# JOYORGANICS

# **CERTIFICATE OF ANALYSIS**

PRODUCT NAME:	Organic CBD Salve
PRODUCT STRENGTH:	500mg / jar
BATCH:	210201295
BEST BY DATE:	10/26/2024
HEMP EXTRACT LOT:	210201295

## Physical Atttributes

Test	Method	Specification	Results
Color	Joy Internal	Light off white to yellow opaque, hint of green	PASS
Odor	Joy Internal	Lavender, eucalyptus, hint of beeswax and coconut	PASS
Appearance	Joy Internal	Firm, semi-waxy salve in container with screw lid	PASS
Primary Package Eval.	Joy Internal	Container clean and free of filth. Container caps tight and pressure seal is 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	$LOQ^{**}$ : $\geq 1000 \text{ mg} / \text{jar}$	571mg	PASS
Potency - D9-THC	HPLC-UV DAD	LOQ: <0.01% THC (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	Absent	PASS
<b>Microbial</b> Salmonella	PCR	Complies with CDPHE 6 CCR 1010-21 - LOQ 1 CFU/25 gram	Absent	PASS
<b>Microbial</b> 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
<b>Residual Solvents</b>	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

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

2519 S. Shields St. #1042, Fort Collins, CO 80526 Tel: (833) 569-7223 www.joyorganics.com

Name

Quality Certified

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11/22/2022

Date



# Official Compliance: Colorado Hemp CERTIFICATE OF ANALYSIS

DATE ISSUED 11/19/2022

#### SAMPLE NAME: OS10Z500-210201295

SAMPLE DETAIL

Batch Number: 210201295 Sample ID: 221117M057 Date of Sampling: 11/17/2022 Time of Sampling: 11:52 a.m. Date Collected: 11/17/2022 Date Received: 11/17/2022 Batch

Size: Sample Size: Unit Mass: 25.9g







Scan QR code to verify authenticity of results.

CANNABINOID ANALYSIS -SUMMARY

Total THC: Not Detected Total CBD: 571 mg/unit Total THC/CBD is calculated using the following formulas to take into account the loss of a carboxyl group during the decarboxylation step: Total THC -11<sup>9</sup>.THC + (THCa (0.877)) Total CBD -CBD + (CBDa (0.877)) Sum of Cannabinoids -11<sup>9</sup>.THC + THCa + CBD + CBDa + CBG + CBGa + THCV + THCVa + CBC + CBCa + CBDV + CBDVa + 11<sup>8</sup>.THC + CBL + CBN

These results relate only to the sample included on this report.

This report shall not be reproduced, except in full, without written approval of the laboratory. Sample Certification: 6 CCR 1010-21 Colorado Wholesale Food, Industrial Hemp,

and Shellfish Regulations; where applicable

Decision Rule: Statements of conformity (e.g. Pass/Fail) to specifications are made in this report without taking measurement uncertainty into account. Where statements of conformity are made in this report, the following decision rules are applied: PASS - Results within limits/specifications, FAIL - Results exceed limits/specifications. References: limit of detection (LOD), limit of quantification (LOQ), not detected (ND), not tested (NT)

Approved by: Josh Wurzer

LQC verified by: Michael Pham Job Title: Senior Laboratory Analyst Date: 11/19/2022

Analyst Date: 11/19/2022

SC Laboratories California LLC. | 100 Pioneer Street, Suite E, Santa Cruz, CA 95060 | (866) 435-0709 | sclabs.com | CDPHE Certified | ISO/IES 17025:2017 PJLA Accreditation Number 87168 © 2022 SC Labs all rights reserved. Trademarks referenced are trademarks of either SC Labs or their respective owners. MKT0002 REV9 2/22 CoA ID: 221117M057-001 Summary Page



## Official Compliance: Colorado Hemp CERTIFICATE OF ANALYSIS

OS10Z500-210201295 DATE ISSUED 11/19/2022





Tested by high-performance liquid chromatography with diode-array detection (HPLC-DAD).

