



# Steep Hill Arkansas



Accreditation # 97338

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

## CERTIFICATE OF ANALYSIS

Sample Name: 3000mg Full Orange  
 Steep Hill ID: AR80326  
 Batch ID: 21  
 State ID:  
 Sample Type: Tincture  
 Date Received: 1/20/2020  
 Date Reported: 2/6/2020  
 Pkg. Volume: 60 mL  
 # of Servings: 60  
 Density: 0.964 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**  
 0.144 %  
 1.44 mg/g  
 83.1 mg/pkg  
 1.38 mg/serv

**Total CBD**  
 5.21 %  
 52.1 mg/g  
 3015 mg/pkg  
 50.3 mg/serv

**Total Cannabinoids**  
 5.36 %  
 53.6 mg/g  
 3098 mg/pkg  
 51.6 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	5.21	52.1	3015	50.3	0.0174	0.0579
CBDA	ND	ND	ND	ND	0.0474	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	0.144	1.44	83.1	1.38	0.0251	0.0837
delta-8-THC	NT	NT	NT	NT	NT	NT
THCA	ND	ND	ND	ND	0.0356	0.119
THCV	NT	NT	NT	NT	NT	NT
Total	5.36	53.6	3098	51.6		

### 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	0.161	0.538	Imazailil	Pass	0.110	0.2	0.0207	0.0691
Acephate	Pass	ND	0.4	0.0126	0.0418	Imidacloprid	Pass	ND	0.4	0.00977	0.0326
Acequinocyl	Pass	ND	2	0.180	0.599	Kresoxim-methyl	Pass	ND	0.4	0.00865	0.0289
Acetamiprid	Pass	ND	0.2	0.0127	0.0422	Malathion	Pass	ND	0.2	0.00602	0.0201
Aldicarb	Pass	ND	0.4	0.0808	0.269	Metalaxyl	Pass	ND	0.2	0.00887	0.0296
Azoxystrobin	Pass	ND	0.2	0.0114	0.0380	Methiocarb	Pass	ND	0.2	0.00854	0.0285
Bifenazate	Pass	ND	0.2	0.00795	0.0265	Methomyl	Pass	ND	0.4	0.0128	0.0426
Bifenthrin	Pass	ND	0.2	0.0641	0.214	Methyl Parathion	Pass	ND	0.2	0.0142	0.0417
Boscalid	Pass	ND	0.4	0.0203	0.0677	MGK-264	Pass	ND	0.2	0.00190	0.00474
Carbaryl	Pass	ND	0.2	0.00760	0.0253	Myclobutanil	Pass	ND	0.2	0.0107	0.0357
Carbofuran	Pass	ND	0.2	0.00894	0.0298	Naled	Pass	ND	0.5	0.0191	0.0638
Chlorantraniliprole	Pass	ND	0.2	0.0139	0.0464	Oxamyl	Pass	ND	1	0.0180	0.0601
Chlorfenapyr	Pass	ND	1	0.0142	0.0417	Paclobutrazol	Pass	ND	0.4	0.0152	0.0506
Chlorpyrifos	Pass	ND	0.2	0.0129	0.0431	Permethrins	Pass	ND	0.2	0.0133	0.0389
Clofentezine	Pass	ND	0.2	0.0178	0.0595	Phosmet	Pass	ND	0.2	0.0134	0.0447
Cyfluthrin	Pass	ND	1	0.0218	0.0636	Piperonyl Butoxide	Pass	ND	2	0.00879	0.0293
Cypermethrin	Pass	ND	1	0.0218	0.0655	Prallethrin	Pass	ND	0.2	0.0291	0.0969
Daminozide	Pass	ND	1	0.0261	0.0869	Propiconazole	Pass	ND	0.4	0.00625	0.0208
Diazinon	Pass	ND	0.1	0.00923	0.0308	Propoxur	Pass	ND	0.2	0.00686	0.0229
DDVP (Dichlorvos)	Pass	ND	0.2	0.0122	0.0405	Pyrethrins	Pass	ND	1	0.00969	0.0323
Dimethoate	Pass	ND	0.2	0.0128	0.0426	Pyridaben	Pass	ND	0.2	0.0146	0.0487
Ethoprophos	Pass	ND	0.2	0.0124	0.0413	Spinosad	Pass	ND	0.2	0.0166	0.0552
Etofenprox	Pass	ND	0.4	0.0175	0.0584	Spiromesifen	Pass	ND	0.2	0.0144	0.0479
Etoxazole	Pass	ND	0.2	0.0141	0.0472	Spirotetramat	Pass	ND	0.2	0.00699	0.0233
Fenoxycarb	Pass	ND	0.2	0.0113	0.0375	Spiroxamine	Pass	ND	0.4	0.0213	0.0711
Fenpyroximate	Pass	ND	0.4	0.00907	0.0302	Tebuconazole	Pass	ND	0.4	0.00635	0.0211
Fipronil	Pass	ND	0.4	0.0176	0.0587	Thiacloprid	Pass	ND	0.2	0.00745	0.0248
Flonicamid	Pass	ND	1	0.0224	0.0748	Thiamethoxam	Pass	ND	0.2	0.00746	0.0249
Fludioxonil	Pass	ND	0.4	0.0213	0.0709	Trifloxystrobin	Pass	ND	0.2	0.00918	0.0306
Hexythiazox	Pass	ND	1	0.00935	0.0312						

