



Steep Hill Arkansas

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

CERTIFICATE OF ANALYSIS

Sample Name: 300mg CBD Sport Cream
 Steep Hill ID: AR84471
 Batch ID: lot #44
 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
 0.575 %
 5.75 mg/g
 326 mg/pkg

Total Cannabinoids
 0.575 %
 5.75 mg/g
 326 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	0.575	5.75	326	0.00157	0.00523
CBDA	ND	ND	ND	0.00428	0.0143
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	0.00227	0.00756
delta-8-THC	NT	NT	NT	NT	NT
THCA	ND	ND	ND	0.00321	0.0107
THCV	NT	NT	NT	NT	NT
Total	0.575	5.75	326		

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
Date: 4/21/2020

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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	0.170	0.566	Imazail	Pass	ND	0.2	0.0218	0.0728
Acephate	Pass	ND	0.4	0.0132	0.0441	Imidacloprid	Pass	ND	0.4	0.0103	0.0343
Acequinocyl	Pass	ND	2	0.189	0.631	Kresoxim-methyl	Pass	ND	0.4	0.00911	0.0304
Acetamiprid	Pass	ND	0.2	0.0133	0.0445	Malathion	Pass	ND	0.2	0.00634	0.0211
Aldicarb	Pass	ND	0.4	0.0851	0.284	Metalaxyl	Pass	ND	0.2	0.00934	0.0311
Azoxystrobin	Pass	ND	0.2	0.0120	0.0400	Methiocarb	Pass	ND	0.2	0.00899	0.0300
Bifenazate	Pass	ND	0.2	0.00837	0.0279	Methomyl	Pass	ND	0.4	0.0135	0.0449
Bifenthrin	Pass	ND	0.2	0.0675	0.225	Methyl Parathion	Pass	ND	0.2	0.0150	0.0440
Boscalid	Pass	ND	0.4	0.0214	0.0713	MGK-264	Pass	ND	0.2	0.00200	0.00500
Carbaryl	Pass	ND	0.2	0.00800	0.0267	Myclobutanil	Pass	ND	0.2	0.0113	0.0376
Carbofuran	Pass	ND	0.2	0.00941	0.0314	Naled	Pass	ND	0.5	0.0202	0.0672
Chlorantraniliprole	Pass	ND	0.2	0.0147	0.0489	Oxamyl	Pass	ND	1	0.0190	0.0633
Chlorfenapyr	Pass	ND	1	0.0150	0.0440	Paclobutrazol	Pass	ND	0.4	0.0160	0.0532
Chlorpyrifos	Pass	ND	0.2	0.0136	0.0454	Permethrins	Pass	ND	0.2	0.0140	0.0410
Clofentezine	Pass	ND	0.2	0.0188	0.0627	Phosmet	Pass	ND	0.2	0.0141	0.0471
Cyfluthrin	Pass	ND	1	0.0230	0.0670	Piperonyl Butoxide	Pass	ND	2	0.00925	0.0308
Cypermethrin	Pass	ND	1	0.0230	0.0690	Prallethrin	Pass	ND	0.2	0.0306	0.102
Daminozide	Pass	ND	1	0.0275	0.0915	Propiconazole	Pass	ND	0.4	0.00659	0.0220
Diazinon	Pass	ND	0.2	0.00972	0.0324	Propoxur	Pass	ND	0.2	0.00722	0.0241
DDVP (Dichlorvos)	Pass	ND	0.1	0.0128	0.0427	Pyrethrins	Pass	ND	1	0.0102	0.0340
Dimethoate	Pass	ND	0.2	0.0135	0.0448	Pyridaben	Pass	ND	0.2	0.0154	0.0513
Ethoprophos	Pass	ND	0.2	0.0131	0.0435	Spinosad	Pass	ND	0.2	0.0174	0.0581
Etofenprox	Pass	ND	0.4	0.0185	0.0615	Spiromesifen	Pass	ND	0.2	0.0151	0.0505
Etoxazole	Pass	ND	0.2	0.0149	0.0497	Spirotetramat	Pass	ND	0.2	0.00736	0.0245
Fenoxycarb	Pass	ND	0.2	0.0119	0.0395	Spiroxamine	Pass	ND	0.4	0.0225	0.0749
Fenpyroximate	Pass	ND	0.4	0.00955	0.0318	Tebuconazole	Pass	ND	0.4	0.00669	0.0223
Fipronil	Pass	ND	0.4	0.0185	0.0618	Thiacloprid	Pass	ND	0.2	0.00784	0.0262
Flonicamid	Pass	ND	1	0.0236	0.0788	Thiamethoxam	Pass	ND	0.2	0.00785	0.0262
Fludioxonil	Pass	ND	0.4	0.0224	0.0747	Trifloxystrobin	Pass	ND	0.2	0.00966	0.0322
Hexythiazox	Pass	ND	1	0.00984	0.0328						