Method: QSP 1157 - Analysis of Cannabinoids by HPLC-DAD

TOTAL THC: Not Detected

Total THC (Δ<sup>9</sup>-THC+0.877\*THCa)

### TOTAL CBD: 571 mg/unit

Total CBD (CBD+0.877\*CBDa)

#### TOTAL CANNABINOIDS: 705.630 mg/unit

 $\begin{array}{l} \mbox{Total Cannabinoids} (\mbox{Total THC}) + (\mbox{Total CBD}) + (\mbox{Total CBG}) + (\mbox{Total THCV}) + (\mbox{Total CBC}) + (\mbox{Total CBDV}) + \mbox{$\Delta^{B}$-THC} + \mbox{$CBL$} \\ \end{tabular} \end{array}$ 

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### CANNABINOID TEST RESULTS - 11/18/2022

COMPOUND	LOD/LOQ (mg/g)	MEASUREMENT UNCERTAINTY (mg/g)	RESULT (mg/g)	RESULT (%)
CBD	0.004/0.011	±0.8224	22.047	2.2047
CBG	0.002/0.006	±0.0630	1.299	0.1299
CBDV	0.002/0.012	±0.0055	0.136	0.0136
CBL	0.003/0.010	±0.0007	0.020	0.0020
СВС	0.003/0.010	±0.0006	0.019	0.0019
Δ <sup>9</sup> -THC	0.002/0.014	N/A	ND	ND
Δ <sup>8</sup> -THC	0.01/0.02	N/A	ND	ND
THCa	0.001 / 0.005	N/A	ND	ND
THCV	0.002/0.012	N/A	ND	ND
THCVa	0.002/0.019	N/A	ND	ND
CBDa	0.001/0.026	N/A	ND	ND
CBDVa	0.001/0.018	N/A	ND	ND
CBGa	0.002/0.007	N/A	ND	ND
CBN	0.001 / 0.007	N/A	ND	ND
CBCa	0.001/0.015	N/A	ND	ND
Total THC		N/A	ND	ND
SUM OF CANNA	BINOIDS		23.521 mg/g	2.3521%

#### Unit Mass: 30 grams per Unit

Δ <sup>9</sup> -THC per Unit	ND
Total THC per Unit	ND
CBD per Unit	571 mg/unit
Total CBD per Unit	571 mg/unit
Sum of Cannabinoids per Unit	608 mg/unit
Total Cannabinoids per Unit	608 mg/unit





## OS1OZ500

Batch ID or Lot Number:	Test:	Reported:	USDA License:
210201295	Mycotoxins	09Nov2022	N/A
Matrix:	Test ID:	Started:	Sampler ID:
Concentrate	T000226219	08Nov2022	N/A
	Method(s):	Received:	Status:
	TM18 (UHPLC-QQQ LCMS/MS):	01Nov2022	Active
	Mycotoxins		
Mycotoxins	<b>Dynamic Range</b> (ppb)	<b>Result</b> (ppb)	Notes
Ochratoxin A	3.97 - 131.26	ND	N/A
Aflatoxin B1	0.94 - 32.61	ND	
Aflatoxin B2	0.94 - 32.84	ND	
Aflatoxin G1	1.01 - 33.00	ND	
Aflatoxin G2	1.04 - 33.39	ND	
Total Aflatoxins (B1, B2, G1, and G2)		ND	

# **Final Approval**

PREPARED BY / DATE

Samantha ma

Sam Smith 09Nov2022 07:30:00 AM MST

APPROVED BY / DATE

Karen Winternheimer 09Nov2022 07:36:00 AM MST



https://results.botanacor.com/api/v1/coas/uuid/0a4b0a29-fffc-465f-94ad-a8f831f69c37

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

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.



