

CERTIFICATE OF ANALYSIS



SAMPLE INFORMATION

Sample Name: Deep Calm Massage Oil
Sample Id: 106717
Collected: 06/27/2019 15:28
Serving Size: 1 container
Batch Size: 1002 units
Density: 0.9137 mg/ml

Sample Matrix: Topical
Batch Id: GB-BLND-MSG-OIL-190527
Received: 06/28/2019 09:30
Servings Per Pkg: 1
Sample Size: 8 units
Overall Result: **Pass**

DISTRIBUTOR INFO

Business Name: HERBL Distribution
City: Santa Rosa
Zip Code: 95403

Street Address: 3158 Condo Court
State: CA
License: A11-18-0000109-TEMP

CULTIVATOR INFO

Business Name: Weird Science Labs
City: Berkeley
Zip Code: 94710

Street Address: 823 Gilman St.
State: CA
License: CDPH-10002654

CANNABINOID ANALYSIS

i Total THC,CBD value(s) have been decarboxylated.

TOTAL THC: 103.0 mg per serving (3.433 mg/mL) (0.3757 %), 102.99 mg per package
TOTAL CBD: 42.18 mg per serving (1.406 mg/mL) (0.1539 %), 42.18 mg per package
TOTAL CANNABINOIDS: 159.0 mg per serving (5.301 mg/mL) (0.5827 %)

TEST TYPE RESULT: N/A
UNIT OF MEASUREMENT: Milligrams per Milliliter(mg/mL)

ANALYTE	RESULT	LOD	LLOQ	ANALYTE	RESULT	LOD	LLOQ
D9THC	3.433 mg/mL (0.3757 %)	0.0100	0.0250	D8THC	ND	0.0100	0.0250
CBG	0.1735 mg/mL (0.0190 %)	0.0100	0.0250	CBC	0.1044 mg/mL (0.0114 %)	0.0100	0.0250
THCv	0.0231 mg/mL (0.0025 %)	0.0100	0.0250	CBD	1.406 mg/mL (0.1539 %)	0.0100	0.0250
CBN	0.1258 mg/mL (0.0138 %)	0.0100	0.0250	CBDv	0.0587 mg/mL (0.0064 %)	0.0100	0.0250
THCa	ND	0.0100	0.0250	CBGa	<1 mg/ml (<1 mg/ml)	0.0100	0.0250
CBDa	ND	0.0100	0.0250				

