



Steep Hill Arkansas

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

CERTIFICATE OF ANALYSIS

Sample Name: 25mg Soft Gel 5 count
 Steep Hill ID: AR83514
 Batch ID:
 State ID:
 Sample Type: Capsule
 Date Received: 3/16/2020
 Date Reported: 3/22/2020
 Pkg. Mass: 3.25 g
 # of Servings:
 Capsule Mass: 0.650 g

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
 Not Detected
 Not Detected
 Not Detected
 Not Detected

Total CBD
 4.15 %
 41.5 mg/g
 135 mg/pkg
 27.0 mg/capsule

Total Cannabinoids
 4.15 %
 41.5 mg/g
 135 mg/pkg
 27.0 mg/capsule

Brandon Thornton
 Pharm D. Co-Owner & CEO
 Date: 3/22/2020

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Cannabinoid Results

3/17/2020

Standard potency analysis utilizing Ultra High Performance Liquid Chromatography (UHPLC; SOP-068-AR)

Analyte	%	mg/g	mg/pkg	mg/capsule	LOD mg/g	LOQ mg/g
CBC	NT	NT	NT	NT	NT	NT
CBD	4.15	41.5	135	27.0	0.0257	0.0855
CBDA	ND	ND	ND	ND	0.0700	0.233
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	0.0371	0.124
delta-8-THC	NT	NT	NT	NT	NT	NT
THCA	ND	ND	ND	ND	0.0525	0.175
THCV	NT	NT	NT	NT	NT	NT
Total	4.15	41.5	135	27.0		

Terpenoid Results

NT

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

Analyte	%	mg/g	LOD mg/g	LOQ mg/g	Analyte	%	mg/g	LOD mg/g	LOQ mg/g
α-Bisabolol	NT	NT	NT	NT	Linalool	NT	NT	NT	NT
endo-Borneol	NT	NT	NT	NT	Menthol	NT	NT	NT	NT
Camphene	NT	NT	NT	NT	β-Myrcene	NT	NT	NT	NT
Camphor	NT	NT	NT	NT	Nerol	NT	NT	NT	NT
3-Carene	NT	NT	NT	NT	cis-Nerolidol	NT	NT	NT	NT
Caryophyllene Oxide	NT	NT	NT	NT	trans-Nerolidol	NT	NT	NT	NT
β-Caryophyllene	NT	NT	NT	NT	cis-β-Ocimene	NT	NT	NT	NT
α-Cedrene	NT	NT	NT	NT	trans-β-Ocimene	NT	NT	NT	NT
Cedrol	NT	NT	NT	NT	α-Phellandrene	NT	NT	NT	NT
Eucalyptol	NT	NT	NT	NT	α-Pinene	NT	NT	NT	NT
β-Farnesene	NT	NT	NT	NT	β-Pinene	NT	NT	NT	NT
Fenchol	NT	NT	NT	NT	Pulegone	NT	NT	NT	NT
Fenchone	NT	NT	NT	NT	Sabinene	NT	NT	NT	NT
Geraniol	NT	NT	NT	NT	Sabinene Hydrate	NT	NT	NT	NT
Geranyl Acetate	NT	NT	NT	NT	α-Terpinene	NT	NT	NT	NT
Guaiol	NT	NT	NT	NT	γ-Terpinene	NT	NT	NT	NT
α-Humulene	NT	NT	NT	NT	Terpineol	NT	NT	NT	NT
Isoborneol	NT	NT	NT	NT	Terpinolene	NT	NT	NT	NT
Isopulegol	NT	NT	NT	NT	Valencene	NT	NT	NT	NT
Limonene	NT	NT	NT	NT	Total	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

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Pharm D. Co-Owner & CEO
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Residual Pesticides Results

