



Steep Hill Arkansas

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

CERTIFICATE OF ANALYSIS

Sample Name: Full Spectrum CBD Oil 1000mg
 Steep Hill ID: AR88182
 Batch ID: 30mL (Serving size 1mL)
 State ID:
 Sample Type: Tincture
 Date Received: 7/16/2020
 Date Reported: 7/22/2020
 Pkg. Volume: 30 mL
 # of Servings: 30
 Density: 1.05 g/mL

Customer: Anderson Rose Acres
 15287 Ball Rd
 Elkins, AR 72727
 LIC.# H94

OVERALL BATCH SUMMARY: **PASS**

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



Total THC
 0.154 %
 1.54 mg/g
 48.6 mg/pkg
 1.62 mg/serv

Total CBD
 3.54 %
 35.4 mg/g
 1115 mg/pkg
 37.2 mg/serv

Total Cannabinoids
 3.70 %
 37.0 mg/g
 1164 mg/pkg
 38.8 mg/serv

Brandon Thornton
 Pharm D. Co-Owner & CEO
 Date: 7/22/2020

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CERTIFICATE OF ANALYSIS

Cannabinoid Results

7/17/2020

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	NT	NT	NT	NT	NT	NT
CBD	3.54	35.4	1115	37.2	0.00754	0.0251
CBDA	ND	ND	ND	ND	0.0206	0.0685
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	0.154	1.54	48.6	1.62	0.0109	0.0363
delta-8-THC	NT	NT	NT	NT	NT	NT
THCA	ND	ND	ND	ND	0.0154	0.0515
THCV	NT	NT	NT	NT	NT	NT
Total	3.70	37.0	1164	38.8		

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

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CERTIFICATE OF ANALYSIS

Residual Pesticides Results

Pass

7/22/2020

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	0.165	0.549	Imazail	Pass	ND	0.2	0.0212	0.0706
Acephate	Pass	ND	0.4	0.0128	0.0427	Imidacloprid	Pass	ND	0.4	0.00998	0.0332
Acequinocyl	Pass	ND	2	0.184	0.612	Kresoxim-methyl	Pass	ND	0.4	0.00884	0.0295
Acetamiprid	Pass	ND	0.2	0.0129	0.0431	Malathion	Pass	ND	0.2	0.00614	0.0205
Aldicarb	Pass	ND	0.4	0.0825	0.275	Metalaxyl	Pass	ND	0.2	0.00906	0.0302
Azoxystrobin	Pass	ND	0.2	0.0116	0.0388	Methiocarb	Pass	ND	0.2	0.00872	0.0291
Bifenazate	Pass	ND	0.2	0.00812	0.0271	Methomyl	Pass	ND	0.4	0.0131	0.0435
Bifenthrin	Pass	ND	0.2	0.0654	0.218	Methyl Parathion	Pass	ND	0.2	0.0145	0.0426
Boscalid	Pass	ND	0.4	0.0207	0.0691	MGK-264	Pass	ND	0.2	0.00194	0.00484
Carbaryl	Pass	ND	0.2	0.00776	0.0259	Myclobutanil	Pass	ND	0.2	0.0109	0.0365
Carbofuran	Pass	ND	0.2	0.00913	0.0304	Naled	Pass	ND	0.5	0.0195	0.0651
Chlorantraniliprole	Pass	ND	0.2	0.0142	0.0474	Oxamyl	Pass	ND	1	0.0184	0.0614
Chlorfenapyr	Pass	ND	1	0.0145	0.0426	Paclobutrazol	Pass	ND	0.4	0.0155	0.0516
Chlorpyrifos	Pass	ND	0.2	0.0132	0.0440	Permethrins	Pass	ND	0.2	0.0136	0.0397
Clofentezine	Pass	ND	0.2	0.0182	0.0608	Phosmet	Pass	ND	0.2	0.0137	0.0456
Cyfluthrin	Pass	ND	1	0.0223	0.0649	Piperonyl Butoxide	Pass	ND	2	0.00897	0.0299
Cypermethrin	Pass	ND	1	0.0223	0.0668	Prallethrin	Pass	ND	0.2	0.0297	0.0990
Daminozide	Pass	ND	1	0.0266	0.0887	Propiconazole	Pass	ND	0.4	0.00638	0.0213
Diazinon	Pass	ND	0.2	0.00943	0.0314	Propoxur	Pass	ND	0.2	0.00700	0.0233
DDVP (Dichlorvos)	Pass	ND	0.1	0.0124	0.0414	Pyrethrins	Pass	ND	1	0.00989	0.0330
Dimethoate	Pass	ND	0.2	0.0130	0.0435	Pyridaben	Pass	ND	0.2	0.0149	0.0498
Ethoprophos	Pass	ND	0.2	0.0127	0.0422	Spinosad	Pass	ND	0.2	0.0169	0.0564
Etofenprox	Pass	ND	0.4	0.0179	0.0597	Spiromesifen	Pass	ND	0.2	0.0147	0.0489
Etoxazole	Pass	ND	0.2	0.0144	0.0481	Spirotetramat	Pass	ND	0.2	0.00714	0.0238
Fenoxycarb	Pass	ND	0.2	0.0115	0.0383	Spiroxamine	Pass	ND	0.4	0.0218	0.0726
Fenpyroximate	Pass	ND	0.4	0.00926	0.0309	Tebuconazole	Pass	ND	0.4	0.00648	0.0216
Fipronil	Pass	ND	0.4	0.0180	0.0599	Thiacloprid	Pass	ND	0.2	0.00761	0.0254
Flonicamid	Pass	ND	1	0.0229	0.0764	Thiamethoxam	Pass	ND	0.2	0.00761	0.0254
Fludioxonil	Pass	ND	0.4	0.0217	0.0724	Trifloxystrobin	Pass	ND	0.2	0.00937	0.0312
Hexythiazox	Pass	ND	1	0.00954	0.0318						

Heavy Metals Results

Pass

7/20/2020

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	ND	200	1.59	5.29
Cadmium	Pass	ND	200	0.518	1.73
Lead	Pass	ND	500	1.37	4.58
Mercury	Pass	< LOQ	100	0.849	2.83

Microbial Impurities Results

Pass

7/17/2020

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

NT

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

Analyte	Pass/Fail	%	Limit
Moisture	NT	NT	

Water Activity Results

Pass

7/16/2020

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

Analyte	Pass/Fail	Aw	Limit
Water Activity	Pass	0.360	0.65

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Pharm D. Co-Owner & CEO
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CERTIFICATE OF ANALYSIS

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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