



MD ORGANICS

CERTIFICATE OF QUALITY ASSURANCE

PRODUCT NAME: THC-Free Phytocannabinoid-Rich Hemp Oil

PRODUCT CODE: NO-4kg-BULK

LOT NUMBER: MRV010219B1 (Sales Order# TOSM-017-JH-K, 4,040 g cannabinoids, Total of 4,352.5 g Oil, divided into (2) 1 Gallon Jars)

OIL BATCH NUMBER: CONO18-100

DATE OF MANUFACTURE: 28Dec2018

Expiration date is 24 months under sealed conditions.

ACTIVE INGREDIENT: THC-Free Phytocannabinoid-Rich Hemp Oil

INACTIVE INGREDIENTS: N/A

Attributes	Acceptance Criteria	Results	Test Method
Appearance	Viscous Amber Oil Possible Crystal Formation	Conforms	QCU002
Odor	Characteristic	Conforms	QCU002
Color	Dark Amber	Conforms	QCU002
Dissolution	Not cloudy or turbid, characteristic color	Conforms	QCU002
Cannabinoid Content	80% total Phytocannabinoids, THC - report results	92.82% total Phytocannabinoids THC Not Detected	QCU001
Microbial Testing	Total Aerobic Count <2000 CFU/g Total Yeast & Mold <200 CFU/g	Conforms	USP<2021>

Package	Acceptance Criteria	Results
Primary Package	Container dedusted and wiped clean. Container caps screwed on tight	Conforms
Secondary Package	Carton Sturdy and clean. Sufficient cushion material exists. Carton taped on all sides	Conforms

Note: When sampling, manufacturing, or formulating with this oil, the oil MUST first be heated and liquefied at 70-75°C and mixed thoroughly. Attempting to sample the oil when it is in a semi-solid state will not result in accurate analytical results.

CONFIDENTIAL EXTRACTOR

CERTIFICATE OF INTERNAL ANALYSIS

TYPE: Phytocannabinoid-Rich Hemp Oil/ THC-free **TERPENE RESULTS*:**

BATCH No: CONO18-100

Date of Manufacture: 28Dec2018

Date of Analysis: 28Dec2018

POTENCY RESULTS:

Cannabinoid	Wt. (%)	(mg/g)
CBD	92.82	928.18
CBG	ND**	ND**
CBN	ND**	ND**
THC	ND**	ND**
CBC	ND**	ND**
THC-A	ND**	ND**
CBD-A	ND**	ND**
MAX THC	ND**	ND**
MAX CBD	92.82	928.18
TOTAL ACTIVE	92.82	928.18

Residual Solvents*:

Propane	Compliant with USP<467>	Pentane	Compliant with USP<467>
Isobutane	Compliant with USP<467>	Isopropanol	Compliant with USP<467>
Butane	Compliant with USP<467>	Hexane	Compliant with USP<467>
Ethanol	Compliant with USP<467>	Acetone	Compliant with USP<467>

Heavy Metals*:

Cadmium	Compliant with USP<233>
Lead	Compliant with USP<233>
Arsenic	Compliant with USP<233>
Mercury	Compliant with USP<233>

	Wt. (%)		Wt. (%)
β-Bisabolene	1.0-3.0	Camphene	0.1-0.2
β-Farnesene	1.0-2.0	E-Farnesene	0.1-0.2
Guaiol	0.5-2.0	Farnesol	0.1-0.2
β-Maaliene	0.5-2.0	α-Bisabolol	< 0.1
Calarene	0.5-1.5	P-Cymene	< 0.1
β-Caryophyllene	0.1-1.0	Linalool	< 0.1
α-Humulene	0.1-1.0	Myrcene	< 0.1
Cadinene	0.1-1.0	Phytol	< 0.1
α-Gurjunene	0.1-0.5	Isopulegol	< 0.1
d-Limonene	0.1-0.5	Terpinene	< 0.1
Nerolidol	0.1-0.5	Geraniol	< 0.1
α-Pinene	0.1-0.5	Myrcene	< 0.1
Aristolene	0.1-0.3	γ-Terpinene	< 0.1
Eucalyptol	0.1-0.2	δ-3-Carene	< 0.1

Pesticides*:

Acequinocyl	ND***	Spinosad	ND***
Pyrethrium	ND***	Spirotetramat	ND***
Spiromesifen	ND***	Bifenazate	ND***
Abamectin	ND***	Fenoxycarb	ND***
Imidacloprid	ND***	Paclobutrazol	ND***

Test ID: 122818KP

*Batches are sent out regularly for testing, not all batches tested

** ND = Not Detected using a validated high-performance liquid chromatography test method

*** Pesticides are tested by a third party lab, ND = Not Detected at the Reporting Limit (RL)



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

This is an amended version of the report# 065554-00.
Reason: Results reported in mg/113g (mg/4oz).