Pass

3/20/2020

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	0.260	0.867	Imazail	Pass	ND	0.2	0.0335	0.112
Acephate	Pass	ND	0.4	0.0202	0.0675	Imidacloprid	Pass	ND	0.4	0.0158	0.0525
Acequinocyl	Pass	ND	2	0.290	0.967	Kresoxim-methyl	Pass	ND	0.4	0.0140	0.0465
Acetamiprid	Pass	ND	0.2	0.0204	0.0681	Malathion	Pass	ND	0.2	0.00970	0.0324
Aldicarb	Pass	ND	0.4	0.130	0.434	Metalaxyl	Pass	ND	0.2	0.0143	0.0477
Azoxystrobin	Pass	ND	0.2	0.0184	0.0613	Methiocarb	Pass	ND	0.2	0.0138	0.0459
Bifenazate	Pass	ND	0.2	0.0128	0.0428	Methomyl	Pass	ND	0.4	0.0206	0.0688
Bifenthrin	Pass	ND	0.2	0.103	0.344	Methyl Parathion	Pass	ND	0.2	0.0230	0.0673
Boscalid	Pass	ND	0.4	0.0328	0.109	MGK-264	Pass	ND	0.2	0.00306	0.00765
Carbaryl	Pass	ND	0.2	0.0123	0.0409	Myclobutanil	Pass	ND	0.2	0.0173	0.0576
Carbofuran	Pass	ND	0.2	0.0144	0.0480	Naled	Pass	ND	0.5	0.0309	0.103
Chlorantraniliprole	Pass	ND	0.2	0.0225	0.0748	Oxamyl	Pass	ND	1	0.0291	0.0970
Chlorfenapyr	Pass	ND	1	0.0230	0.0673	Paclobutrazol	Pass	ND	0.4	0.0245	0.0815
Chlorpyrifos	Pass	ND	0.2	0.0208	0.0695	Permethrins	Pass	ND	0.2	0.0214	0.0627
Clofentezine	Pass	ND	0.2	0.0288	0.0960	Phosmet	Pass	ND	0.2	0.0216	0.0721
Cyfluthrin	Pass	ND	1	0.0352	0.103	Piperonyl Butoxide	Pass	ND	2	0.0142	0.0472
Cypermethrin	Pass	ND	1	0.0352	0.106	Prallethrin	Pass	ND	0.2	0.0469	0.156
Daminozide	Pass	ND	1	0.0420	0.140	Propiconazole	Pass	ND	0.4	0.0101	0.0336
Diazinon	Pass	ND	0.2	0.0149	0.0496	Propoxur	Pass	ND	0.2	0.0111	0.0369
DDVP (Dichlorvos)	Pass	ND	0.1	0.0196	0.0654	Pyrethrins	Pass	ND	1	0.0156	0.0521
Dimethoate	Pass	ND	0.2	0.0206	0.0687	Pyridaben	Pass	ND	0.2	0.0236	0.0786
Ethoprophos	Pass	ND	0.2	0.0200	0.0666	Spinosad	Pass	ND	0.2	0.0267	0.0890
Etofenprox	Pass	ND	0.4	0.0283	0.0943	Spiromesifen	Pass	ND	0.2	0.0232	0.0773
Etoxazole	Pass	ND	0.2	0.0228	0.0761	Spirotetramat	Pass	ND	0.2	0.0113	0.0376
Fenoxycarb	Pass	ND	0.2	0.0182	0.0605	Spiroxamine	Pass	ND	0.4	0.0344	0.115
Fenpyroximate	Pass	ND	0.4	0.0146	0.0487	Tebuconazole	Pass	ND	0.4	0.0102	0.0341
Fipronil	Pass	ND	0.4	0.0284	0.0946	Thiacloprid	Pass	ND	0.2	0.0120	0.0401
Flonicamid	Pass	ND	1	0.0362	0.121	Thiamethoxam	Pass	ND	0.2	0.0120	0.0401
Fludioxonil	Pass	ND	0.4	0.0343	0.114	Trifloxystrobin	Pass	ND	0.2	0.0148	0.0493
Hexythiazox	Pass	ND	1	0.0151	0.0503						

Heavy Metals Results

Pass

3/22/2020

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	1.29	4.30
Cadmium	Pass	1.58	200	0.422	1.41
Lead	Pass	ND	500	1.12	3.73
Mercury	Pass	4.19	100	0.691	2.30

Microbial Impurities Results

Pass

3/17/2020

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

Brandon Thornton
Pharm D. Co-Owner & CEO
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Residual Solvents Results

Pass

3/20/2020

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	12.4	41.2	Dimethyl Sulfoxide	Pass	ND	5000	10.7	35.7
1-Pentanol	Pass	ND	5000	20.6	68.7	Ethanol	Pass	ND	5000	15.0	49.9
1-Propanol	Pass	ND	5000	30.8	103	Ethyl Acetate	Pass	ND	5000	5.38	17.9
1,2-Dimethoxyethane	Pass	ND	100	16.5	55.0	Ethyl Ether	Pass	ND	5000	1.89	6.30
1,4-Dioxane	Pass	ND	380	16.0	53.5	Ethylene Glycol	Pass	ND	620	1.77	5.89
2-Butanol	Pass	ND	5000	15.6	52.1	Ethylene Oxide	Pass	ND	50	1.25	4.15
2-Butanone	Pass	ND	5000	8.65	28.8	n-Heptane	Pass	ND	5000	6.83	22.8
2-Ethoxyethanol	Pass	ND	160	11.5	38.5	n-Hexane	Pass	ND	290	1.97	6.56
2-Methylbutane	Pass	ND	5000	1.49	4.95	Isopropyl Acetate	Pass	ND	5000	9.36	31.2
2-Methylpentane	Pass	ND	290	1.77	5.89	Methanol	Pass	ND	3000	6.71	22.4
2-Propanol (IPA)	Pass	ND	5000	22.0	71.1	Methylpropane	Pass	ND	5000	1.79	5.96
2,2-Dimethylbutane	Pass	ND	290	3.30	11.0	N,N-Dimethylacetamide	Pass	ND	1090	12.5	41.7
2,3-Dimethylbutane	Pass	ND	290	1.44	4.78	N,N-Dimethylformamide	Pass	ND	880	17.0	56.6
3-Methylpentane	Pass	ND	290	1.83	6.09	n-Pentane	Pass	ND	5000	1.57	5.23
Acetone	Pass	ND	5000	34.6	115	Propane	Pass	ND	5000	1.78	5.92
Acetonitrile	Pass	ND	410	14.0	42.1	Pyridine	Pass	ND	200	10.3	34.5
Benzene	Pass	ND	2	0.315	1.05	Sulfolane	Pass	ND	160	6.24	20.8
n-Butane	Pass	ND	5000	1.42	4.72	Tetrahydrofuran	Pass	ND	720	7.30	24.3
Cumene	Pass	ND	70	6.14	20.5	Toluene	Pass	ND	890	16.3	54.3
Cyclohexane	Pass	ND	3880	3.76	12.5	Xylenes	Pass	ND	2170	22.5	74.9
Dichloromethane	Pass	ND	600	1.58	5.28						

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