Cannalysis

Hemp Product Testing

High CBN CBD Sleep Aid 1500mg CBD 90mg CBN

FARM BILL COMPLIANT

SAMPLE ID
145696

SAMPLE NAME
High CBN CBD Sleep Aid 1500mg CBD 90mg CBN

MATRIX
Tincture

COLLECTED
10/25/2019 09:22

RECEIVED
10/25/2019 09:22

SERVING SIZE
1

SERVINGS PER PACKAGE
30

DENSITY
0.9400 g/ml

CULTIVATOR INFO
Lift Brands North America

TOTAL CBD	48.31 MG PER SERVING
TOTAL THC	ND MG PER SERVING
TOTAL CANNABINOIDS	51.49 MG PER SERVING
TOTAL TERPENES	0.19 % MG PER SERVING

Chemical Residue
No Analytes Detected

Chemical Residue GC
No Analytes Detected

Residual Solvent
Ethanol: <LLOQ, Pentane: <LLOQ

Microbial qPCR
No Analytes Detected

Heavy Metals
Lead: 0.1393 ug/g, Mercury: <LLOQ

Mycotoxins
No Analytes Detected

Indicates that the hemp product passes some of the strictest testing standards available for cannabis and hemp.

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REPORT ID: COA-00047499 | Exp: 11/04/2020
ISO/IEC 17025:2005 Accredited | #93948

CANNABINOID ANALYSIS

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

TOTAL THC:	ND per serving (ND) (ND)
TOTAL CBD:	48.31 mg per serving (48.31 mg/mL) (5.139 %)
TOTAL CANNABINOIDS:	51.49 mg per serving (51.49 mg/mL) (5.477 %)

UNIT OF MEASUREMENT: **Milligrams per Milliliter(mg/mL)**

ANALYTE	RESULT	LOD	LLOQ	ANALYTE	RESULT	LOD	LLOQ
D9THC	ND	0.0500	0.1000	D8THC	ND	0.0500	0.1000
CBG	ND	0.0500	0.1000	CBC	ND	0.0500	0.1000
THCv	ND	0.0500	0.1000	CBD	48.31 mg/mL (5.139 %)	0.0500	0.1000
CBN	3.180 mg/mL (0.3383 %)	0.0500	0.1000	CBDv	ND	0.0500	0.1000
THCa	ND	0.0500	0.1000	CBGa	ND	0.0500	0.1000
CBDa	ND	0.0500	0.1000				

ADDITIONAL INFORMATION

Method:	SOP-TECH-001	Sample Prepped	10/28/2019 09:39	Sample Approved	10/29/2019 18:37
Instrument:	UPLC-DAD	Sample Analyzed	10/28/2019 17:01		

CHEMICAL RESIDUE ANALYSIS

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	Acephate	ND	0.0200	0.0400	5.000
Acequinocyl	ND	0.0200	0.0400	4.000	Acetamiprid	ND	0.0200	0.0400	5.000
Aldicarb	ND	0.0200	0.0400	0.0	Azoxystrobin	ND	0.0200	0.0400	40.00
Bifenazate	ND	0.0200	0.0400	5.000	Bifenthrin	ND	0.0200	0.0400	0.5000
Boscalid	ND	0.0200	0.0400	10.00	Carbaryl	ND	0.0200	0.0400	0.5000
Carbofuran	ND	0.0200	0.0400	0.0	Chlorantraniliprole	ND	0.0200	0.0400	40.00
Chlorfenapyr	ND	0.0200	0.0400	0.0	Chlorpyrifos	ND	0.0200	0.0400	0.0
Clofentezine	ND	0.0200	0.0400	0.5000	Coumaphos	ND	0.0200	0.0400	0.0
Cyfluthrin	ND	0.1000	0.2000	1.000	Cypermethrin	ND	0.0400	0.1000	1.000
Daminozide	ND	0.0200	0.0400	0.0	Diazinon	ND	0.0200	0.0400	0.2000
Dichlorvos	ND	0.0200	0.0400	0.0	Dimethoate	ND	0.0200	0.0400	0.0
Dimethomorph	ND	0.0099	0.0198	20.00	Ethoprophos	ND	0.0200	0.0400	0.0
Etofenprox	ND	0.0200	0.0400	0.0	Etoxazole	ND	0.0200	0.0400	1.500
Fenhexamid	ND	0.0200	0.0400	10.00	Fenoxycarb	ND	0.0200	0.0400	0.0
Fenpyroximate	ND	0.0200	0.0400	2.000	Fipronil	ND	0.0200	0.0400	0.0
Flonicamid	ND	0.0200	0.0400	2.000	Fludioxonil	ND	0.0200	0.0400	30.00
Hexythiazox	ND	0.0200	0.0400	2.000	Imazalil	ND	0.0200	0.0400	0.0
Imidacloprid	ND	0.0200	0.0400	3.000	KresoximMethyl	ND	0.0200	0.0400	1.000
Malathion	ND	0.0200	0.0400	5.000	Metalaxyl	ND	0.0200	0.0400	15.00
Methiocarb	ND	0.0200	0.0400	0.0	Methomyl	ND	0.0200	0.0400	0.1000
Mevinphos	ND	0.0200	0.0400	0.0	Myclobutanil	ND	0.0200	0.0400	9.000
Naled	ND	0.0200	0.0400	0.5000	Oxamyl	ND	0.0200	0.0400	0.2000
Paclobutrazol	ND	0.0200	0.0400	0.0	Permethrins	ND	0.0200	0.0400	20.00

