322	0.322	17.2	0.287	0.0460	0.153
CBDV	NT	NT	NT	NT	NT	NT
CBG	NT	NT	NT	NT	NT	NT
CBGA	NT	NT	NT	NT	NT	NT
CBN	NT	NT	NT	NT	NT	NT
THC	0.0321	0.321	17.1	0.286	0.0244	0.0813
delta-8-THC	NT	NT	NT	NT	NT	NT
THCA	ND	ND	ND	ND	0.0346	0.115
THCV	NT	NT	NT	NT	NT	NT
Total	3.43	34.3	1836	30.6		

### Terpenoid Results

5/15/2020

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	LOD mg/g	LOQ mg/g	Analyte	%	mg/g	LOD mg/g	LOQ mg/g
$\alpha$ -Bisabolol	NT	NT	NT	NT	Linalool	ND	ND	0.0156	0.0519
endo-Borneol	NT	NT	NT	NT	Menthol	NT	NT	NT	NT
Camphene	NT	NT	NT	NT	$\beta$ -Myrcene	ND	ND	0.00706	0.0235
Camphor	NT	NT	NT	NT	Nerol	NT	NT	NT	NT
3-Carene	NT	NT	NT	NT	cis-Nerolidol	NT	NT	NT	NT
Caryophyllene Oxide	ND	ND	0.0261	0.0869	trans-Nerolidol	NT	NT	NT	NT
$\beta$ -Caryophyllene	0.0603	0.603	0.0138	0.0458	cis- $\beta$ -Ocimene	NT	NT	NT	NT
$\alpha$ -Cedrene	NT	NT	NT	NT	trans- $\beta$ -Ocimene	NT	NT	NT	NT
Cedrol	NT	NT	NT	NT	$\alpha$ -Phellandrene	NT	NT	NT	NT
Eucalyptol	NT	NT	NT	NT	$\alpha$ -Pinene	ND	ND	0.00795	0.0265
$\beta$ -Farnesene	NT	NT	NT	NT	$\beta$ -Pinene	ND	ND	0.00752	0.0251
Fenchol	NT	NT	NT	NT	Pulegone	NT	NT	NT	NT
Fenchone	NT	NT	NT	NT	Sabinene	NT	NT	NT	NT
Geraniol	NT	NT	NT	NT	Sabinene Hydrate	NT	NT	NT	NT
Geranyl Acetate	NT	NT	NT	NT	$\alpha$ -Terpinene	NT	NT	NT	NT
Guaiol	NT	NT	NT	NT	$\gamma$ -Terpinene	NT	NT	NT	NT
$\alpha$ -Humulene	0.0510	0.510	0.00954	0.0318	Terpineol	NT	NT	NT	NT
Isoborneol	NT	NT	NT	NT	Terpinolene	ND	ND	0.0210	0.0700
Isopulegol	NT	NT	NT	NT	Valencene	NT	NT	NT	NT
Limonene	ND	ND	0.00569	0.0190	Total	0.111	1.11		

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

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## CERTIFICATE OF ANALYSIS

### Residual Pesticides Results

Pass

5/14/2020

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	Pass	ND	0.5	0.180	0.601	Imazalil	Pass	ND	0.2	0.0232	0.0774
Acephate	Pass	ND	0.4	0.0140	0.0468	Imidacloprid	Pass	ND	0.4	0.0109	0.0364
Acequinocyl	Pass	ND	2	0.201	0.670	Kresoxim-methyl	Pass	ND	0.4	0.00968	0.0323
Acetamiprid	Pass	ND	0.2	0.0142	0.0473	Malathion	Pass	ND	0.2	0.00673	0.0224
Aldicarb	Pass	ND	0.4	0.0904	0.301	Metalaxyl	Pass	ND	0.2	0.00993	0.0331
Azoxystrobin	Pass	0.0468	0.2	0.0128	0.0425	Methiocarb	Pass	ND	0.2	0.00955	0.0319
Bifenazate	Pass	ND	0.2	0.00890	0.0297	Methomyl	Pass	ND	0.4	0.0143	0.0477
Bifenthrin	Pass	ND	0.2	0.0717	0.239	Methyl Parathion	Pass	ND	0.2	0.0159	0.0467
Boscalid	Pass	ND	0.4	0.0227	0.0758	MGK-264	Pass	ND	0.2	0.00212	0.00531
Carbaryl	Pass	ND	0.2	0.00850	0.0283	Myclobutanil	Pass	ND	0.2	0.0120	0.0400
Carbofuran	Pass	ND	0.2	0.0100	0.0333	Naled	Pass	ND	0.5	0.0214	0.0714
Chlorantraniliprole	Pass	ND	0.2	0.0156	0.0519	Oxamyl	Pass	ND	1	0.0202	0.0673
Chlorfenapyr	Pass	ND	1	0.0159	0.0467	Paclobutrazol	Pass	ND	0.4	0.0170	0.0566
Chlorpyrifos	Pass	ND	0.2	0.0145	0.0482	Permethrins	Pass	ND	0.2	0.0149	0.0435
Clofentezine	Pass	ND	0.2	0.0200	0.0666	Phosmet	Pass	ND	0.2	0.0150	0.0500
Cyfluthrin	Pass	ND	1	0.0244	0.0711	Piperonyl Butoxide	Pass	ND	2	0.00983	0.0328
Cypermethrin	Pass	ND	1	0.0244	0.0732	Prallethrin	Pass	ND	0.2	0.0325	0.108
Daminozide	Pass	ND	1	0.0292	0.0972	Propiconazole	Pass	ND	0.4	0.00700	0.0233
Diazinon	Pass	ND	0.2	0.0103	0.0344	Propoxur	Pass	ND	0.2	0.00768	0.0256
DDVP (Dichlorvos)	Pass	ND	0.1	0.0136	0.0453	Pyrethrins	Pass	ND	1	0.0108	0.0361
Dimethoate	Pass	ND	0.2	0.0143	0.0476	Pyridaben	Pass	ND	0.2	0.0164	0.0545
Ethoprophos	Pass	ND	0.2	0.0139	0.0462	Spinosad	Pass	ND	0.2	0.0185	0.0618
Etofenprox	Pass	ND	0.4	0.0196	0.0654	Spiromesifen	Pass	ND	0.2	0.0161	0.0536
Etoxazole	Pass	ND	0.2	0.0158	0.0528	Spirotetramat	Pass	ND	0.2	0.00782	0.0261
Fenoxycarb	Pass	ND	0.2	0.0126	0.0420	Spiroxamine	Pass	ND	0.4	0.0239	0.0796
Fenpyroximate	Pass	ND	0.4	0.0101	0.0338	Tebuconazole	Pass	ND	0.4	0.00710	0.0237
Fipronil	Pass	ND	0.4	0.0197	0.0656	Thiacloprid	Pass	ND	0.2	0.00833	0.0278
Flonicamid	Pass	ND	1	0.0251	0.0837	Thiamethoxam	Pass	ND	0.2	0.00834	0.0278
Fludioxonil	Pass	ND	0.4	0.0238	0.0793	Trifloxystrobin	Pass	ND	0.2	0.0103	0.0342
Hexythiazox	Pass	ND	1	0.0105	0.0349						

