# JOYORGANICS CERTIFICATE OF ANALYSIS

PRODUCT NAME:	
PRODUCT STRENGTH:	
TINCTURE BATCH:	
BEST BY DATE:	
HEMP EXTRACT LOT:	

Organia	CDD	Tincture		Mint
Organic	CDD	Inneture	_	TATUT

:	900mg
	230824G
	8/24/2025
	230202F

#### Physical Atttributes

Test	Method	Specification	Results
Color	Joy Internal	Golden to Amber	PASS
Odor	Joy Internal	Characteristic - Olive and Hemp, Minty	PASS
Appearance	Joy Internal	Golden to Amber oil in brown glass bottle with dropper.	PASS
Primary Package Eval.	Joy Internal Container clean and free of filth. Container caps tight and shrink bands intact		PASS
Secondary Package Eval.	Joy Internal	Labeling Compliance Checked, Cartons sturdy and clean. Sufficient cushion material exists. Box taped and secure.	PASS

#### Review of Third-Party Analysis

Panel	Method	Specification	Results*	Pass/Fail
Potency - Total CBD	HPLC-UV DAD	$LOQ^*: \ge 900 \text{ mg} / \text{bottle}$	1066mg	PASS
Potency - D9-THC	HPLC-UV DAD	LOQ: <0.01% (broad spectrum)	Below LOQ	PASS
Expanded Pesticide Panel	HPLC-QQQ	LOQ: Complies with CDPHE 6 CCR 1010-21 Industrial Hemp Extract	Below LOQ	PASS
<b>Microbial</b> Escherichia coli (STEC)	PCR	Complies with CDPHE 6 CCR 1010-21 - LOQ 1 CFU/25 gram**	Absent	PASS
<b>Microbial</b> Salmonella	PCR	Complies with CDPHE 6 CCR 1010-21 - LOQ 1 CFU/25 gram	Absent	PASS
Microbial Yeast and Mold	Culture Plating	Complies with CDPHE 6 CCR 1010-21 - LOQ 10^2 CFU/gram	Below LOQ	PASS
<b>Microbial</b> Total Coliforms	Culture Plating	Complies with CDPHE 6 CCR 1010-21 - LOQ 10^2 CFU/gram	Below LOQ	PASS
Microbial Total Aerobic Count	Culture Plating	Complies with CDPHE 6 CCR 1010-21 - LOQ 10^3 CFU/gram	Below LOQ	PASS
Heavy Metals	ICP-MS	Arsenic (As): ≤1.5 ppm† Cadmium (Cd): ≤0.5 ppm Lead (Pb): ≤0.5 ppm Mercury (Hg): ≤1.5 ppm	Below LOQ	PASS
Mycotoxins	ICP-MS	Total Aflatoxins <20 ppb†† Afltoxin B1 < 5 ppb Ochratoxin < 5ppb	Below LOQ	PASS
Residual Solvents	GC-HS-MSD	LOQ: Complies with CDPHE 6 CCR 1010-21 Industrial Hemp Extract	Below LOQ	PASS
Level of Quantification *Colony Forming Units per Gram Parts Per Million †† Part Per Billion	•	Ouality Certified	nl Or	9/7/2023

Quality Certified Name

Date

Values expressed in scientific notation. Examples: 10^2=100 10^3=1,000



Batch ID or Lot Number: 230824G	Test: <b>Potency</b>	Reported: 10Feb2023	USDA License: N/A
Matrix:	Test ID:	Started:	Sampler ID:
Concentrate	T000235005	09Feb2023	N/A
	Method(s):	Received:	Status:
	TM14 (HPLC-DAD): Potency – Standard Cannabinoid Analysis	08Feb2023	Active

