



Steep Hill Arkansas

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

CERTIFICATE OF ANALYSIS

Sample Name: 100mg FS 4mL Dropper
 Steep Hill ID: AR79800
 Batch ID: 0001DFS2020
 State ID:
 Sample Type: Tincture
 Date Received: 1/9/2020
 Date Reported: 3/19/2020
 Pkg. Volume: 4 mL
 # of Servings: 4
 Density: 0.978 g/mL

Customer: **New Age Hemp LLC**
4931 Central Ave
Hot Springs, AR 71913

OVERALL BATCH SUMMARY: **PASS**

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



Total THC
 0.0788 %
 0.788 mg/g
 3.08 mg/pkg
 0.771 mg/serv

Total CBD
 2.69 %
 26.9 mg/g
 105 mg/pkg
 26.3 mg/serv

Total Cannabinoids
 2.77 %
 27.7 mg/g
 108 mg/pkg
 27.1 mg/serv

Brandon Thornton
 Pharm D. Co-Owner & CEO
 Date: 3/19/2020

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CERTIFICATE OF ANALYSIS

Cannabinoid Results

3/19/2020

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	2.69	26.9	105	26.3	0.0225	0.0750
CBDA	< LOQ	< LOQ	< LOQ	< LOQ	0.0614	0.205
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	0.0788	0.788	3.08	0.771	0.0325	0.108
delta-8-THC	NT	NT	NT	NT	NT	NT
THCA	ND	ND	ND	ND	0.0461	0.154
THCV	NT	NT	NT	NT	NT	NT
Total	2.77	27.7	108	27.1		

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
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

Moisture Results

NT

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

Analyte	Pass/Fail	%	Limit
Moisture	NT	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

Brandon Thornton
Pharm D. Co-Owner & CEO
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CERTIFICATE OF ANALYSIS

Residual Pesticides Results

Pass

1/12/2020

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	0.167	0.556	Imazailil	Pass	ND	0.2	0.0215	0.0715
Acephate	Pass	ND	0.4	0.0130	0.0433	Imidacloprid	Pass	ND	0.4	0.0101	0.0337
Acequinocyl	Pass	ND	2	0.186	0.620	Kresoxim-methyl	Pass	ND	0.4	0.00895	0.0298
Acetamiprid	Pass	ND	0.2	0.0131	0.0437	Malathion	Pass	ND	0.2	0.00622	0.0207
Aldicarb	Pass	ND	0.4	0.0836	0.279	Metalaxyl	Pass	ND	0.2	0.00918	0.0306
Azoxystrobin	Pass	ND	0.2	0.0118	0.0393	Methiocarb	Pass	ND	0.2	0.00883	0.0295
Bifenazate	Pass	ND	0.2	0.00822	0.0274	Methomyl	Pass	ND	0.4	0.0132	0.0441
Bifenthrin	Pass	ND	0.2	0.0663	0.221	Methyl Parathion	Pass	ND	0.2	0.0147	0.0432
Boscalid	Pass	ND	0.4	0.0210	0.0700	MGK-264	Pass	ND	0.2	0.00196	0.00491
Carbaryl	Pass	ND	0.2	0.00786	0.0262	Myclobutanil	Pass	ND	0.2	0.0111	0.0369
Carbofuran	Pass	ND	0.2	0.00925	0.0308	Naled	Pass	ND	0.5	0.0198	0.0660
Chlorantraniliprole	Pass	ND	0.2	0.0144	0.0480	Oxamyl	Pass	ND	1	0.0187	0.0622
Chlorfenapyr	Pass	ND	1	0.0147	0.0432	Paclobutrazol	Pass	ND	0.4	0.0157	0.0523
Chlorpyrifos	Pass	ND	0.2	0.0134	0.0446	Permethrins	Pass	ND	0.2	0.0137	0.0402
Clofentezine	Pass	ND	0.2	0.0185	0.0615	Phosmet	Pass	ND	0.2	0.0139	0.0462
Cyfluthrin	Pass	ND	1	0.0226	0.0658	Piperonyl Butoxide	Pass	ND	2	0.00909	0.0303
Cypermethrin	Pass	ND	1	0.0226	0.0677	Prallethrin	Pass	ND	0.2	0.0301	0.100
Daminozide	Pass	ND	1	0.0270	0.0899	Propiconazole	Pass	ND	0.4	0.00647	0.0216
Diazinon	Pass	ND	0.2	0.00955	0.0318	Propoxur	Pass	ND	0.2	0.00710	0.0237
DDVP (Dichlorvos)	Pass	ND	0.1	0.0126	0.0419	Pyrethrins	Pass	ND	1	0.0100	0.0334
Dimethoate	Pass	ND	0.2	0.0132	0.0440	Pyridaben	Pass	ND	0.2	0.0151	0.0504
Ethoprophos	Pass	ND	0.2	0.0128	0.0427	Spinosad	Pass	ND	0.2	0.0171	0.0571
Etofenprox	Pass	ND	0.4	0.0181	0.0604	Spiromesifen	Pass	ND	0.2	0.0149	0.0496
Etoxazole	Pass	ND	0.2	0.0146	0.0488	Spirotetramat	Pass	ND	0.2	0.00723	0.0241
Fenoxycarb	Pass	ND	0.2	0.0116	0.0388	Spiroxamine	Pass	ND	0.4	0.0221	0.0736
Fenpyroximate	Pass	ND	0.4	0.00938	0.0313	Tebuconazole	Pass	ND	0.4	0.00657	0.0219
Fipronil	Pass	ND	0.4	0.0182	0.0607	Thiacloprid	Pass	ND	0.2	0.00770	0.0257
Flonicamid	Pass	ND	1	0.0232	0.0774	Thiamethoxam	Pass	ND	0.2	0.00771	0.0257
Fludioxonil	Pass	ND	0.4	0.0220	0.0734	Trifloxystrobin	Pass	ND	0.2	0.00949	0.0316
Hexythiazox	Pass	ND	1	0.00967	0.0322						

