



Steep Hill Arkansas

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

CERTIFICATE OF ANALYSIS

Sample Name: 600mg CBD Salve
 Steep Hill ID: AR84473
 Batch ID: lot #47
 State ID:
 Sample Type: Topical
 Date Received: 4/10/2020
 Date Reported: 4/21/2020
 Pkg. Mass: 56.7 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

Total CBD
 1.10 %
 11.0 mg/g
 622 mg/pkg

Total Cannabinoids
 1.10 %
 11.0 mg/g
 622 mg/pkg

Brandon Thornton
 Pharm D. Co-Owner & CEO
 Date: 4/21/2020

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Cannabinoid Results

4/18/2020

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

Analyte	%	mg/g	mg/pkg	LOD mg/g	LOQ mg/g
CBC	NT	NT	NT	NT	NT
CBD	1.10	11.0	622	0.00147	0.00491
CBDA	ND	ND	ND	0.00402	0.0134
CBDV	NT	NT	NT	NT	NT
CBG	NT	NT	NT	NT	NT
CBGA	NT	NT	NT	NT	NT
CBN	NT	NT	NT	NT	NT
THC	ND	ND	ND	0.00213	0.00710
delta-8-THC	NT	NT	NT	NT	NT
THCA	ND	ND	ND	0.00302	0.0101
THCV	NT	NT	NT	NT	NT
Total	1.10	11.0	622		

Terpenoid Results

NT

Standard terpene analysis utilizing Gas Chromatography – Mass Spectrometry (GC-MS; SOP-069-AR)
This method is not included in our ISO accreditation scope.

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

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

4/15/2020

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	0.155	0.517	Imazail	Pass	ND	0.2	0.0199	0.0665
Acephate	Pass	ND	0.4	0.0121	0.0402	Imidacloprid	Pass	ND	0.4	0.00939	0.0313
Acequinocyl	Pass	ND	2	0.173	0.576	Kresoxim-methyl	Pass	ND	0.4	0.00832	0.0277
Acetamiprid	Pass	ND	0.2	0.0122	0.0406	Malathion	Pass	ND	0.2	0.00578	0.0193
Aldicarb	Pass	ND	0.4	0.0777	0.259	Metalaxyl	Pass	ND	0.2	0.00853	0.0284
Azoxystrobin	Pass	ND	0.2	0.0110	0.0365	Methiocarb	Pass	ND	0.2	0.00821	0.0274
Bifenazate	Pass	ND	0.2	0.00764	0.0255	Methomyl	Pass	ND	0.4	0.0123	0.0410
Bifenthrin	Pass	ND	0.2	0.0616	0.205	Methyl Parathion	Pass	ND	0.2	0.0137	0.0401
Boscalid	Pass	ND	0.4	0.0195	0.0651	MGK-264	Pass	ND	0.2	0.00182	0.00456
Carbaryl	Pass	ND	0.2	0.00731	0.0244	Myclobutanil	Pass	ND	0.2	0.0103	0.0343
Carbofuran	Pass	ND	0.2	0.00859	0.0286	Naled	Pass	ND	0.5	0.0184	0.0613
Chlorantraniliprole	Pass	ND	0.2	0.0134	0.0446	Oxamyl	Pass	ND	1	0.0173	0.0578
Chlorfenapyr	Pass	ND	1	0.0137	0.0401	Paclobutrazol	Pass	ND	0.4	0.0146	0.0486
Chlorpyrifos	Pass	ND	0.2	0.0124	0.0414	Permethrins	Pass	ND	0.2	0.0128	0.0374
Clofentezine	Pass	ND	0.2	0.0172	0.0572	Phosmet	Pass	ND	0.2	0.0129	0.0429
Cyfluthrin	Pass	ND	1	0.0210	0.0611	Piperonyl Butoxide	Pass	ND	2	0.00845	0.0281
Cypermethrin	Pass	ND	1	0.0210	0.0629	Prallethrin	Pass	ND	0.2	0.0280	0.0932
Daminozide	Pass	ND	1	0.0251	0.0835	Propiconazole	Pass	ND	0.4	0.00601	0.0200
Diazinon	Pass	ND	0.2	0.00887	0.0296	Propoxur	Pass	ND	0.2	0.00659	0.0220
DDVP (Dichlorvos)	Pass	ND	0.1	0.0117	0.0390	Pyrethrins	Pass	ND	1	0.00931	0.0311
Dimethoate	Pass	ND	0.2	0.0123	0.0409	Pyridaben	Pass	ND	0.2	0.0141	0.0468
Ethoprophos	Pass	ND	0.2	0.0119	0.0397	Spinosad	Pass	ND	0.2	0.0159	0.0531
Etofenprox	Pass	ND	0.4	0.0169	0.0562	Spiromesifen	Pass	ND	0.2	0.0138	0.0461
Etoxazole	Pass	ND	0.2	0.0136	0.0453	Spirotetramat	Pass	ND	0.2	0.00672	0.0224
Fenoxycarb	Pass	ND	0.2	0.0108	0.0360	Spiroxamine	Pass	ND	0.4	0.0205	0.0684
Fenpyroximate	Pass	ND	0.4	0.00872	0.0290	Tebuconazole	Pass	ND	0.4	0.00610	0.0203
Fipronil	Pass	ND	0.4	0.0169	0.0564	Thiacloprid	Pass	ND	0.2	0.00716	0.0239
Flonicamid	Pass	ND	1	0.0216	0.0719	Thiamethoxam	Pass	ND	0.2	0.00717	0.0239
Fludioxonil	Pass	ND	0.4	0.0204	0.0682	Trifloxystrobin	Pass	ND	0.2	0.00882	0.0294
Hexythiazox	Pass	ND	1	0.00898	0.0299						

