



Steep Hill Arkansas

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

CERTIFICATE OF ANALYSIS

Sample Name: Lavender Bath Bomb
Steep Hill ID: AR95854
Batch ID: 0325A
State ID: 30mg Hemp Extract Per Bomb
Sample Type: Topical
Date Received: 12/16/2020
Date Reported: 12/20/2020
Pkg. Mass: 359 g

Customer: Charlotte's Web
700 Tech Ct
Louisville, CO 80027

OVERALL BATCH SUMMARY: **PASS**

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



Total THC

Not Detected
Not Detected
Not Detected

Total CBD

0.0418 %
0.418 mg/g
150 mg/pkg

Total Cannabinoids

0.0418 %
0.418 mg/g
150 mg/pkg

Brandon Thornton
Pharm D. Co-Owner & CEO
Date: 12/20/2020

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CERTIFICATE OF ANALYSIS

Cannabinoid Results

12/19/2020

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	0.0418	0.418	150	0.00536	0.0166
CBDA	ND	ND	ND	0.00286	0.00875
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	0.00625	0.0189
delta-8-THC	NT	NT	NT	NT	NT
THCA	ND	ND	ND	0.00268	0.00858
THCV	NT	NT	NT	NT	NT
Total	0.0418	0.418	150		

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

12/19/2020

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	0.545	Imazalil	Pass	ND	0.2	0.0210	0.0702
Acephate	Pass	ND	0.4	0.0127	0.0425	Imidacloprid	Pass	ND	0.4	0.00992	0.0330
Acequinocyl	Pass	ND	2	0.182	0.608	Kresoxim-methyl	Pass	ND	0.4	0.00878	0.0293
Acetamiprid	Pass	ND	0.2	0.0129	0.0429	Malathion	Pass	ND	0.2	0.00610	0.0204
Aldicarb	Pass	ND	0.4	0.0820	0.273	Metalaxyl	Pass	ND	0.2	0.00900	0.0300
Azoxystrobin	Pass	ND	0.2	0.0116	0.0386	Methiocarb	Pass	ND	0.2	0.00867	0.0289
Bifenazate	Pass	ND	0.2	0.00807	0.0269	Methomyl	Pass	ND	0.4	0.0130	0.0433
Bifenthrin	Pass	ND	0.2	0.0650	0.217	Methyl Parathion	Pass	ND	0.2	0.0144	0.0424
Boscalid	Pass	ND	0.4	0.0206	0.0687	MGK-264	Pass	ND	0.2	0.00193	0.00481
Carbaryl	Pass	ND	0.2	0.00771	0.0257	Myclobutanil	Pass	ND	0.2	0.0109	0.0362
Carbofuran	Pass	ND	0.2	0.00907	0.0302	Naled	Pass	ND	0.5	0.0194	0.0647
Chlorantraniliprole	Pass	ND	0.2	0.0141	0.0471	Oxamyl	Pass	ND	1	0.0183	0.0610
Chlorfenapyr	Pass	ND	1	0.0144	0.0424	Paclobutrazol	Pass	ND	0.4	0.0154	0.0513
Chlorpyrifos	Pass	ND	0.2	0.0131	0.0437	Permethrins	Pass	ND	0.2	0.0135	0.0395
Clofentezine	Pass	ND	0.2	0.0181	0.0604	Phosmet	Pass	ND	0.2	0.0136	0.0453
Cyfluthrin	Pass	ND	1	0.0221	0.0645	Piperonyl Butoxide	Pass	ND	2	0.00892	0.0297
Cypermethrin	Pass	ND	1	0.0221	0.0664	Prallethrin	Pass	ND	0.2	0.0295	0.0984
Daminozide	Pass	ND	1	0.0264	0.0882	Propiconazole	Pass	ND	0.4	0.00635	0.0212
Diazinon	Pass	ND	0.2	0.00937	0.0312	Propoxur	Pass	ND	0.2	0.00696	0.0232
DDVP (Dichlorvos)	Pass	ND	0.1	0.0123	0.0411	Pyrethrins	Pass	ND	1	0.00983	0.0328
Dimethoate	Pass	ND	0.2	0.0130	0.0432	Pyridaben	Pass	ND	0.2	0.0148	0.0495
Ethoprophos	Pass	ND	0.2	0.0126	0.0419	Spinosad	Pass	ND	0.2	0.0168	0.0560
Etofenprox	Pass	ND	0.4	0.0178	0.0593	Spiromesifen	Pass	ND	0.2	0.0146	0.0486
Etoxazole	Pass	ND	0.2	0.0144	0.0479	Spirotetramat	Pass	ND	0.2	0.00710	0.0236
Fenoxycarb	Pass	ND	0.2	0.0114	0.0381	Spiroxamine	Pass	ND	0.4	0.0217	0.0722
Fenpyroximate	Pass	ND	0.4	0.00920	0.0307	Tebuconazole	Pass	ND	0.4	0.00644	0.0215
Fipronil	Pass	ND	0.4	0.0179	0.0595	Thiacloprid	Pass	ND	0.2	0.00756	0.0252
Flonicamid	Pass	ND	1	0.0228	0.0759	Thiamethoxam	Pass	ND	0.2	0.00757	0.0252
Fludioxonil	Pass	ND	0.4	0.0216	0.0720	Trifloxystrobin	Pass	ND	0.2	0.00931	0.0310
Hexythiazox	Pass	ND	1	0.00948	0.0316						

