



Steep Hill Arkansas



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

CERTIFICATE OF ANALYSIS

Sample Name: 3000mg Broad Natural
 Steep Hill ID: AR80331
 Batch ID: 29
 State ID:
 Sample Type: Tincture
 Date Received: 1/20/2020
 Date Reported: 2/6/2020
 Pkg. Volume: 60 mL
 # of Servings: 60
 Density: 0.965 g/mL

Customer: EVO3 OFI LLC
 8000 McBeth Way – STE 100
 The Woodlands, TX 77382

OVERALL BATCH SUMMARY: **PASS**

Cannabinoids	Residual Pesticides	Microbial Impurities	Heavy Metals	Residual Solvents	Moisture	Water Activity
N/A	Pass	Pass	Pass	Pass	NT	NT



Total THC
 Not Detected
 Not Detected
 Not Detected
 Not Detected

Total CBD
 5.30 %
 53.0 mg/g
 3069 mg/pkg
 51.2 mg/serv

Total Cannabinoids
 5.30 %
 53.0 mg/g
 3069 mg/pkg
 51.2 mg/serv

Brandon Thornton
 Pharm D. Co-Owner & CEO
 Date: 2/6/2020

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CERTIFICATE OF ANALYSIS

Cannabinoid Results

1/27/2020

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	5.30	53.0	3069	51.2	0.0173	0.0578
CBDA	ND	ND	ND	ND	0.0473	0.158
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	ND	ND	ND	ND	0.0251	0.0836
delta-8-THC	NT	NT	NT	NT	NT	NT
THCA	ND	ND	ND	ND	0.0355	0.118
THCV	NT	NT	NT	NT	NT	NT
Total	5.30	53.0	3069	51.2		

Terpenoid Results

NT

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

Analyte	%	mg/g	mg/mL	LOD mg/g	LOQ mg/g	Analyte	%	mg/g	mg/mL	LOD mg/g	LOQ mg/g
alpha-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-beta-Ocimene	NT	NT	NT	NT	NT
alpha-Cedrene	NT	NT	NT	NT	NT	trans-beta-Ocimene	NT	NT	NT	NT	NT
Cedrol	NT	NT	NT	NT	NT	alpha-Phellandrene	NT	NT	NT	NT	NT
Eucalyptol	NT	NT	NT	NT	NT	α-Pinene	NT	NT	NT	NT	NT
beta-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	alpha-Terpinene	NT	NT	NT	NT	NT
Guaiol	NT	NT	NT	NT	NT	gamma-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

Moisture Results

NT

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

Analyte	%
Moisture	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

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**1/31/2020**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	0.162	0.541	Imazail	Pass	ND	0.2	0.0209	0.0695
Acephate	Pass	ND	0.4	0.0126	0.0421	Imidacloprid	Pass	ND	0.4	0.00983	0.0328
Acequinocyl	Pass	ND	2	0.181	0.603	Kresoxim-methyl	Pass	ND	0.4	0.00870	0.0290
Acetamiprid	Pass	ND	0.2	0.0127	0.0425	Malathion	Pass	ND	0.2	0.00605	0.0202
Aldicarb	Pass	ND	0.4	0.0813	0.271	Metalaxyl	Pass	ND	0.2	0.00892	0.0297
Azoxystrobin	Pass	ND	0.2	0.0115	0.0382	Methiocarb	Pass	ND	0.2	0.00859	0.0286
Bifenazate	Pass	ND	0.2	0.00800	0.0267	Methomyl	Pass	ND	0.4	0.0129	0.0429
Bifenthrin	Pass	ND	0.2	0.0644	0.215	Methyl Parathion	Pass	ND	0.2	0.0143	0.0420
Boscalid	Pass	ND	0.4	0.0204	0.0681	MGK-264	Pass	ND	0.2	0.00191	0.00477
Carbaryl	Pass	ND	0.2	0.00764	0.0255	Myclobutanil	Pass	ND	0.2	0.0108	0.0359
Carbofuran	Pass	ND	0.2	0.00899	0.0299	Naled	Pass	ND	0.5	0.0192	0.0641
Chlorantraniliprole	Pass	ND	0.2	0.0140	0.0467	Oxamyl	Pass	ND	1	0.0181	0.0605
Chlorfenapyr	Pass	ND	1	0.0143	0.0420	Paclobutrazol	Pass	ND	0.4	0.0152	0.0508
Chlorpyrifos	Pass	ND	0.2	0.0130	0.0433	Permethrins	Pass	ND	0.2	0.0134	0.0391
Clofentezine	Pass	ND	0.2	0.0180	0.0598	Phosmet	Pass	ND	0.2	0.0135	0.0449
Cyfluthrin	Pass	ND	1	0.0219	0.0639	Piperonyl Butoxide	Pass	ND	2	0.00884	0.0294
Cypermethrin	Pass	ND	1	0.0219	0.0658	Prallethrin	Pass	ND	0.2	0.0292	0.0975
Daminozide	Pass	ND	1	0.0262	0.0874	Propiconazole	Pass	ND	0.4	0.00629	0.0210
Diazinon	Pass	ND	0.1	0.00929	0.0309	Propoxur	Pass	ND	0.2	0.00690	0.0230
DDVP (Dichlorvos)	Pass	ND	0.2	0.0122	0.0408	Pyrethrins	Pass	ND	1	0.00974	0.0325
Dimethoate	Pass	ND	0.2	0.0128	0.0428	Pyridaben	Pass	ND	0.2	0.0147	0.0490
Ethoprophos	Pass	ND	0.2	0.0125	0.0415	Spinosad	Pass	ND	0.2	0.0167	0.0555
Etofenprox	Pass	ND	0.4	0.0176	0.0588	Spiromesifen	Pass	ND	0.2	0.0145	0.0482
Etoxazole	Pass	ND	0.2	0.0142	0.0474	Spirotetramat	Pass	ND	0.2	0.00703	0.0234
Fenoxycarb	Pass	ND	0.2	0.0113	0.0377	Spiroxamine	Pass	ND	0.4	0.0215	0.0715
Fenpyroximate	Pass	ND	0.4	0.00912	0.0304	Tebuconazole	Pass	ND	0.4	0.00638	0.0213
Fipronil	Pass	ND	0.4	0.0177	0.0590	Thiacloprid	Pass	ND	0.2	0.00749	0.0250
Flonicamid	Pass	ND	1	0.0226	0.0752	Thiamethoxam	Pass	ND	0.2	0.00750	0.0250
Fludioxonil	Pass	ND	0.4	0.0214	0.0713	Trifloxystrobin	Pass	ND	0.2	0.00923	0.0308
Hexythiazox	Pass	ND	1	0.00940	0.0313						