Heavy Metals Results

Pass

1/13/2020

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	< LOQ	200	1.66	5.53
Cadmium	Pass	< LOQ	200	0.541	1.81
Lead	Pass	< LOQ	500	1.44	4.79
Mercury	Pass	< LOQ	100	0.887	2.96

Microbial Impurities Results

Pass

1/11/2020

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

1/10/2020

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	15.0	50.2	Dimethyl Sulfoxide	Pass	ND	5000	13.0	43.4
1-Pentanol	Pass	ND	5000	25.1	83.6	Ethanol	Pass	ND	5000	18.2	60.8
1-Propanol	Pass	ND	5000	37.5	125	Ethyl Acetate	Pass	ND	5000	6.55	21.8
1,2-Dimethoxyethane	Pass	ND	100	20.1	67.0	Ethyl Ether	Pass	ND	5000	2.30	7.67
1,4-Dioxane	Pass	ND	380	19.5	65.1	Ethylene Glycol	Pass	ND	620	2.15	7.17
2-Butanol	Pass	ND	5000	19.0	63.4	Ethylene Oxide	Pass	ND	50	1.52	5.05
2-Butanone	Pass	ND	5000	10.5	35.1	n-Heptane	Pass	ND	5000	8.31	27.7
2-Ethoxyethanol	Pass	ND	160	14.1	46.8	n-Hexane	Pass	ND	290	2.40	7.99
2-Methylbutane	Pass	ND	5000	1.81	6.03	Isopropyl Acetate	Pass	ND	5000	11.4	38.0
2-Methylpentane	Pass	ND	290	2.15	7.16	Methanol	Pass	ND	3000	8.17	27.2
2-Propanol (IPA)	Pass	ND	5000	26.7	86.5	Methylpropane	Pass	ND	5000	2.18	7.25
2,2-Dimethylbutane	Pass	ND	290	4.02	13.4	N,N-Dimethylacetamide	Pass	ND	1090	15.2	50.8
2,3-Dimethylbutane	Pass	ND	290	1.75	5.82	N,N-Dimethylformamide	Pass	ND	880	20.7	68.8
3-Methylpentane	Pass	ND	290	2.22	7.41	n-Pentane	Pass	ND	5000	1.91	6.37
Acetone	Pass	ND	5000	42.1	140	Propane	Pass	ND	5000	2.16	7.21
Acetonitrile	Pass	ND	410	17.1	51.2	Pyridine	Pass	ND	200	12.6	42.0
Benzene	Pass	ND	2	0.384	1.28	Sulfolane	Pass	ND	160	7.59	25.3
n-Butane	Pass	ND	5000	1.72	5.75	Tetrahydrofuran	Pass	ND	720	8.88	29.6
Cumene	Pass	ND	70	7.48	24.9	Toluene	Pass	ND	890	19.8	66.1
Cyclohexane	Pass	ND	3880	4.57	15.2	Xylenes	Pass	ND	2170	27.3	91.1
Dichloromethane	Pass	ND	600	1.93	6.43						

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