

CONFIDENTIAL EXTRACTOR

CERTIFICATE OF QUALITY ASSURANCE

PRODUCT NAME: THC-Free Phytocannabinoid-Rich Water Soluble Powder

PRODUCT CODE: WSP-NO-20%-BULK

LOT NUMBER: MRV071818WSP1 (Sales Order# TOSM-005-JH-S, 150 g cannabinoids, total of 729.93 g Water Soluble Powder)

BATCH NUMBER: COWSPA18-03

DATE OF MANUFACTURE: 18Jul2018

Expiration date is 18 months under sealed conditions.

ACTIVE INGREDIENTS: THC-Free Phytocannabinoid-Rich Hemp Oil

INACTIVE INGREDIENTS: Dextrin, Acacia Gum, Sunflower Lecithin, Vitamin E.

Attributes	Acceptance Criteria	Results	Test Method
Appearance	Amorphous powder	Conforms	QCU002 or QAU005
Odor	Characteristic	Conforms	QCU002 or QAU005
Color	Pale yellow to beige	Conforms	QCU002 or QAU005
Dissolution	Completely dissolves within timely manner	Conforms	QCU002 or QAU005
Cannabinoid Content	20% total Phytocannabinoids (2% Tolerance), THC Not Detected	20.55% total Phytocannabinoids, THC Not Detected	QCU001 or QAU005

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

Recommended Uses: For dissolution in water, dissolve powder into water at 50-60°C and mix very well. Maximum recommended solubility is 100 mg/fl oz for liquid formulations. For solid products, mix an appropriate amount until desired potency is reached. Keep at room temperature to preserve freshness. Store away from humidity, heat, and light.

CONFIDENTIAL EXTRACTOR

CERTIFICATE OF INTERNAL ANALYSIS

BATCH No: COWSPA18-03

TEST ID: 032318KM

TYPE: Phytocannabinoid-Rich Water Soluble Powder

DATE: 27Mar2018

POTENCY RESULTS:

Cannabinoid	Wt. (%)	(mg/g)
CBD	20.55	205.48
CBG	< 0.01	< 0.1
CBN	< 0.01	< 0.1
THC	ND**	ND**
CBC	< 0.01	< 0.1
THC-A	ND**	ND**
CBD-A	< 0.01	< 0.1
MAX THC	ND**	ND**
MAX CBD	20.55	205.48
TOTAL ACTIVE	20.55	205.48

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>

TERPENE RESULTS*:

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

Pesticides*

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

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

** ND = Not Detected

CERTIFICATE OF ANALYSIS

SAMPLE INFORMATION

Sample Name: Joy Organics Premium Hemp Energy Drink Happy Berry Flavor Lot 11000
Sample Matrix: Edible
Custom Id: 101577
Received: 07/08/2019 10:00
Servings Per Pkg: 1
Sample Id: 117179
Collected: 07/08/2019 09:47
Serving Size: 3 g
Overall Result: Pass

MANUFACTURER INFO

Business Name: MyCBDTest
City:
Zip Code: 80524
Street Address:
State:
License:

MICROBIAL ECOLI ANALYSIS

TEST TYPE RESULT: Pass
UNIT OF MEASUREMENT: Colony Forming Unit(CFU)

ANALYTE	RESULT	LOD	LLOQ	ACTION LEVEL	ANALYTE	RESULT	LOD	LLOQ	ACTION LEVEL
Ecoli	ND	0.0	0.0	100.0 Pass					

ADDITIONAL INFORMATION

Method: OR-SOP-TECH-006
Instrument:
Sample Prepped 07/08/2019 10:59
Sample Analyzed 07/08/2019 11:00
Sample Approved 07/09/2019 11:21

MICROBIAL SALMONELLA ANALYSIS

TEST TYPE RESULT: Pass
UNIT OF MEASUREMENT: Colony Forming Unit(CFU)