Heavy Metals Results

Pass**1/30/2020**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	1.64	5.46
Cadmium	Pass	ND	200	0.535	1.78
Lead	Pass	ND	500	1.42	4.73
Mercury	Pass	< LOQ	100	0.876	2.92

Microbial Impurities Results

Pass**1/30/2020**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

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Residual Solvents Results**Pass****2/6/2020**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	17.1	56.9	Dimethyl Sulfoxide	Pass	ND	5000	14.8	49.3
1-Pentanol	Pass	ND	5000	28.5	94.9	Ethanol	Pass	ND	5000	20.7	68.9
1-Propanol	Pass	ND	5000	42.5	142	Ethyl Acetate	Pass	ND	5000	7.44	24.8
1,2-Dimethoxyethane	Pass	ND	100	22.8	76.0	Ethyl Ether	Pass	ND	5000	2.61	8.70
1,4-Dioxane	Pass	ND	380	22.2	73.9	Ethylene Glycol	Pass	ND	620	2.44	8.14
2-Butanol	Pass	ND	5000	21.6	71.9	Ethylene Oxide	Pass	ND	50	1.72	5.73
2-Butanone	Pass	ND	5000	11.9	39.8	Heptane	Pass	ND	5000	9.43	31.4
2-Ethoxyethanol	Pass	ND	160	15.9	53.2	n-Hexane	Pass	ND	290	2.72	9.06
2-Methylbutane	Pass	ND	5000	2.05	6.84	Isopropyl Acetate	Pass	ND	5000	12.9	43.1
2-Methylpentane	Pass	ND	290	2.44	8.13	Methanol	Pass	ND	3000	9.27	30.9
2-Propanol (IPA)	Pass	ND	5000	30.3	98.2	Methylpropane	Pass	ND	5000	2.47	8.23
2,2-Dimethylbutane	Pass	ND	290	4.56	15.2	N,N-Dimethylacetamide	Pass	ND	1090	17.3	57.6
2,3-Dimethylbutane	Pass	ND	290	1.98	6.61	N,N-Dimethylformamide	Pass	ND	880	23.4	78.1
3-Methylpentane	Pass	ND	290	2.52	8.41	Pentane	Pass	ND	5000	2.17	7.23
Acetone	Pass	ND	5000	47.8	159	Propane	Pass	ND	5000	2.45	8.18
Acetonitrile	Pass	ND	410	19.4	58.1	Pyridine	Pass	ND	200	14.3	47.6
Benzene	Pass	ND	2	0.435	1.45	Sulfolane	Pass	ND	160	8.62	28.7
Butane	Pass	ND	5000	1.96	6.52	Tetrahydrofuran	Pass	ND	720	10.1	33.6
Cumene	Pass	ND	70	8.49	28.3	Toluene	Pass	ND	890	22.5	75.0
Cyclohexane	Pass	ND	3880	5.19	17.3	Xylenes	Pass	ND	2170	31.0	103
Dichloromethane	Pass	ND	600	2.19	7.29						

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