



Steep Hill Arkansas



Accreditation # 97338

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

CERTIFICATE OF ANALYSIS

Sample Name: 1000mg Broad Orange
 Steep Hill ID: AR80327
 Batch ID: 24
 State ID:
 Sample Type: Tincture
 Date Received: 1/20/2020
 Date Reported: 2/6/2020
 Pkg. Volume: 60 mL
 # of Servings: 60
 Density: 0.976 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
 1.83 %
 18.3 mg/g
 1070 mg/pkg
 17.8 mg/serv

Total Cannabinoids
 1.83 %
 18.3 mg/g
 1070 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

1/23/2020

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	1.83	18.3	1070	17.8	0.0172	0.0572
CBDA	ND	ND	ND	ND	0.0468	0.156
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	0.0248	0.0827
delta-8-THC	NT	NT	NT	NT	NT	NT
THCA	ND	ND	ND	ND	0.0351	0.117
THCV	NT	NT	NT	NT	NT	NT
Total	1.83	18.3	1070	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	0.164	0.546	Imazailil	Pass	0.105	0.2	0.0211	0.0703
Acephate	Pass	ND	0.4	0.0128	0.0425	Imidacloprid	Pass	ND	0.4	0.00993	0.0331
Acequinocyl	Pass	ND	2	0.183	0.609	Kresoxim-methyl	Pass	ND	0.4	0.00880	0.0293
Acetamiprid	Pass	ND	0.2	0.0129	0.0429	Malathion	Pass	ND	0.2	0.00611	0.0204
Aldicarb	Pass	ND	0.4	0.0821	0.274	Metalaxyl	Pass	ND	0.2	0.00902	0.0301
Azoxystrobin	Pass	ND	0.2	0.0116	0.0386	Methiocarb	Pass	ND	0.2	0.00868	0.0289
Bifenazate	Pass	ND	0.2	0.00808	0.0269	Methomyl	Pass	ND	0.4	0.0130	0.0433
Bifenthrin	Pass	ND	0.2	0.0651	0.217	Methyl Parathion	Pass	ND	0.2	0.0145	0.0424
Boscalid	Pass	ND	0.4	0.0207	0.0688	MGK-264	Pass	ND	0.2	0.00193	0.00482
Carbaryl	Pass	ND	0.2	0.00773	0.0258	Myclobutanil	Pass	ND	0.2	0.0109	0.0363
Carbofuran	Pass	ND	0.2	0.00909	0.0303	Naled	Pass	ND	0.5	0.0195	0.0648
Chlorantraniliprole	Pass	ND	0.2	0.0141	0.0472	Oxamyl	Pass	ND	1	0.0183	0.0611
Chlorfenapyr	Pass	ND	1	0.0145	0.0424	Paclobutrazol	Pass	ND	0.4	0.0154	0.0514
Chlorpyrifos	Pass	ND	0.2	0.0131	0.0438	Permethrins	Pass	ND	0.2	0.0135	0.0395
Clofentezine	Pass	ND	0.2	0.0181	0.0605	Phosmet	Pass	ND	0.2	0.0136	0.0454
Cyfluthrin	Pass	ND	1	0.0222	0.0646	Piperonyl Butoxide	Pass	ND	2	0.00893	0.0298
Cypermethrin	Pass	ND	1	0.0222	0.0666	Prallethrin	Pass	ND	0.2	0.0296	0.0985
Daminozide	Pass	ND	1	0.0265	0.0883	Propiconazole	Pass	ND	0.4	0.00636	0.0212
Diazinon	Pass	ND	0.1	0.00938	0.0313	Propoxur	Pass	ND	0.2	0.00697	0.0232
DDVP (Dichlorvos)	Pass	ND	0.2	0.0124	0.0412	Pyrethrins	Pass	ND	1	0.00985	0.0328
Dimethoate	Pass	ND	0.2	0.0130	0.0433	Pyridaben	Pass	ND	0.2	0.0149	0.0495
Ethoprophos	Pass	ND	0.2	0.0126	0.0420	Spinosad	Pass	ND	0.2	0.0168	0.0561
Etofenprox	Pass	ND	0.4	0.0178	0.0594	Spiromesifen	Pass	ND	0.2	0.0146	0.0487
Etoxazole	Pass	ND	0.2	0.0144	0.0479	Spirotetramat	Pass	ND	0.2	0.00711	0.0237
Fenoxycarb	Pass	ND	0.2	0.0114	0.0381	Spiroxamine	Pass	ND	0.4	0.0217	0.0723
Fenpyroximate	Pass	ND	0.4	0.00922	0.0307	Tebuconazole	Pass	ND	0.4	0.00645	0.0215
Fipronil	Pass	ND	0.4	0.0179	0.0596	Thiacloprid	Pass	ND	0.2	0.00757	0.0252
Flonicamid	Pass	ND	1	0.0228	0.0761	Thiamethoxam	Pass	ND	0.2	0.00758	0.0253
Fludioxonil	Pass	ND	0.4	0.0216	0.0721	Trifloxystrobin	Pass	ND	0.2	0.00933	0.0311
Hexythiazox	Pass	ND	1	0.00950	0.0317						