ADDITIONAL INFORMATION

Method: SOP-TECH-001
Instrument: UPLC-DAD

Sample Prepped 07/02/2019 17:37
Sample Analyzed 07/02/2019 18:01

Sample Approved 07/10/2019 11:57



CERTIFICATE OF ANALYSIS

CHEMICAL RESIDUE ANALYSIS

TEST TYPE RESULT: **Pass**
 UNIT OF MEASUREMENT: **Micrograms per Gram(ug/g)**

ANALYTE	RESULT	LOD	LLOQ	ACTION LEVEL	ANALYTE	RESULT	LOD	LLOQ	ACTION LEVEL
Abamectin	ND	0.0200	0.0400	0.3000 Pass	Acephate	ND	0.0200	0.0400	5.000 Pass
Acequinocyl	ND	0.0200	0.0400	4.000 Pass	Acetamiprid	ND	0.0200	0.0400	5.000 Pass
Aldicarb	ND	0.0200	0.0400	0.0 Pass	Azoxystrobin	ND	0.0200	0.0400	40.00 Pass
Bifenazate	<LLOQ	0.0200	0.0400	5.000 Pass	Bifenthrin	ND	0.0200	0.0400	0.5000 Pass
Boscalid	ND	0.0200	0.0400	10.00 Pass	Carbaryl	ND	0.0200	0.0400	0.5000 Pass
Carbofuran	ND	0.0200	0.0400	0.0 Pass	Chlorantranilprole	ND	0.0200	0.0400	40.00 Pass
Chlorfenapyr	ND	0.0200	0.0400	0.0 Pass	Chlorpyrifos	ND	0.0200	0.0400	0.0 Pass
Clofentezine	ND	0.0200	0.0400	0.5000 Pass	Coumaphos	ND	0.0200	0.0400	0.0 Pass
Cyfluthrin	ND	0.1000	0.2000	1.000 Pass	Cypermethrin	ND	0.0400	0.1000	1.000 Pass
Daminozide	ND	0.0200	0.0400	0.0 Pass	Diazinon	ND	0.0200	0.0400	0.2000 Pass
Dichlorvos	ND	0.0200	0.0400	0.0 Pass	Dimethoate	ND	0.0200	0.0400	0.0 Pass
Dimethomorph	ND	0.0099	0.0198	20.00 Pass	Ethoprophos	ND	0.0200	0.0400	0.0 Pass
Etofenprox	ND	0.0200	0.0400	0.0 Pass	Etoxazole	ND	0.0200	0.0400	1.500 Pass
Fenhexamid	ND	0.0200	0.0400	10.00 Pass	Fenoxycarb	ND	0.0200	0.0400	0.0 Pass
Fenpyroximate	ND	0.0200	0.0400	2.000 Pass	Fipronil	ND	0.0200	0.0400	0.0 Pass
Fonicamid	ND	0.0200	0.0400	2.000 Pass	Fludioxonil	ND	0.0200	0.0400	30.00 Pass
Hexythiazox	ND	0.0200	0.0400	2.000 Pass	Imazalil	ND	0.0200	0.0400	0.0 Pass
Imidacloprid	ND	0.0200	0.0400	3.000 Pass	KresoximMethyl	ND	0.0200	0.0400	1.000 Pass
Malathion	ND	0.0200	0.0400	5.000 Pass	Metalaxyl	ND	0.0200	0.0400	15.00 Pass
Methiocarb	ND	0.0200	0.0400	0.0 Pass	Methomyl	ND	0.0200	0.0400	0.1000 Pass
Mevinphos	ND	0.0200	0.0400	0.0 Pass	Myclobutanil	0.0636 ug/g	0.0200	0.0400	9.000 Pass
Naled	ND	0.0200	0.0400	0.5000 Pass	Oxamyl	ND	0.0200	0.0400	0.2000 Pass
Paclobutrazol	ND	0.0200	0.0400	0.0 Pass	Permethrins	ND	0.0200	0.0400	20.00 Pass
Phosmet	ND	0.0200	0.0400	0.2000 Pass	PiperonylButoxide	ND	0.0200	0.0400	8.000 Pass
Prallethrin	ND	0.0200	0.0400	0.4000 Pass	Propiconazole	ND	0.0200	0.0400	20.00 Pass
Propoxur	ND	0.0200	0.0400	0.0 Pass	Pyrethrins	<LLOQ	0.0178	0.0356	1.000 Pass
Pyridaben	ND	0.0200	0.0400	3.000 Pass	Spinetoram	ND	0.0200	0.0400	3.000 Pass
Spinosad	ND	0.0200	0.0400	3.000 Pass	Spiromesifen	ND	0.0200	0.0400	12.00 Pass
Spirotetramat	ND	0.0200	0.0400	13.00 Pass	Spiroxamine	ND	0.0200	0.0400	0.4000 Pass
Tebuconazole	ND	0.0200	0.0400	2.000 Pass	Thiacloprid	ND	0.0200	0.0400	0.0 Pass
Thiamethoxam	ND	0.0200	0.0400	4.500 Pass	Trifloxystrobin	ND	0.0200	0.0400	30.00 Pass

ADDITIONAL INFORMATION

Method: SOP-TECH-002
 Instrument: LC-MS/MS

Sample Prepped 07/02/2019 07:46
 Sample Analyzed 07/02/2019 07:47

Sample Approved 07/02/2019 16:37



CERTIFICATE OF ANALYSIS

CHEMICAL RESIDUE GC ANALYSIS

TEST TYPE RESULT: **Pass**
 UNIT OF MEASUREMENT: Micrograms per Gram(ug/g)

ANALYTE	RESULT	LOD	LLOQ	ACTION LEVEL	ANALYTE	RESULT	LOD	LLOQ	ACTION LEVEL
Captan	ND	0.1000	0.2000	5.000 Pass	Chlordane	ND	0.0400	0.1000	0.0 Pass
MethylParathion	ND	0.0400	0.1000	0.0 Pass	PCNB	ND	0.0200	0.0400	0.2000 Pass

ADDITIONAL INFORMATION

Method: SOP-TECH-010 Sample Prepped 07/02/2019 07:46 Sample Approved 07/02/2019 16:15
 Instrument: GC-MS/MS Sample Analyzed 07/02/2019 07:47

RESIDUAL SOLVENT ANALYSIS

TEST TYPE RESULT: **Pass**
 UNIT OF MEASUREMENT: Micrograms per Gram(ug/g)

ANALYTE	RESULT	LOD	LLOQ	ACTION LEVEL	ANALYTE	RESULT	LOD	LLOQ	ACTION LEVEL
Acetone	ND	2.500	5.000	5000 Pass	Acetonitrile	ND	0.5000	1.000	410.0 Pass
Benzene	ND	1.000	2.500	1.000 Pass	Butane	ND	24.00	48.00	5000 Pass
Chloroform	ND	1.000	2.500	1.000 Pass	Ethanol	3.290 ug/g	1.000	2.500	5000 Pass
Ethyl Acetate	ND	2.500	5.000	5000 Pass	Ethyl Ether	ND	10.00	50.00	5000 Pass
Ethylene oxide	ND	0.5000	1.000	1.000 Pass	Heptane	ND	0.2500	0.5000	5000 Pass
Hexane	ND	0.2500	0.5000	290.0 Pass	Isopropyl Alcohol	0.7183 ug/g	0.2500	0.5000	5000 Pass
Methanol	<LLOQ	1.000	2.500	3000 Pass	Methylene chloride	ND	0.2500	0.5000	1.000 Pass
Pentane	ND	1.000	2.500	5000 Pass	Propane	ND	5.000	10.00	5000 Pass
Toluene	<LLOQ	0.2500	0.5000	890.0 Pass	Xylenes	ND	0.5000	1.000	2170 Pass
Trichloroethylene	ND	0.2500	0.5000	1.000 Pass	1,2-Dichloroethane	ND	0.2500	0.5000	1.000 Pass

