

CONFIDENTIAL MANUFACTURER

This is an internal report from a contract manufacturer, information surrounding the identity of the manufacturer is proprietary.

Certificate of Quality Assurance

Product Name: CBD Vape Oil

Lot #: 0902191

Batch #: 090219JOV

Date of Manufacture: 09/02/19

Active Ingredients: THC-Free Phytocannabinoid-Rich Hemp Oil, Natural Terpenes

Inactive Ingredients: Organic Fractionated Coconut Oil

Attributes	Acceptance Criteria	Results	Test Method
Appearance	Amber color with with good clarity. Oil is not opaque.	Conforms	QC0002
Odor	Light pine scent with hints of citrus	Conforms	QC0002
Color	Amber	Conforms	QC0002
Dissolution	Oil is homogenous. Good clarity and not cloudy	Conforms	QC0002
Cannabinoid Content	45% cannabinoids	45% CBD, 0.65% CBDV Conforms	QC0001
Microbial Testing	Total Aerobic Count <2000 CFU	Conforms	QC0003

Package	Acceptance Criteria	Results
Primary Package	Container is clean on the outside and cap screwed on tight. No cracks or breaks.	Conforms
Secondary Package	Sturdy and clean. Not ripped, punctured, or torn.	Conforms

Prepared by: *Zach Bosler*

Z. Bosler 9/09/19

Reviewed by:

[Signature]
FALWE VARLANDSCHACI 9/09/19



This report cannot be used for ODA, OHA or OLCC compliance requirements.

Product identity: Vape Oil 0902191
Laboratory ID: 19-010750-0001

Client/Metric ID: .
Sample Date: 09/04/19 10:10

Summary

Potency:

Analyte per 1ml	Result	Limits	Units	LOQ	
CBD per 1ml	450		mg/1ml	0.93	CBD-Total per 1ml 450 mg/1ml
CBDV per 1ml [†]	6.25		mg/1ml	0.93	THC-Total per 1ml < 1.748 mg/1ml
					(Reported in milligrams per serving)

Pesticides:

All analytes passing and less than LOQ.

Terpenes:

Analyte	Percent by weight	Analyte	Percent by weight
Geraniol [†]	1.26	β-Caryophyllene [†]	0.365
(-)-caryophyllene oxide [†]	0.301	p-Cymene [†]	0.222
(-)-Guaiol [†]	0.204	β-Myrcene [†]	0.0996
(-)-β-Pinene [†]	0.0787	α-pinene [†]	0.0603
Humulene [†]	0.0485	Total Terpenes[†]	2.64

Metals:

Less than LOQ for all analytes.

Microbiology:

Less than LOQ for all analytes.



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Customer: My CBD Test

Product identity: Vape Oil 0902191
Client/Metric ID: .
Sample Date: 09/04/19 10:10
Laboratory ID: 19-010750-0001
Relinquished by: Received By Mail
Temp: 26.3 °C
Serving Size #1: 0.93 g

Sample Results

Potency per 1ml		Batch: 1908141					
Analyte	Result	Limits	Units	LOQ	Analyze	Method	Notes
CBC per 1ml [†]	< LOQ		mg/1ml	0.930	09/13/19	J AOAC 2015 V98-6	
CBC-A per 1ml [†]	< LOQ		mg/1ml	0.930	09/13/19	J AOAC 2015 V98-6	
CBC-Total per 1ml [†]	< LOQ		mg/1ml	1.75	09/13/19	J AOAC 2015 V98-6	
CBD per 1ml	450		mg/1ml	0.930	09/13/19	J AOAC 2015 V98-6	
CBD-A per 1ml	< LOQ		mg/1ml	0.930	09/13/19	J AOAC 2015 V98-6	
CBD-Total per 1ml	450		mg/1ml	1.75	09/13/19	J AOAC 2015 V98-6	
CBDV per 1ml [†]	6.25		mg/1ml	0.930	09/13/19	J AOAC 2015 V98-6	
CBDV-A per 1ml [†]	< LOQ		mg/1ml	0.930	09/13/19	J AOAC 2015 V98-6	
CBDV-Total per 1ml [†]	6.25		mg/1ml	1.74	09/13/19	J AOAC 2015 V98-6	
CBG per 1ml [†]	< LOQ		mg/1ml	0.930	09/13/19	J AOAC 2015 V98-6	
CBG-A per 1ml [†]	< LOQ		mg/1ml	0.930	09/13/19	J AOAC 2015 V98-6	
CBG-Total per 1ml [†]	< LOQ		mg/1ml	1.75	09/13/19	J AOAC 2015 V98-6	
CBL per 1ml [†]	< LOQ		mg/1ml	0.930	09/13/19	J AOAC 2015 V98-6	
CBN per 1ml	< LOQ		mg/1ml	0.930	09/13/19	J AOAC 2015 V98-6	
Δ8-THC per 1ml [†]	< LOQ		mg/1ml	0.930	09/13/19	J AOAC 2015 V98-6	
Δ9-THC per 1ml	< LOQ		mg/1ml	0.930	09/13/19	J AOAC 2015 V98-6	
THC-A per 1ml	< LOQ		mg/1ml	0.930	09/13/19	J AOAC 2015 V98-6	
THC-Total per 1ml	< LOQ		mg/1ml	1.75	09/13/19	J AOAC 2015 V98-6	
THCV per 1ml [†]	< LOQ		mg/1ml	0.930	09/13/19	J AOAC 2015 V98-6	
THCV-A per 1ml [†]	< LOQ		mg/1ml	0.930	09/13/19	J AOAC 2015 V98-6	
THCV-Total per 1ml [†]	< LOQ		mg/1ml	1.74	09/13/19	J AOAC 2015 V98-6	