Cannabinoids	LOD (%)	LOQ (%)	Result (%)	Result (mg/g)	N
Cannabichromene (CBC)	0.007	0.021	<loq< td=""><td><loq< td=""><td></td></loq<></td></loq<>	<loq< td=""><td></td></loq<>	
Cannabichromenic Acid (CBCA)	0.007	0.019	ND	ND	
Cannabidiol (CBD)	0.017	0.057	3.864	38.64	
Cannabidiolic Acid (CBDA)	0.018	0.058	ND	ND	
Cannabidivarin (CBDV)	0.004	0.013	0.019	0.19	
Cannabidivarinic Acid (CBDVA)	0.007	0.024	ND	ND	
Cannabigerol (CBG)	0.004	0.012	0.246	2.46	
Cannabigerolic Acid (CBGA)	0.017	0.049	ND	ND	
Cannabinol (CBN)	0.005	0.015	ND	ND	
Cannabinolic Acid (CBNA)	0.012	0.034	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.020	0.059	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.019	0.053	ND	ND	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.016	0.047	ND	ND	
Tetrahydrocannabivarin (THCV)	0.004	0.011	<loq< td=""><td><loq< td=""><td></td></loq<></td></loq<>	<loq< td=""><td></td></loq<>	
Tetrahydrocannabivarinic Acid (THCVA)	0.014	0.042	ND	ND	
Total Cannabinoids			4.129	41.29	
Total Potential THC			ND	ND	
Total Potential CBD			3.864	38.64	

## **Final Approval**

PREPARED BY / DATE

Karen Winternheimer 10Feb2023 08:49:00 AM MST

amantha

Sam Smith 10Feb2023 09:17:00 AM MST



APPROVED BY / DATE

https://results.botanacor.com/api/v1/coas/uuid/e4bb28cc-85f7-4980-8078-ea62742dbc32

#### Definitions

% = % (w/w) = Percent (weight of analyte / weight of product). ND = None Detected (defined by dynamic range of the method). Total Potential Delta 9-THC or CBD is calculated to take into account the loss of a carboxyl group during decarboxylation step, using the following formulas: Total Potential Delta 9-THC = Delta 9-THC + (Delta 9-THCa \*(0.877)) and Total CBD = CBD + (CBDa \*(0.877)).

Testing results are based solely upon the sample submitted to SC Laboratories, Inc., in the condition it was received. SC Laboratories, Inc., warrants that all analytical work is conducted professionally in accordance with all applicable standard laboratory practices using validated methods. Data was generated using an unbroken chain of comparison to NIST traceable Reference Standards and Certified Reference Materials. This report may not be reproduced, except in full, without the written approval of SC Laboratories, Inc. ISO/IEC 17025:2017 Accredited by A2LA.







Batch ID or Lot Number:	Test:	Reported:	USDA License:	
230824G	<b>Pesticides</b>	10Feb2023	NA	
Matrix:	Test ID:	Started:	Sampler ID:	
Concentrate	T000235006	08Feb2023	NA	
	Method(s): TM17 (LC-QQ LC MS/MS)	Received: 08Feb2023	Status: NA	

Pesticides	Dynamic Range (ppb)	Result (ppb)		Dynamic Range (ppb)	Result (ppb)
Abamectin	358 - 2647	ND	Malathion	280 - 2717	ND
Acephate	42 - 2759	ND	Metalaxyl	46 - 2718	ND
Acetamiprid	43 - 2753	ND	Methiocarb	41 - 2688	ND
Azoxystrobin	44 - 2729	ND	Methomyl	43 - 2762	ND
Bifenazate	43 - 2722	ND	MGK 264 1	154 - 1645	ND
Boscalid	45 - 2744	ND	MGK 264 2	116 - 1140	ND
Carbaryl	43 - 2719	ND	Myclobutanil	45 - 2763	ND
Carbofuran	44 - 2734	ND	Naled	43 - 2762	ND
Chlorantraniliprole	43 - 2726	ND	Oxamyl	41 - 2766	ND
Chlorpyrifos	53 - 2824	ND	Paclobutrazol	40 - 2726	ND
Clofentezine	275 - 2769	ND	Permethrin	313 - 2795	ND
Diazinon	292 - 2733	ND	Phosmet	44 - 2709	ND
Dichlorvos	275 - 2786	ND	Prophos	312 - 2672	ND
Dimethoate	41 - 2737	ND	Propoxur	41 - 2724	ND
E-Fenpyroximate	293 - 2797	ND	Pyridaben	313 - 2786	ND
Etofenprox	41 - 2790	ND	Spinosad A	35 - 2253	ND
Etoxazole	309 - 2762	ND	Spinosad D	52 - 508	ND
Fenoxycarb	47 - 2690	ND	Spiromesifen	292 - 2770	ND
Fipronil	56 - 2762	ND	Spirotetramat	274 - 2731	ND
Flonicamid	43 - 2825	ND	Spiroxamine 1	16 - 1206	ND
Fludioxonil	318 - 2756	ND	Spiroxamine 2	21 - 1539	ND
Hexythiazox	45 - 2799	ND	Tebuconazole	277 - 2724	ND
Imazalil	288 - 2739	ND	Thiacloprid	44 - 2774	ND
Imidacloprid	41 - 2755	ND	Thiamethoxam	42 - 2785	ND
Kresoxim-methyl	23 - 2807	ND	Trifloxystrobin	44 - 2758	ND