Heavy Metals Results

Pass

4/21/2020

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	8.16	200	1.49	4.97
Cadmium	Pass	1.63	200	0.486	1.62
Lead	Pass	< LOQ	500	1.29	4.30
Mercury	Pass	ND	100	0.797	2.66

Microbial Impurities Results

Pass

4/16/2020

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

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	

Brandon Thornton
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CERTIFICATE OF ANALYSIS

Residual Solvents Results

Pass

4/14/2020

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	13.1	43.6	Dimethyl Sulfoxide	Pass	ND	5000	11.3	37.8
1-Pentanol	Pass	ND	5000	21.8	72.7	Ethanol	Pass	ND	5000	15.8	52.8
1-Propanol	Pass	ND	5000	32.6	109	Ethyl Acetate	Pass	ND	5000	5.70	19.0
1,2-Dimethoxyethane	Pass	ND	100	17.5	58.2	Ethyl Ether	Pass	ND	5000	2.00	6.67
1,4-Dioxane	Pass	ND	380	17.0	56.6	Ethylene Glycol	Pass	ND	620	1.87	6.24
2-Butanol	Pass	ND	5000	16.5	55.1	Ethylene Oxide	Pass	ND	50	1.32	4.39
2-Butanone	Pass	ND	5000	9.16	30.5	n-Heptane	Pass	ND	5000	7.22	24.1
2-Ethoxyethanol	Pass	ND	160	12.2	40.7	n-Hexane	Pass	ND	290	2.08	6.94
2-Methylbutane	Pass	ND	5000	1.57	5.24	Isopropyl Acetate	Pass	ND	5000	9.91	33.0
2-Methylpentane	Pass	ND	290	1.87	6.23	Methanol	Pass	ND	3000	7.10	23.7
2-Propanol (IPA)	Pass	ND	5000	23.2	75.3	Methylpropane	Pass	ND	5000	1.89	6.31
2,2-Dimethylbutane	Pass	ND	290	3.50	11.7	N,N-Dimethylacetamide	Pass	ND	1090	13.3	44.2
2,3-Dimethylbutane	Pass	ND	290	1.52	5.06	N,N-Dimethylformamide	Pass	ND	880	18.0	59.9
3-Methylpentane	Pass	ND	290	1.93	6.44	n-Pentane	Pass	ND	5000	1.66	5.54
Acetone	Pass	ND	5000	36.6	122	Propane	Pass	ND	5000	1.88	6.27
Acetonitrile	Pass	ND	410	14.8	44.5	Pyridine	Pass	ND	200	10.9	36.5
Benzene	Pass	ND	2	0.333	1.11	Sulfolane	Pass	ND	160	6.60	22.0
n-Butane	Pass	ND	5000	1.50	5.00	Tetrahydrofuran	Pass	ND	720	7.72	25.7
Cumene	Pass	ND	70	6.50	21.7	Toluene	Pass	ND	890	17.2	57.5
Cyclohexane	Pass	ND	3880	3.98	13.3	Xylenes	Pass	ND	2170	23.8	79.2
Dichloromethane	Pass	ND	600	1.68	5.59						

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