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Microbiology

Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Notes
E.coli	< LOQ		cfu/g	10	1908077	09/11/19	AOAC 991.14 (Petrifilm)	X
Total Coliforms	< LOQ		cfu/g	10	1908077	09/11/19	AOAC 991.14 (Petrifilm)	X
Mold (RAPID Petrifilm)	< LOQ		cfu/g	10	1908075	09/11/19	AOAC 2014.05 (RAPID)	X
Yeast (RAPID Petrifilm)	< LOQ		cfu/g	10	1908075	09/11/19	AOAC 2014.05 (RAPID)	X

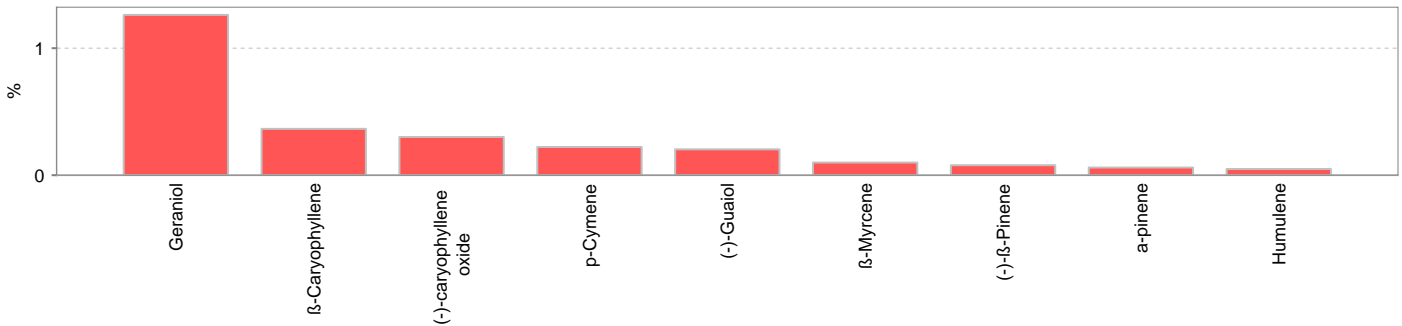
Pesticides Method AOAC 2007.01 & EN 15662 (mod) Units mg/kg Batch 1908114 Analyze 09/10/19 01:46 PM