ANALYTE	RESULT	LOD	LLOQ	ACTION LEVEL	ANALYTE	RESULT	LOD	LLOQ	ACTION LEVEL
Salmonella	ND	0.0	0.0	0.0 Pass					

ADDITIONAL INFORMATION

Method: OR-SOP-TECH-008
Instrument:
Sample Prepped 07/08/2019 10:58
Sample Analyzed 07/08/2019 11:01
Sample Approved 07/09/2019 15:44





CERTIFICATE OF ANALYSIS

CANNABINOID ANALYSIS

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

TOTAL THC: 0.0 mg per serving (0.0 mg/g) (0.0 %)
TOTAL CBD: 13.66 mg per serving (3.348 mg/g) (0.3348 %)
TOTAL CANNABINOIDS: 13.66 mg per serving (3.348 mg/g) (0.3348 %)

TEST TYPE RESULT: N/A
UNIT OF MEASUREMENT: Milligrams per Gram(mg/g)

ANALYTE	RESULT	LOD	LLOQ	ANALYTE	RESULT	LOD	LLOQ
THCa	ND	0.0	0.0	D9THC	ND	0.0	0.0
D8THC	ND	0.0	0.0	THCv	ND	0.0	0.0
CBDa	ND	0.0	0.0	CBD	3.348 mg/g (0.3348 %)	0.0	0.0
CBDv	ND	0.0	0.0	CBC	ND	0.0	0.0
CBN	ND	0.0	0.0	CBG	ND	0.0	0.0
CBGa	ND	0.0	0.0				

ADDITIONAL INFORMATION

Method: OR-SOP-TECH-001
Instrument: HPLC-DAD

Sample Prepped 07/08/2019 11:00
Sample Analyzed 07/08/2019 11:00

Sample Approved 07/09/2019 10:59

CHEMICAL RESIDUE ANALYSIS

TEST TYPE RESULT: Pass
UNIT OF MEASUREMENT: Parts per Million(PPM)

ANALYTE	RESULT	LOD	LLOQ	ACTION LEVEL	ANALYTE	RESULT	LOD	LLOQ	ACTION LEVEL
Abamectin	ND	4.851	0.1288	0.5000 Pass	Chlorantraniliprole	ND	0.0125	0.0625	0.2000 Pass
Chlorfenapyr	ND	0.0250	0.0625	1.000 Pass	Cyfluthrin	ND	0.0625	0.1250	1.000 Pass
Etoxazole	ND	0.0050	0.0625	0.2000 Pass	Fenoxycarb	ND	0.0050	0.0250	0.2000 Pass
Fenpyroximate	ND	0.0625	0.6250	0.4000 Pass	Fonicamid	ND	0.0050	0.0125	1.000 Pass
Fludioxonil	ND	0.0250	0.0625	0.4000 Pass	Imazalil	ND	0.0050	0.0125	0.2000 Pass
Imidacloprid	ND	0.0050	0.0625	0.4000 Pass	KresoximMethyl	ND	0.0250	0.0625	0.4000 Pass
MGK-264	ND	0.0051	0.0625	0.2000 Pass	Malathion	ND	0.0050	0.0250	0.2000 Pass
Metalaxyl	ND	0.0050	0.0125	0.2000 Pass	Methiocarb	ND	0.0050	0.0125	0.2000 Pass
Methomyl	ND	0.0050	0.0250	0.4000 Pass	MethylParathion	ND	0.1250	0.0250	0.2000 Pass
Myclobutanil	ND	0.0050	0.0625	0.2000 Pass	Naled	ND	0.0125	0.0625	0.5000 Pass
Oxamyl	ND	5.00E-6	1.25E-5	0.0010 Pass	Pacllobutrazol	ND	0.0050	0.0250	0.4000 Pass
Permethrins	ND	0.0051	0.0404	0.2000 Pass	Phosmet	ND	0.0050	0.0125	0.2000 Pass
PiperonylButoxide	ND	0.0050	0.0625	2.000 Pass	Prallethrin	ND	0.0250	0.0625	0.2000 Pass
Propiconazole	ND	0.0050	0.0505	0.4000 Pass	Propoxur	ND	0.0050	0.0250	0.2000 Pass
Pyrethrins	ND	0.0245	0.1088	1.000 Pass	Spinosad	ND	0.0051	0.0214	0.2000 Pass
Spiromesifen	ND	0.0625	0.6250	0.2000 Pass	Spirotetramat	ND	0.0050	0.0625	0.2000 Pass
Spiroxamine	ND	0.0050	0.0250	0.4000 Pass	Tebuconazole	ND	0.0050	0.0125	0.4000 Pass
Thiacloprid	ND	0.0050	0.0625	0.2000 Pass	Thiamethoxam	ND	0.0050	0.0125	0.2000 Pass