### Heavy Metals Results

Pass

5/15/2020

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	Pass	113	200	1.48	4.93
Cadmium	Pass	138	200	0.483	1.61
Lead	Pass	260	500	1.28	4.27
Mercury	Pass	7.33	100	0.792	2.64

### Microbial Impurities Results

Pass

5/13/2020

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

Pass

5/12/2020

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

Analyte	Pass/Fail	%	Limit
Moisture	Pass	4.89	15

### Water Activity Results

Pass

5/12/2020

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

Analyte	Pass/Fail	Aw	Limit
Water Activity	Pass	0.345	0.65

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## CERTIFICATE OF ANALYSIS

### Residual Solvents Results

Pass

5/15/2020

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	Pass	ND	5000	14.9	49.8	Dimethyl Sulfoxide	Pass	ND	5000	12.9	43.1
1-Pentanol	Pass	ND	5000	24.9	83.0	Ethanol	Pass	ND	5000	18.1	60.3
1-Propanol	Pass	ND	5000	37.2	124	Ethyl Acetate	Pass	ND	5000	6.51	21.7
1,2-Dimethoxyethane	Pass	ND	100	20.0	66.5	Ethyl Ether	Pass	ND	5000	2.28	7.62
1,4-Dioxane	Pass	ND	380	19.4	64.6	Ethylene Glycol	Pass	ND	620	2.14	7.12
2-Butanol	Pass	ND	5000	18.9	63.0	Ethylene Oxide	Pass	ND	50	1.51	5.02
2-Butanone	Pass	ND	5000	10.5	34.9	n-Heptane	Pass	ND	5000	8.25	27.5
2-Ethoxyethanol	Pass	ND	160	14.0	46.5	n-Hexane	Pass	ND	290	2.38	7.93
2-Methylbutane	Pass	ND	5000	1.80	5.99	Isopropyl Acetate	Pass	ND	5000	11.3	37.7
2-Methylpentane	Pass	ND	290	2.13	7.11	Methanol	Pass	ND	3000	8.11	27.0
2-Propanol (IPA)	Pass	ND	5000	26.5	85.9	Methylpropane	Pass	ND	5000	2.16	7.20
2,2-Dimethylbutane	Pass	ND	290	3.99	13.3	N,N-Dimethylacetamide	Pass	ND	1090	15.1	50.5
2,3-Dimethylbutane	Pass	ND	290	1.73	5.78	N,N-Dimethylformamide	Pass	ND	880	20.5	68.4
3-Methylpentane	Pass	ND	290	2.21	7.36	n-Pentane	Pass	ND	5000	1.90	6.32
Acetone	Pass	ND	5000	41.8	139	Propane	Pass	ND	5000	2.15	7.16
Acetonitrile	Pass	ND	410	16.9	50.8	Pyridine	Pass	ND	200	12.5	41.7
Benzene	Pass	ND	2	0.381	1.27	Sulfolane	Pass	ND	160	7.54	25.1
n-Butane	Pass	ND	5000	1.71	5.71	Tetrahydrofuran	Pass	ND	720	8.82	29.4
Cumene	Pass	ND	70	7.43	24.8	Toluene	Pass	ND	890	19.7	65.7
Cyclohexane	Pass	ND	3880	4.54	15.1	Xylenes	Pass	ND	2170	27.1	90.5
Dichloromethane	Pass	ND	600	1.91	6.38						

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