Phosmet	ND	0.0200	0.0400	0.2000	PiperonylButoxide	ND	0.0200	0.0400	8.000
Prallethrin	ND	0.0200	0.0400	0.4000	Propiconazole	ND	0.0200	0.0400	20.00
Propoxur	ND	0.0200	0.0400	0.0	Pyrethrins	ND	0.0178	0.0356	1.000
Pyridaben	ND	0.0200	0.0400	3.000	Spinetoram	ND	0.0200	0.0400	3.000
Spinosad	ND	0.0200	0.0400	3.000	Spiromesifen	ND	0.0200	0.0400	12.00
Spirotetramat	ND	0.0200	0.0400	13.00	Spiroxamine	ND	0.0200	0.0400	0.0
Tebuconazole	ND	0.0200	0.0400	2.000	Thiacloprid	ND	0.0200	0.0400	0.0
Thiamethoxam	ND	0.0200	0.0400	4.500	Trifloxystrobin	ND	0.0200	0.0400	30.00

ADDITIONAL INFORMATION

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

Sample Prepped 10/31/2019 14:36
Sample Analyzed 10/31/2019 14:39

Sample Approved 11/01/2019 11:11

CHEMICAL RESIDUE GC ANALYSIS

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	Chlordane	ND	0.0400	0.1000	0.0
MethylParathion	ND	0.0400	0.1000	0.0	PCNB	ND	0.0200	0.0400	0.2000

ADDITIONAL INFORMATION

Method: SOP-TECH-010
Instrument: GC-MS/MS

Sample Prepped 10/31/2019 14:36
Sample Analyzed 10/31/2019 14:39

Sample Approved 11/01/2019 10:52

TERPENE ANALYSIS

UNIT OF MEASUREMENT: **Milligrams per Milliliter(mg/mL)**

ANALYTE	RESULT	LOD	LLOQ	ANALYTE	RESULT	LOD	LLOQ
Limonene	ND	0.0200	0.0400	Delta-3-Carene	ND	0.0200	0.0400
Gamma-Terpinene	0.0925 mg/mL (0.0098 %)	0.0200	0.0400	Nerolidol	0.3790 mg/mL (0.0403 %)	0.0200	0.0400
Linalool	ND	0.0200	0.0400	Geraniol	0.3077 mg/mL (0.0327 %)	0.0200	0.0400
Alpha-Bisabolol	0.5859 mg/mL (0.0623 %)	0.0200	0.0400	Isopulegol	0.1472 mg/mL (0.0157 %)	0.0200	0.0400
Alpha-Pinene	ND	0.0200	0.0400	Beta-Pinene	ND	0.0200	0.0400
Eucalyptol	ND (ND)	0.0200	0.0400	Ocimene	ND	0.0200	0.0400
Terpinolene	ND	0.0200	0.0400	P-Cymene	ND	0.0200	0.0400
B-Myrcene	ND	0.0200	0.0400	Beta-Caryophyllene	0.1042 mg/mL (0.0111 %)	0.0200	0.0400
Alpha-Terpinene	ND	0.0200	0.0400	Alpha-Humulene	0.1114 mg/mL (0.0119 %)	0.0200	0.0400
Guaiol	ND	0.0200	0.0400	Camphene	ND	0.0200	0.0400
Caryophyllene Oxide	0.1812 mg/mL (0.0193 %)	0.0200	0.0400				