Heavy Metals Results

Pass

12/20/2020

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	2.95	9.84
Cadmium	Pass	ND	200	0.964	3.21
Lead	Pass	33.0	500	2.56	8.52
Mercury	Pass	ND	100	1.58	5.26

Moisture Results

NT

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

Analyte	Pass/Fail	%	Limit
Moisture	NT	NT	

Microbial Impurities Results

Pass

12/18/2020

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

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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Residual Solvents Results

NT

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	NT	NT	NT	NT	NT	Dimethyl Sulfoxide	NT	NT	NT	NT	NT
1-Pentanol	NT	NT	NT	NT	NT	Ethanol	NT	NT	NT	NT	NT
1-Propanol	NT	NT	NT	NT	NT	Ethyl Acetate	NT	NT	NT	NT	NT
1,2-Dimethoxyethane	NT	NT	NT	NT	NT	Ethyl Ether	NT	NT	NT	NT	NT
1,4-Dioxane	NT	NT	NT	NT	NT	Ethylene Glycol	NT	NT	NT	NT	NT
2-Butanol	NT	NT	NT	NT	NT	Ethylene Oxide	NT	NT	NT	NT	NT
2-Butanone	NT	NT	NT	NT	NT	n-Heptane	NT	NT	NT	NT	NT
2-Ethoxyethanol	NT	NT	NT	NT	NT	n-Hexane	NT	NT	NT	NT	NT
2-Methylbutane	NT	NT	NT	NT	NT	Isopropyl Acetate	NT	NT	NT	NT	NT
2-Methylpentane	NT	NT	NT	NT	NT	Methanol	NT	NT	NT	NT	NT
2-Propanol (IPA)	NT	NT	NT	NT	NT	Methylpropane	NT	NT	NT	NT	NT
2,2-Dimethylbutane	NT	NT	NT	NT	NT	N,N-Dimethylacetamide	NT	NT	NT	NT	NT
2,3-Dimethylbutane	NT	NT	NT	NT	NT	N,N-Dimethylformamide	NT	NT	NT	NT	NT
3-Methylpentane	NT	NT	NT	NT	NT	n-Pentane	NT	NT	NT	NT	NT
Acetone	NT	NT	NT	NT	NT	Propane	NT	NT	NT	NT	NT
Acetonitrile	NT	NT	NT	NT	NT	Pyridine	NT	NT	NT	NT	NT
Benzene	NT	NT	NT	NT	NT	Sulfolane	NT	NT	NT	NT	NT
n-Butane	NT	NT	NT	NT	NT	Tetrahydrofuran	NT	NT	NT	NT	NT
Cumene	NT	NT	NT	NT	NT	Toluene	NT	NT	NT	NT	NT
Cyclohexane	NT	NT	NT	NT	NT	Xylenes	NT	NT	NT	NT	NT
Dichloromethane	NT	NT	NT	NT	NT						

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