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	6.39	200	1.46	4.86
Cadmium	Pass	1.95	200	0.476	1.59
Lead	Pass	< LOQ	500	1.26	4.21
Mercury	Pass	ND	100	0.780	2.60

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	

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Pharm D. Co-Owner & CEO
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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	15.8	52.6	Dimethyl Sulfoxide	Pass	58.8	5000	13.7	45.6
1-Pentanol	Pass	ND	5000	26.3	87.8	Ethanol	Pass	ND	5000	19.1	63.8
1-Propanol	Pass	ND	5000	39.3	131	Ethyl Acetate	Pass	ND	5000	6.88	22.9
1,2-Dimethoxyethane	Pass	ND	100	21.1	70.3	Ethyl Ether	Pass	ND	5000	2.41	8.05
1,4-Dioxane	Pass	ND	380	20.5	68.3	Ethylene Glycol	Pass	ND	620	2.26	7.53
2-Butanol	Pass	ND	5000	20.0	66.5	Ethylene Oxide	Pass	ND	50	1.59	5.30
2-Butanone	Pass	ND	5000	11.1	36.8	n-Heptane	Pass	ND	5000	8.72	29.1
2-Ethoxyethanol	Pass	ND	160	14.7	49.2	n-Hexane	Pass	ND	290	2.51	8.38
2-Methylbutane	Pass	ND	5000	1.90	6.33	Isopropyl Acetate	Pass	ND	5000	12.0	39.9
2-Methylpentane	Pass	ND	290	2.26	7.52	Methanol	Pass	ND	3000	8.57	28.6
2-Propanol (IPA)	Pass	ND	5000	28.0	90.8	Methylpropane	Pass	ND	5000	2.28	7.61
2,2-Dimethylbutane	Pass	ND	290	4.22	14.1	N,N-Dimethylacetamide	Pass	ND	1090	16.0	53.3
2,3-Dimethylbutane	Pass	ND	290	1.83	6.11	N,N-Dimethylformamide	Pass	ND	880	21.7	72.2
3-Methylpentane	Pass	ND	290	2.33	7.78	n-Pentane	Pass	ND	5000	2.01	6.68
Acetone	Pass	ND	5000	44.2	147	Propane	Pass	ND	5000	2.27	7.56
Acetonitrile	Pass	ND	410	17.9	53.7	Pyridine	Pass	ND	200	13.2	44.0
Benzene	Pass	ND	2	0.402	1.34	Sulfolane	Pass	ND	160	7.97	26.6
n-Butane	Pass	ND	5000	1.81	6.03	Tetrahydrofuran	Pass	ND	720	9.32	31.1
Cumene	Pass	ND	70	7.85	26.2	Toluene	Pass	ND	890	20.8	69.4
Cyclohexane	Pass	ND	3880	4.80	16.0	Xylenes	Pass	ND	2170	28.7	95.6
Dichloromethane	Pass	ND	600	2.02	6.75						

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