### 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	1.59	5.31
Cadmium	Pass	ND	200	0.520	1.73
Lead	Pass	ND	500	1.38	4.60
Mercury	Pass	< LOQ	100	0.851	2.84

### 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	13.8	45.9	Dimethyl Sulfoxide	Pass	ND	5000	11.9	39.7
1-Pentanol	Pass	ND	5000	22.9	76.5	Ethanol	Pass	ND	5000	16.7	55.5
1-Propanol	Pass	ND	5000	34.3	114	Ethyl Acetate	Pass	ND	5000	5.99	20.0
1,2-Dimethoxyethane	Pass	ND	100	18.4	61.2	Ethyl Ether	Pass	ND	5000	2.10	7.01
1,4-Dioxane	Pass	ND	380	17.9	59.5	Ethylene Glycol	Pass	ND	620	1.97	6.56
2-Butanol	Pass	ND	5000	17.4	58.0	Ethylene Oxide	Pass	ND	50	1.39	4.62
2-Butanone	Pass	ND	5000	9.63	32.1	Heptane	Pass	ND	5000	7.60	25.3
2-Ethoxyethanol	Pass	ND	160	12.8	42.8	n-Hexane	Pass	ND	290	2.19	7.30
2-Methylbutane	Pass	ND	5000	1.65	5.51	Isopropyl Acetate	Pass	ND	5000	10.4	34.7
2-Methylpentane	Pass	ND	290	1.96	6.55	Methanol	Pass	ND	3000	7.47	24.9
2-Propanol (IPA)	Pass	ND	5000	24.4	79.1	Methylpropane	Pass	ND	5000	1.99	6.63
2,2-Dimethylbutane	Pass	ND	290	3.68	12.3	N,N-Dimethylacetamide	Pass	ND	1090	13.9	46.5
2,3-Dimethylbutane	Pass	ND	290	1.60	5.32	N,N-Dimethylformamide	Pass	ND	880	18.9	62.9
3-Methylpentane	Pass	ND	290	2.03	6.77	Pentane	Pass	ND	5000	1.75	5.82
Acetone	Pass	ND	5000	38.5	128	Propane	Pass	ND	5000	1.98	6.59
Acetonitrile	Pass	ND	410	15.6	46.8	Pyridine	Pass	ND	200	11.5	38.4
Benzene	Pass	ND	2	0.351	1.17	Sulfolane	Pass	ND	160	6.94	23.1
Butane	Pass	ND	5000	1.58	5.26	Tetrahydrofuran	Pass	ND	720	8.12	27.1
Cumene	Pass	ND	70	6.84	22.8	Toluene	Pass	ND	890	18.1	60.5
Cyclohexane	Pass	ND	3880	4.18	13.9	Xylenes	Pass	ND	2170	25.0	83.3
Dichloromethane	Pass	ND	600	1.76	5.88						

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