Product identity: PC200 422
Laboratory ID: 19-003076-0003

Client/Metric ID: .
Sample Date:

Summary

Potency:

Analyte per 113g	Result	Limits	Units	LOQ	
CBD per 113g	205		mg/113g	3.77	CBD-Total per 113g 205 mg/113g
					THC-Total per 113g < 7.074 mg/113g
					(Reported in milligrams per serving)

Pesticides:

All analytes passing and less than LOQ.

Metals:

Less than LOQ for all analytes.

Microbiology:

Less than LOQ for all analytes.



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Customer: My CBD Test
Product identity: PC200 422
Client/Metric ID: .
Sample Date:
Laboratory ID: 19-003076-0003
Relinquished by: Received By Mail
Temp: 15.2 °C
Serving Size #1: 113 g

Sample Results

Potency per 113g		Batch: 1902533					
Analyte	Result	Limits	Units	LOQ	Analyze	Method	Notes
CBC per 113g [†]	< LOQ		mg/113g	3.77	03/27/19	J AOAC 2015 V98-6	
CBC-A per 113g [†]	< LOQ		mg/113g	3.77	03/27/19	J AOAC 2015 V98-6	
CBC-Total per 113g [†]	< LOQ		mg/113g	7.07	03/27/19	J AOAC 2015 V98-6	
CBD per 113g	205		mg/113g	3.77	04/22/19	J AOAC 2015 V98-6	
CBD-A per 113g	< LOQ		mg/113g	3.77	03/27/19	J AOAC 2015 V98-6	
CBD-Total per 113g	205		mg/113g	7.07	04/22/19	J AOAC 2015 V98-6	
CBDV per 113g [†]	< LOQ		mg/113g	3.77	03/27/19	J AOAC 2015 V98-6	
CBDV-A per 113g [†]	< LOQ		mg/113g	3.77	03/27/19	J AOAC 2015 V98-6	
CBDV-Total per 113g [†]	< LOQ		mg/113g	7.03	03/27/19	J AOAC 2015 V98-6	
CBG per 113g [†]	< LOQ		mg/113g	3.77	03/27/19	J AOAC 2015 V98-6	
CBG-A per 113g [†]	< LOQ		mg/113g	3.77	03/27/19	J AOAC 2015 V98-6	
CBG-Total per 113g [†]	< LOQ		mg/113g	7.07	03/27/19	J AOAC 2015 V98-6	
CBL per 113g [†]	< LOQ		mg/113g	3.77	03/27/19	J AOAC 2015 V98-6	
CBN per 113g	< LOQ		mg/113g	3.77	03/27/19	J AOAC 2015 V98-6	
Δ8-THC per 113g [†]	< LOQ		mg/113g	3.77	03/27/19	J AOAC 2015 V98-6	
Δ9-THC per 113g	< LOQ		mg/113g	3.77	03/27/19	J AOAC 2015 V98-6	
THC-A per 113g	< LOQ		mg/113g	3.77	03/27/19	J AOAC 2015 V98-6	
THC-Total per 113g	< LOQ		mg/113g	7.07	03/27/19	J AOAC 2015 V98-6	
THCV per 113g [†]	< LOQ		mg/113g	3.77	03/27/19	J AOAC 2015 V98-6	
THCV-A per 113g [†]	< LOQ		mg/113g	3.77	03/27/19	J AOAC 2015 V98-6	
THCV-Total per 113g [†]	< LOQ		mg/113g	7.03	03/27/19	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	1902410	03/24/19	AOAC 991.14 (Petrifilm)	X
Total Coliforms	< LOQ		cfu/g	10	1902410	03/24/19	AOAC 991.14 (Petrifilm)	X
Mold	< LOQ		cfu/g	10	1902424	03/24/19	AOAC 2014.05 (RAPID)	X
Yeast	< LOQ		cfu/g	10	1902424	03/24/19	AOAC 2014.05 (RAPID)	X

Pesticides Method AOAC 2007.01 & EN 15662 (mod) Units mg/kg Batch 1902543 Analyze 03/27/19 09:10 AM

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	
Bifentazate	< 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							

Test results relate only to the parameters tested and to the samples as received by the laboratory. Test results meet all requirements of NELAP and the Pixis quality assurance plan unless otherwise noted. This report shall not be reproduced, except in full, without the written consent of this laboratory. Samples will be kept a maximum of 15 days from the report date unless prior arrangements have been made.



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

Metals								
Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Notes
Arsenic	< LOQ		mg/kg	0.0489	1902493	03/25/19	AOAC 2013.06	X
Cadmium	< LOQ		mg/kg	0.0489	1902493	03/25/19	AOAC 2013.06	X
Lead	< LOQ		mg/kg	0.0489	1902493	03/25/19	AOAC 2013.06	X
Mercury	< LOQ		mg/kg	0.0245	1902493	03/25/19	AOAC 2013.06	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

mg/113g = Milligram per 113g

% = Percentage of sample

% wt = $\mu\text{g/g}$ divided by 10,000

Glossary of Qualifiers

X: Not ORELAP accredited.

Approved Signatory

Derrick Tanner
General Manager