CERTIFICATE OF ANALYSIS

Trifloxystrobin	ND	0.0050	0.0250	0.2000	Pass	Acephate	ND	0.0050	0.0125	0.4000	Pass
Acequinocyl	ND	0.1250	0.2500	2.000	Pass	Acetamiprid	ND	0.0050	0.0625	0.2000	Pass
Aldicarb	ND	0.0050	0.0250	0.4000	Pass	Azoxystrobin	ND	0.0050	0.0125	0.2000	Pass
Bifenazate	ND	0.0050	0.0125	0.2000	Pass	Bifenthrin	ND	0.0050	0.0625	0.2000	Pass
Boscalid	ND	0.0050	0.0625	0.4000	Pass	Carbaryl	ND	0.0125	0.1250	0.2000	Pass
Carbofuran	ND	0.0050	0.0250	0.2000	Pass	Chlorpyrifos	ND	0.0050	0.0250	0.2000	Pass
Clofentezine	ND	0.0050	0.0250	0.2000	Pass	Cypermethrin	ND	0.0250	0.0625	1.000	Pass
Daminozide	ND	0.0050	0.0250	1.000	Pass	Diazinon	ND	0.0050	0.0125	0.2000	Pass
Dichlorvos	ND	0.0250	0.0625	0.1000	Pass	Dimethoate	ND	0.0050	0.0125	0.2000	Pass
Ethoprophos	ND	0.0050	0.0250	0.2000	Pass	Etofenprox	ND	0.0050	0.0125	0.4000	Pass
Fipronil	ND	0.1250	0.1875	0.4000	Pass	Hexythiazox	ND	0.0050	0.0250	1.000	Pass
Pyridaben	ND	0.0050	0.0250	0.2000	Pass						

ADDITIONAL INFORMATION

Method: *OR-SOP-TECH-002*
Instrument:

Sample Prepped *07/08/2019 10:59*
Sample Analyzed *07/08/2019 11:00*

Sample Approved *07/09/2019 11:06*

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

07/16/2019

Stacey Anderson, PhD
Lab Director

Date



June 03, 2019

Order No. 506544
Sample No. 1027634

SAMPLE INFORMATION

Description Energy Drink
Lot Number 11000
Category (Type) Edible (Other)
Received May 31, 2019

ANALYTICAL RESULTS

Analysis Heavy Metal Screen ✔ Pass
Instrument ICP-MS
Method MF 24E020
Analysis Date May 31, 2019 to June 03, 2019

Analyte	LOD / LOQ (µg/g)	Findings (µg/g)	Limit (µg/g)	Status
Arsenic	0.02/0.05	<LOQ	1.5	Pass
Cadmium	0.02/0.05	ND	0.5	Pass
Lead	0.02/0.05	0.14	0.5	Pass
Mercury	0.02/0.05	ND	3.0	Pass

Reported by
Anresco, Inc.

ND = None Detected
<LOQ = Below Limit of Quantitation
<LOD = Below Limit of Detection



Yelena Bindman
Senior Chemist

June 03, 2019