ADDITIONAL INFORMATION

Method: SOP-TECH-004
Instrument: HS-GC-FID

Sample Prepped 10/31/2019 16:54
Sample Analyzed 10/31/2019 16:55

Sample Approved 11/01/2019 13:23

RESIDUAL SOLVENT ANALYSIS

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	Acetonitrile	ND	0.5000	1.000	410.0
Benzene	ND	0.5000	1.000	1.000	Butane	ND	24.00	48.00	5000
Chloroform	ND	0.5000	1.000	1.000	Ethanol	<LLOQ	1.000	2.500	1.000E+4
Ethyl Acetate	ND	2.500	5.000	5000	Ethyl Ether	ND	10.00	50.00	5000
Ethylene oxide	ND	0.5000	1.000	1.000	Heptane	ND	0.2500	0.5000	5000
Hexane	ND	0.2500	0.5000	290.0	Isopropyl Alcohol	ND	0.2500	0.5000	5000
Methanol	ND	1.000	2.500	3000	Methylene chloride	ND	0.2500	0.5000	1.000
Pentane	<LLOQ	1.000	2.500	5000	Propane	ND	5.000	10.00	5000
Toluene	ND	0.2500	0.5000	890.0	Xylenes	ND	0.5000	1.000	2170
Trichloroethylene	ND	0.2500	0.5000	1.000	1,2-Dichloroethane	ND	0.2500	0.5000	1.000

ADDITIONAL INFORMATION

Method: SOP-TECH-021
Instrument: HS-GC-MS/FID

Sample Prepped 10/31/2019 17:00
Sample Analyzed 10/31/2019 17:00

Sample Approved 11/01/2019 13:12

MICROBIAL qPCR ANALYSIS

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	A. flavus	ND	33.00	0.0	0.0
A. niger	ND	33.00	0.0	0.0	A. terreus	ND	33.00	0.0	0.0
STEC	ND	33.00	0.0	0.0	Salmonella spp	ND	33.00	0.0	0.0

ADDITIONAL INFORMATION

Method: SOP-TECH-016, SOP-TECH-022
Instrument: qPCR

Sample Prepped 10/31/2019 06:24
Sample Analyzed 10/31/2019 10:02

Sample Approved 10/31/2019 12:08

HEAVY METALS ANALYSIS

UNIT OF MEASUREMENT: Micrograms per Gram(ug/g)

ANALYTE	RESULT	LOD	LLOQ	ACTION LEVEL	ANALYTE	RESULT	LOD	LLOQ	ACTION LEVEL
Arsenic	ND	0.0200	0.0500	1.500	Cadmium	ND	0.0050	0.0500	0.5000
Lead	0.1393 ug/g	0.0100	0.0500	0.5000	Mercury	<LLOQ	0.0030	0.0500	3.000

ADDITIONAL INFORMATION

Method: SOP-TECH-013
Instrument: ICP-MS

Sample Prepped 10/31/2019 10:53
Sample Analyzed 10/31/2019 10:55

Sample Approved 10/31/2019 20:26

MYCOTOXINS ANALYSIS

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		Aflatoxin B2	ND	2.000	5.000	
Aflatoxin G1	ND	2.000	5.000		Aflatoxin G2	ND	2.000	5.000	
Total Aflatoxins	ND	10.00	14.00	20.00	Ochratoxin A	ND	1.000	2.000	20.00

ADDITIONAL INFORMATION

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

Sample Prepped 10/31/2019 10:44
Sample Analyzed 10/31/2019 11:52

Sample Approved 11/01/2019 08:40

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

Swetha Kaul, PhD
Chief Scientific Officer

11/04/2019
Date