



Steep Hill Arkansas



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

CERTIFICATE OF ANALYSIS

Sample Name: 1000mg Full Orange
 Steep Hill ID: AR80324
 Batch ID: 19
 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
 0.0298 %
 0.298 mg/g
 17.3 mg/pkg
 0.288 mg/serv

Total CBD
 1.82 %
 18.2 mg/g
 1051 mg/pkg
 17.5 mg/serv

Total Cannabinoids
 1.85 %
 18.5 mg/g
 1068 mg/pkg
 17.8 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	1.82	18.2	1051	17.5	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	0.0298	0.298	17.3	0.288	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	1.85	18.5	1068	17.8		

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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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	0.172	0.572	Imazailil	Pass	0.105	0.2	0.0221	0.0736
Acephate	Pass	ND	0.4	0.0134	0.0445	Imidacloprid	Pass	ND	0.4	0.0104	0.0347
Acequinocyl	Pass	ND	2	0.191	0.638	Kresoxim-methyl	Pass	ND	0.4	0.00921	0.0307
Acetamiprid	Pass	ND	0.2	0.0135	0.0449	Malathion	Pass	ND	0.2	0.00640	0.0213
Aldicarb	Pass	ND	0.4	0.0860	0.287	Metalaxyl	Pass	ND	0.2	0.00944	0.0315
Azoxystrobin	Pass	ND	0.2	0.0121	0.0404	Methiocarb	Pass	ND	0.2	0.00909	0.0303
Bifenazate	Pass	ND	0.2	0.00846	0.0282	Methomyl	Pass	ND	0.4	0.0136	0.0454
Bifenthrin	Pass	ND	0.2	0.0682	0.227	Methyl Parathion	Pass	ND	0.2	0.0151	0.0444
Boscalid	Pass	ND	0.4	0.0216	0.0721	MGK-264	Pass	ND	0.2	0.00202	0.00505
Carbaryl	Pass	ND	0.2	0.00809	0.0270	Myclobutanil	Pass	ND	0.2	0.0114	0.0380
Carbofuran	Pass	ND	0.2	0.00951	0.0317	Naled	Pass	ND	0.5	0.0204	0.0679
Chlorantraniliprole	Pass	ND	0.2	0.0148	0.0494	Oxamyl	Pass	ND	1	0.0192	0.0640
Chlorfenapyr	Pass	ND	1	0.0151	0.0444	Paclobutrazol	Pass	ND	0.4	0.0161	0.0538
Chlorpyrifos	Pass	ND	0.2	0.0138	0.0458	Permethrins	Pass	ND	0.2	0.0141	0.0414
Clofentezine	Pass	ND	0.2	0.0190	0.0633	Phosmet	Pass	ND	0.2	0.0143	0.0476
Cyfluthrin	Pass	ND	1	0.0232	0.0677	Piperonyl Butoxide	Pass	ND	2	0.00935	0.0312
Cypermethrin	Pass	ND	1	0.0232	0.0697	Prallethrin	Pass	ND	0.2	0.0310	0.103
Daminozide	Pass	ND	1	0.0277	0.0925	Propiconazole	Pass	ND	0.4	0.00665	0.0222
Diazinon	Pass	ND	0.1	0.00983	0.0327	Propoxur	Pass	ND	0.2	0.00730	0.0243
DDVP (Dichlorvos)	Pass	ND	0.2	0.0129	0.0431	Pyrethrins	Pass	ND	1	0.0103	0.0344
Dimethoate	Pass	ND	0.2	0.0136	0.0453	Pyridaben	Pass	ND	0.2	0.0156	0.0519
Ethoprophos	Pass	ND	0.2	0.0132	0.0440	Spinosad	Pass	ND	0.2	0.0176	0.0587
Etofenprox	Pass	ND	0.4	0.0187	0.0622	Spiromesifen	Pass	ND	0.2	0.0153	0.0510
Etoxazole	Pass	ND	0.2	0.0151	0.0502	Spirotetramat	Pass	ND	0.2	0.00744	0.0248
Fenoxycarb	Pass	ND	0.2	0.0120	0.0399	Spiroxamine	Pass	ND	0.4	0.0227	0.0757
Fenpyroximate	Pass	ND	0.4	0.00965	0.0322	Tebuconazole	Pass	ND	0.4	0.00676	0.0225
Fipronil	Pass	ND	0.4	0.0187	0.0624	Thiacloprid	Pass	ND	0.2	0.00793	0.0264
Flonicamid	Pass	ND	1	0.0239	0.0796	Thiamethoxam	Pass	ND	0.2	0.00794	0.0265
Fludioxonil	Pass	ND	0.4	0.0226	0.0755	Trifloxystrobin	Pass	ND	0.2	0.00976	0.0326
Hexythiazox	Pass	ND	1	0.00995	0.0332						

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	1.65	5.52
Cadmium	Pass	ND	200	0.540	1.80
Lead	Pass	ND	500	1.43	4.78
Mercury	Pass	< LOQ	100	0.885	2.95

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	13.7	45.8	Dimethyl Sulfoxide	Pass	ND	5000	11.9	39.6
1-Pentanol	Pass	ND	5000	22.9	76.3	Ethanol	Pass	ND	5000	16.6	55.5
1-Propanol	Pass	ND	5000	34.2	114	Ethyl Acetate	Pass	ND	5000	5.98	19.9
1,2-Dimethoxyethane	Pass	ND	100	18.3	61.1	Ethyl Ether	Pass	ND	5000	2.10	7.00
1,4-Dioxane	Pass	ND	380	17.8	59.4	Ethylene Glycol	Pass	ND	620	1.96	6.55
2-Butanol	Pass	ND	5000	17.4	57.9	Ethylene Oxide	Pass	ND	50	1.38	4.61
2-Butanone	Pass	ND	5000	9.61	32.0	Heptane	Pass	ND	5000	7.58	25.3
2-Ethoxyethanol	Pass	ND	160	12.8	42.8	n-Hexane	Pass	ND	290	2.19	7.29
2-Methylbutane	Pass	ND	5000	1.65	5.50	Isopropyl Acetate	Pass	ND	5000	10.4	34.7
2-Methylpentane	Pass	ND	290	1.96	6.54	Methanol	Pass	ND	3000	7.45	24.8
2-Propanol (IPA)	Pass	ND	5000	24.4	79.0	Methylpropane	Pass	ND	5000	1.99	6.62
2,2-Dimethylbutane	Pass	ND	290	3.67	12.2	N,N-Dimethylacetamide	Pass	ND	1090	13.9	46.4
2,3-Dimethylbutane	Pass	ND	290	1.59	5.32	N,N-Dimethylformamide	Pass	ND	880	18.8	62.8
3-Methylpentane	Pass	ND	290	2.03	6.76	Pentane	Pass	ND	5000	1.74	5.81
Acetone	Pass	ND	5000	38.4	128	Propane	Pass	ND	5000	1.97	6.58
Acetonitrile	Pass	ND	410	15.6	46.7	Pyridine	Pass	ND	200	11.5	38.3
Benzene	Pass	ND	2	0.350	1.17	Sulfolane	Pass	ND	160	6.93	23.1
Butane	Pass	ND	5000	1.57	5.25	Tetrahydrofuran	Pass	ND	720	8.11	27.0
Cumene	Pass	ND	70	6.83	22.8	Toluene	Pass	ND	890	18.1	60.4
Cyclohexane	Pass	ND	3880	4.17	13.9	Xylenes	Pass	ND	2170	24.9	83.2
Dichloromethane	Pass	ND	600	1.76	5.87						

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Page 4 of 4