Analyte	Result	Limits	LOQ	Status	Notes	Analyte	Result	Limits	LOQ	Status	Notes
Abamectin	< LOQ	0.50	0.250	pass		Acephate	< LOQ	0.40	0.250	pass	
Acequinocyl	< LOQ	2.0	1.00	pass		Acetamiprid	< LOQ	0.20	0.100	pass	
Aldicarb	< LOQ	0.40	0.200	pass		Azoxystrobin	< LOQ	0.20	0.100	pass	
Bifenazate	< LOQ	0.20	0.100	pass		Bifenthrin	< LOQ	0.20	0.100	pass	
Boscalid	< LOQ	0.40	0.100	pass		Carbaryl	< LOQ	0.20	0.100	pass	
Carbofuran	< LOQ	0.20	0.100	pass		Chlorantraniliprole	< LOQ	0.20	0.100	pass	
Chlorfenapyr	< LOQ	1.0	0.500	pass		Chlorpyrifos	< LOQ	0.20	0.100	pass	
Clofentezine	< LOQ	0.20	0.100	pass		Cyfluthrin (incl.	< LOQ	1.0	0.500	pass	
Cypermethrin	< LOQ	1.0	0.500	pass		Daminozide	< LOQ	1.0	0.500	pass	
Diazinon	< LOQ	0.20	0.100	pass		Dichlorvos	< LOQ	1.0	0.500	pass	
Dimethoate	< LOQ	0.20	0.100	pass		Ethoprophos	< LOQ	0.20	0.100	pass	
Etofenprox	< LOQ	0.40	0.200	pass		Etoxazole	< LOQ	0.20	0.100	pass	
Fenoxycarb	< LOQ	0.20	0.100	pass		Fenpyroximate	< LOQ	0.40	0.200	pass	
Fipronil	< LOQ	0.40	0.200	pass		Fonicamid	< LOQ	1.0	0.400	pass	
Fludioxonil	< LOQ	0.40	0.200	pass		Hexythiazox	< LOQ	1.0	0.400	pass	
Imazalil	< LOQ	0.20	0.100	pass		Imidacloprid	< LOQ	0.40	0.200	pass	
Kresoxim-methyl	< LOQ	0.40	0.200	pass		Malathion	< LOQ	0.20	0.100	pass	
Metalaxyl	< LOQ	0.20	0.100	pass		Methiocarb	< LOQ	0.20	0.100	pass	
Methomyl	< LOQ	0.40	0.200	pass		MGK-264	< LOQ	0.20	0.100	pass	
Myclobutanil	< LOQ	0.20	0.100	pass		Naled	< LOQ	0.50	0.250	pass	
Oxamyl	< LOQ	1.0	0.500	pass		Paclbutrazole	< LOQ	0.40	0.200	pass	
Parathion-Methyl	< LOQ	0.20	0.200	pass		Permethrin	< LOQ	0.20	0.100	pass	
Phosmet	< LOQ	0.20	0.100	pass		Piperonyl butoxide	< LOQ	2.0	1.00	pass	
Prallethrin	< LOQ	0.20	0.100	pass		Propiconazole	< LOQ	0.40	0.200	pass	
Propoxur	< LOQ	0.20	0.100	pass		Pyrethrin I (total)	< LOQ	1.0	0.500	pass	
Pyridaben	< LOQ	0.20	0.100	pass		Spinosad	< LOQ	0.20	0.100	pass	
Spiromesifen	< LOQ	0.20	0.100	pass		Spirotetramat	< LOQ	0.20	0.100	pass	
Spiroxamine	< LOQ	0.40	0.200	pass		Tebuconazole	< LOQ	0.40	0.200	pass	
Thiacloprid	< LOQ	0.20	0.100	pass		Thiamethoxam	< LOQ	0.20	0.100	pass	
Trifloxystrobin	< LOQ	0.20	0.100	pass							



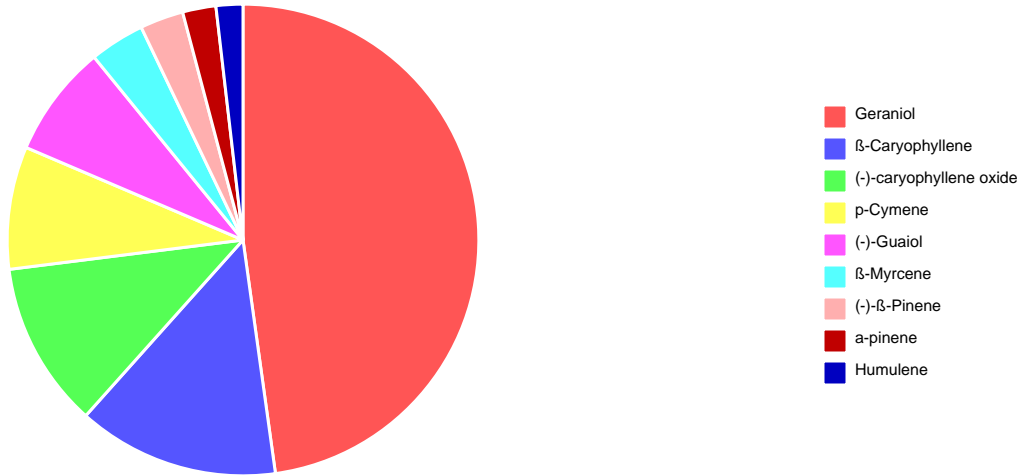
This report cannot be used for ODA, OHA or OLCC compliance requirements.