ADDITIONAL INFORMATION

Method: SOP-TECH-021 Sample Prepped 07/02/2019 16:59 Sample Approved 07/08/2019 11:38
 Instrument: HS-GC-MS/FID Sample Analyzed 07/02/2019 17:00



CERTIFICATE OF ANALYSIS

MICROBIAL ANALYSIS

TEST TYPE RESULT: **Pass**
 UNIT OF MEASUREMENT: Cycle Threshold (Ct)

ANALYTE	RESULT	LOD	LLOQ	ACTION LEVEL		ANALYTE	RESULT	LOD	LLOQ	ACTION LEVEL	
A.fumigatus	ND	33.00	0.0	0.0	Pass	A. flavus	ND	33.00	0.0	0.0	Pass
A. niger	ND	33.00	0.0	0.0	Pass	A. terreus	ND	33.00	0.0	0.0	Pass
STEC	ND	33.00	0.0	0.0	Pass	Salmonella spp	ND	33.00	0.0	0.0	Pass

ADDITIONAL INFORMATION

Method: SOP-TECH-016, SOP-TECH-022
 Instrument: qPCR
 Sample Prepped: 07/02/2019 06:33
 Sample Analyzed: 07/02/2019 12:25
 Sample Approved: 07/02/2019 12:37

FILTH & FOREIGN MATERIAL

TEST TYPE RESULT: **Pass**
 UNIT OF MEASUREMENT: Filth and Foreign Matter (%)

ANALYTE	RESULT	LOD	LLOQ	ACTION LEVEL		ANALYTE	RESULT	LOD	LLOQ	ACTION LEVEL	
IF RH ME	ND	0.0	0.0	3.000	Pass	IFM	ND	0.0	0.0	25.00	Pass
Mold	ND	0.0	0.0	25.00	Pass	SSCD	ND	0.0	0.0	25.00	Pass

ADDITIONAL INFORMATION

Method: SOP-TECH-009
 Instrument: Visual Inspection
 Sample Prepped: 06/28/2019 12:28
 Sample Analyzed: 06/28/2019 12:29
 Sample Approved: 06/28/2019 16:40

HEAVY METALS

TEST TYPE RESULT: **Pass**
 UNIT OF MEASUREMENT: Micrograms per Gram(ug/g)

ANALYTE	RESULT	LOD	LLOQ	ACTION LEVEL		ANALYTE	RESULT	LOD	LLOQ	ACTION LEVEL	
Arsenic	<LLOQ	0.0	0.0050	1.500	Pass	Cadmium	<LLOQ	0.0	0.0050	0.5000	Pass
Lead	0.0707 ug/g	0.0	0.0050	0.5000	Pass	Mercury	<LLOQ	0.0	0.0050	3.000	Pass

ADDITIONAL INFORMATION

Method: SOP-TECH-013
 Instrument: ICP-MS
 Sample Prepped: 07/02/2019 10:12
 Sample Analyzed: 07/02/2019 10:13
 Sample Approved: 07/03/2019 14:55



CERTIFICATE OF ANALYSIS

MYCOTOXINS

TEST TYPE RESULT: **Pass**
UNIT OF MEASUREMENT: **Micrograms per Kilogram(ug/kg)**

ANALYTE	RESULT	LOD	LLOQ	ACTION LEVEL	ANALYTE	RESULT	LOD	LLOQ	ACTION LEVEL
Aflatoxin B1	ND	1.000	2.000	N/A	Aflatoxin B2	ND	2.000	5.000	N/A
Aflatoxin G1	ND	2.000	5.000	N/A	Aflatoxin G2	ND	5.000	2.000	N/A
Total Aflatoxins	ND	10.00	14.00	20.00 Pass	Ochratoxin A	ND	1.000	2.000	20.00 Pass

ADDITIONAL INFORMATION

Method: SOP-TECH-020
Instrument: LC-MS/MS

Sample Prepped 07/02/2019 07:46
Sample Analyzed 07/02/2019 07:47

Sample Approved 07/03/2019 17:25

This report applies to the sample investigated and is not necessarily indicative of the quality or condition of apparently identical or similar products. This report provides technical results for a specific sample and the report shall not be altered, modified, supplemented, or abstracted in any manner. Any violation of these conditions renders the report and its results void.

All LQC samples required by state regulations were performed and met the acceptance criteria.

DATA REVIEWED AND APPROVED BY



07/10/2019

Swetha Kaul, PhD
Chief Scientific Officer

Date