# **Final Approval**

PREPARED BY / DATE

Karen Winternheimer 10Feb2023 06:26:00 AM MST

amantha

APPROVED BY / DATE

Sam Smith 10Feb2023 06:29:00 AM MST



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**Definitions** ND = None Detected (defined by dynamic range of the method)

Dynamic Range = Limit of Quantitation (LOQ) through Upper Limit of Method Range ppb = Parts Per Billion

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Batch ID or Lot Number: 230824G	Test: Mycotoxins	Reported: <b>17Feb2023</b>	USDA License: N/A
2308240	Mycotoxins	17Feb2025	N/A
Matrix:	Test ID:	Started:	Sampler ID:
Concentrate	T000235010	16Feb2023	N/A
	Method(s):	Received:	Status:
	TM18 (UHPLC-QQQ LCMS/MS):	08Feb2023	Active
	Mycotoxins		
Mycotoxins	<b>Dynamic Range</b> (ppb)	<b>Result</b> (ppb)	Notes
Ochratoxin A	2.11 - 136.71	ND	N/A
Aflatoxin B1	0.59 - 33.50	ND	
Aflatoxin B2	0.62 - 33.47	ND	
Aflatoxin G1	0.59 - 33.93	ND	
Aflatoxin G2	0.65 - 34.06	ND	
Total Aflatoxins (B1, B2, G1, and	d G2)	ND	

## **Final Approval**

PREPARED BY / DATE

Samanthe Sm

Sam Smith 17Feb2023 06:47:00 AM MST

APPROVED BY / DATE

Karen Winternheimer 17Feb2023 06:51:00 AM MST



https://results.botanacor.com/api/v1/coas/uuid/8adf24f2-34e6-44dd-8d1b-f89154be533c

Definitions

ND = None Detected (defined by dynamic range of the method) Dynamic Range = Limit of Quantitation (LOQ) through Upper Limit of Method Range

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## 900mg BS OEVOO Barrel Formulation

Batch ID or Lot Number:	Test:	Reported:	USDA License:
230824G	<b>Residual Solvents</b>	<b>09Feb2023</b>	N/A
Matrix:	Test ID:	Started:	Sampler ID:
Concentrate	T000235009	08Feb2023	N/A
	Method(s):	Received:	Status:
	TM04 (GC-MS): Residual Solvents	08Feb2023	Active

<b>Residual Solvents</b>	Dynamic Range (ppm)	Result (ppm)	Notes
Propane	105 - 2098	ND	
Butanes (Isobutane, n-Butane)	217 - 4346	ND	
Methanol	68 - 1351	ND	
Pentane	110 - 2196	ND	
Ethanol	113 - 2258	ND	
Acetone	109 - 2184	ND	
lsopropyl Alcohol	113 - 2268	ND	
Hexane	6 - 130	ND	
Ethyl Acetate	110 - 2207	ND	
Benzene	0.2 - 4.4	ND	
Heptanes	108 - 2165	ND	
Toluene	20 - 403	ND	
Xylenes (m,p,o-Xylenes)	152 - 3047	ND	