Terpenes				Method J AOAC 2015 V98-6	Units %	Batch 1908108	Analyze 09/10/19 11:56 AM
Analyte	Result	LOQ	Notes	Analyte	Result	LOQ	Notes
Geraniol [†]	1.26	0.020		β-Caryophyllene [†]	0.365	0.020	
(-)-caryophyllene oxide [†]	0.301	0.020		p-Cymene [†]	0.222	0.020	
(-)-Guaiol [†]	0.204	0.020		β-Myrcene [†]	0.0996	0.020	
(-)-β-Pinene [†]	0.0787	0.020		α-pinene [†]	0.0603	0.020	
Humulene [†]	0.0485	0.020		(R)-(+)-Limonene [†]	< LOQ	0.020	
(+)-Pulegone [†]	< LOQ	0.020		(±)-trans-Nerolidol [†]	< LOQ	0.020	
(-)-α-Terpineol [†]	< LOQ	0.020		(-)-Isopulegol [†]	< LOQ	0.020	
(+)-Borneol [†]	< LOQ	0.020		(+)-Cedrol [†]	< LOQ	0.020	
(+)-fenchol [†]	< LOQ	0.020		(±)-Camphor [†]	< LOQ	0.020	
(±)-cis-Nerolidol [†]	< LOQ	0.020		(±)-fenchone [†]	< LOQ	0.020	
α-Bisabolol [†]	< LOQ	0.020		α-cedrene [†]	< LOQ	0.020	
α-phellandrene [†]	< LOQ	0.020		α-Terpinene [†]	< LOQ	0.020	
Camphene [†]	< LOQ	0.020		cis-β-Ocimene [†]	< LOQ	0.006	
d-3-Carene [†]	< LOQ	0.020		Eucalyptol [†]	< LOQ	0.020	
farnesene [†]	< LOQ	0.020		γ-Terpinene [†]	< LOQ	0.020	
Geranyl acetate [†]	< LOQ	0.020		Isoborneol [†]	< LOQ	0.020	
Linalool [†]	< LOQ	0.020		Menthol [†]	< LOQ	0.020	
nerol [†]	< LOQ	0.020		Sabinene [†]	< LOQ	0.020	
Sabinene hydrate [†]	< LOQ	0.020		Terpinolene [†]	< LOQ	0.020	
trans-β-Ocimene [†]	< LOQ	0.013		valencene [†]	< LOQ	0.020	
Total Terpenes	2.64						





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Metals								
Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Notes
Arsenic	< LOQ		mg/kg	0.100	1908223	09/12/19	AOAC 2013.06 (mod.)	X
Cadmium	< LOQ		mg/kg	0.100	1908223	09/12/19	AOAC 2013.06 (mod.)	X
Lead	< LOQ		mg/kg	0.100	1908223	09/12/19	AOAC 2013.06 (mod.)	X
Mercury	< LOQ		mg/kg	0.100	1908240	09/12/19	AOAC 2013.06 (mod.)	X



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Abbreviations

Limits: Action Levels per OAR-333-007-0400, OAR-333-007-0210, OAR-333-007-0220

Limit(s) of Quantitation (LOQ): The minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence.

† = Analyte not NELAP accredited.

Units of Measure

cfu/g = Colony forming units per gram

g = Gram

mg/kg = Milligram per kilogram = parts per million (ppm)

mg/0.93g = Milligram per 0.93g

% = Percentage of sample

% wt = µg/g divided by 10,000

Glossary of Qualifiers

X: Not ORELAP accredited.

Approved Signatory

Derrick Tanner
General Manager



CERTIFICATE OF ANALYSIS



SAMPLE INFORMATION

Sample Name: Vape Oil 0902191
Sample Id: 139120
Collected: 09/23/2019 12:49
Overall Result: N/A

Sample Matrix: Inhalable Concentrate
Batch Id: 0902191
Received: 09/23/2019 14:21

CULTIVATOR INFO

Business Name: Joy Organics
City: n/a
Zip Code: n/a

Street Address:
State:
License:

VITAMIN E ACETATE

TEST TYPE RESULT: N/A
UNIT OF MEASUREMENT: Micrograms per Gram(ug/g)

ANALYTE	RESULT	LOD	LLOQ	ANALYTE	RESULT	LOD	LLOQ
Vitamin E Acetate	ND	0.8000	2.000				

ADDITIONAL INFORMATION

Method: SOP-TECH-XX
Instrument:

Sample Prepped 09/25/2019 16:19
Sample Analyzed 09/25/2019 16:23

Sample Approved 09/27/2019 10:03

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

09/27/2019

Swetha Kaul, PhD
Chief Scientific Officer

Date