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	1.74
Lead	Pass	ND	500	1.38	4.60
Mercury	Pass	< LOQ	100	0.853	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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Pharm D. Co-Owner & CEO
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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	16.4	54.7	Dimethyl Sulfoxide	Pass	ND	5000	14.2	47.3
1-Pentanol	Pass	ND	5000	27.4	91.2	Ethanol	Pass	ND	5000	19.9	66.2
1-Propanol	Pass	ND	5000	40.9	136	Ethyl Acetate	Pass	ND	5000	7.15	23.8
1,2-Dimethoxyethane	Pass	ND	100	21.9	73.0	Ethyl Ether	Pass	ND	5000	2.51	8.36
1,4-Dioxane	Pass	ND	380	21.3	71.0	Ethylene Glycol	Pass	ND	620	2.35	7.82
2-Butanol	Pass	ND	5000	20.7	69.1	Ethylene Oxide	Pass	ND	50	1.65	5.51
2-Butanone	Pass	ND	5000	11.5	38.3	Heptane	Pass	ND	5000	9.06	30.2
2-Ethoxyethanol	Pass	ND	160	15.3	51.1	n-Hexane	Pass	ND	290	2.61	8.71
2-Methylbutane	Pass	ND	5000	1.97	6.57	Isopropyl Acetate	Pass	ND	5000	12.4	41.4
2-Methylpentane	Pass	ND	290	2.34	7.81	Methanol	Pass	ND	3000	8.91	29.7
2-Propanol (IPA)	Pass	ND	5000	29.1	94.4	Methylpropane	Pass	ND	5000	2.37	7.91
2,2-Dimethylbutane	Pass	ND	290	4.38	14.6	N,N-Dimethylacetamide	Pass	ND	1090	16.6	55.4
2,3-Dimethylbutane	Pass	ND	290	1.91	6.35	N,N-Dimethylformamide	Pass	ND	880	22.5	75.1
3-Methylpentane	Pass	ND	290	2.42	8.08	Pentane	Pass	ND	5000	2.08	6.94
Acetone	Pass	ND	5000	45.9	153	Propane	Pass	ND	5000	2.36	7.86
Acetonitrile	Pass	ND	410	18.6	55.8	Pyridine	Pass	ND	200	13.7	45.8
Benzene	Pass	ND	2	0.418	1.39	Sulfolane	Pass	ND	160	8.28	27.6
Butane	Pass	ND	5000	1.88	6.27	Tetrahydrofuran	Pass	ND	720	9.68	32.3
Cumene	Pass	ND	70	8.16	27.2	Toluene	Pass	ND	890	21.6	72.1
Cyclohexane	Pass	ND	3880	4.99	16.6	Xylenes	Pass	ND	2170	29.8	99.4
Dichloromethane	Pass	ND	600	2.10	7.01						

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Page 4 of 4