# **Final Approval**

PREPARED BY / DATE

Karen Winternheimer 09Feb2023 07:32:00 AM MST

amantha "

Sam Smith 09Feb2023 07:35:00 AM MST



APPROVED BY / DATE

https://results.botanacor.com/api/v1/coas/uuid/7521691a-e463-4625-88ca-1134035c1aa3

Definitions

ND = None Detected (defined by dynamic range of the method) Dynamic Range = Limit of Quantitation (LOQ) through Upper Limit of Method Range

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Batch ID or Lot Number:	Test:	Reported:	USDA License:
230824G	<b>Heavy Metals</b>	<b>15Feb2023</b>	NA
Matrix:	Test ID:	Started:	Sampler ID:
Unit Co	T000235008	10Feb2023	NA
	Method(s):	Received:	Status:
	TM19 (ICP-MS): Heavy Metals	08Feb2023	NA

Heavy Metals	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.06 - 5.87	ND	
Cadmium	0.06 - 5.98	ND	-
Mercury	0.06 - 5.83	ND	
Lead	0.06 - 6.02	ND	0

# **Final Approval**

Samantha Sma

Sam Smith 15Feb2023 09:39:00 AM MST

APPROVED BY / DATE

Karen Winternheimer 15Feb2023 09:42:00 AM MST



https://results.botanacor.com/api/v1/coas/uuid/eb519af1-3e71-468f-b7ed-5e31ec7d6e5f

Definitions

PREPARED BY / DATE

ND = None Detected (defined by dynamic range of the method) Dynamic Range = Limit of Quantitation (LOQ) through Upper Limit of Method Range

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Batch ID or Lot Number: <b>230824G</b>	Test: <b>Microbial Contaminants</b>		Reported: 01Sep2023		USDA License: N/A
Matrix:	Test ID:	Test ID:			Sampler ID:
Finished Product	T000254485		29Aug2023		N/A
	Method(s):		Received:		Status:
	TM25 (qPCR) TM24, TM26, TM27 (Culture Plating): Microbial (Colorado Panel)		28Aug2023		Active
Microbial			0		
Contaminants	Method	LOD	Quantitation Range	Result	Notes
STEC	TM25: PCR	10 <sup>0</sup> CFU/25g	NA	Absent	Free from visual mold, mildew, an foreign matter
Salmonella	TM25: PCR	10 <sup>0</sup> CFU/25g	NA	Absent	
Total Yeast and Mold*	TM24: Culture Plating	10 <sup>1</sup> CFU/g	1.0x10 <sup>2</sup> - 1.5x10 <sup>4</sup>	None Detected	
Total Aerobic Count*	TM26: Culture Plating	10 <sup>2</sup> CFU/g	1.0x10 <sup>3</sup> - 1.5x10 <sup>5</sup>	None Detected	
Total Coliforms*	TM27: Culture Plating	10 <sup>1</sup> CFU/g	1.0x10 <sup>2</sup> - 1.5x10 <sup>4</sup>	None Detected	

## **Final Approval**

Branne Maillot

**Brianne Maillot** 01Sep2023

Eden Thompson

Eden Thompson-Wright 01Sep2023 12:24:00 PM MDT



PREPARED BY / DATE

11:29:00 AM MDT

APPROVED BY / DATE

https://results.botanacor.com/api/v1/coas/uuid/e9a5b8f5-4e91-4e6a-88e6-7c8f6199e747

Definitions

\* Values recorded in scientific notation, a common microbial practice of expressing numbers that are too large to be conveniently written in decimal form. Examples:  $10^2 = 100 \text{ CFU}$ ,  $10^3 = 1,000 \text{ CFU}$ ,  $10^4 = 10,000 \text{ CFU}$ ,  $10^5 = 100,000 \text{ CFU}$ CFU/g = Colony Forming Units per Gram, LOD = Limit of Detection

ULOQ = Upper Limit of Quantitation, LLOQ = Lower Limit of Quantitation STEC = Shiga Toxin-Producing E. coli

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