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# CERTIFICATE OF ANALYSIS

Notes

# **OS1OZ500**

Batch ID or Lot Number: <b>210201295</b>	Test, Test ID and Methods: Various	Matrix: Concentrate	Page 2 of 4	
Reported: <b>02Nov2022</b>	Started: 02Nov2022	Received: 01Nov2022		

## **Pesticides**

Test ID: T000226215

(LC-QQ LC MS/MS)	<b>Dynamic Range</b> (ppb)	Result (ppb)		<b>Dynamic Range</b> (ppb)	Result (ppb)
Abamectin	347 - 2834	ND	Malathion	280 - 2714	ND
Acephate	40 - 2789	ND	Metalaxyl	41 - 2751	ND
Acetamiprid	40 - 2739	ND	Methiocarb	42 - 2712	ND
Azoxystrobin	40 - 2728	ND	Methomyl	37 - 2759	ND
Bifenazate	40 - 2740	ND	MGK 264 1	171 - 1610	ND
Boscalid	24 - 2691	ND	MGK 264 2	119 - 1152	ND
Carbaryl	41 - 2714	ND	Myclobutanil	32 - 2701	ND
Carbofuran	41 - 2728	ND	Naled	43 - 2724	ND
Chlorantraniliprole	38 - 2701	ND	Oxamyl	39 - 2754	ND
Chlorpyrifos	46 - 2777	ND	Paclobutrazol	41 - 2716	ND
Clofentezine	279 - 2740	ND	Permethrin	280 - 2784	ND
Diazinon	283 - 2727	ND	Phosmet	43 - 2726	ND
Dichlorvos	155 - 2662	ND	Prophos	294 - 2723	ND
Dimethoate	39 - 2722	ND	Propoxur	42 - 2717	ND
E-Fenpyroximate	284 - 2765	ND	Pyridaben	311 - 2726	ND
Etofenprox	41 - 2788	ND	Spinosad A	30 - 2236	ND
Etoxazole	296 - 2775	ND	Spinosad D	46 - 503	ND
Fenoxycarb	34 - 2706	ND	Spiromesifen	264 - 2798	ND
Fipronil	36 - 2830	ND	Spirotetramat	289 - 2729	ND
Flonicamid	41 - 2750	ND	Spiroxamine 1	18 - 1170	ND
Fludioxonil	293 - 2728	ND	Spiroxamine 2	22 - 1529	ND
Hexythiazox	41 - 2789	ND	Tebuconazole	294 - 2713	ND
Imazalil	256 - 2752	ND	Thiacloprid	39 - 2731	ND
Imidacloprid	42 - 2718	ND	Thiamethoxam	38 - 2767	ND
Kresoxim-methyl	41 - 2792	ND	Trifloxystrobin	42 - 2729	ND

## **Final Approval**

PREPARED BY / DATE

Karen Winternheimer 04Nov2022 Wittenheimen 08:49:00 AM MDT

Samantha Smith 04Nov2022 08:53:00 AM MDT

APPROVED BY / DATE

Sam Smith

## Heavy Metals -**Colorado Compliance**

Test ID: T000226217 Methods: TM19 (ICP-MS): Heavy Result (ppm) Metals Dynamic Range (ppm) Arsenic 0.04 - 4.17 ND Cadmium 0.04 - 4.21 ND Mercury 0.04 - 4.14 ND Lead 0.04 - 4.02 ND

## **Final Approval**

Sam Smith 03Nov2022 Somenthe Smith 03Nov2022 09:29:00 AM MDT PREPARED BY / DATE

Phila

APPROVED BY / DATE

Phillip Travisano 03Nov2022 10:09:00 AM MDT



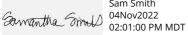
# **OS1OZ500**

Batch ID or Lot Number: <b>210201295</b>	Test, Test ID and Methods: Various	Matrix: Concentrate	Page 3 of 4	
Reported: <b>02Nov2022</b>	Started: 02Nov2022	Received: 01Nov2022		

## **Residual Solvents -Colorado Compliance**

Test ID: T000226218			
Methods: TM04 (GC-MS): Residual Solvents	Dynamic Range (ppm)	<b>Result</b> (ppm)	Notes
Propane	88 - 1762	ND	
Butanes (lsobutane, n-Butane)	178 - 3563	ND	
Methanol	63 - 1264	ND	
Pentane	101 - 2014	ND	
Ethanol	98 - 1963	ND	
Acetone	102 - 2042	ND	
Isopropyl Alcohol	106 - 2125	ND	
Hexane	6 - 122	ND	
Ethyl Acetate	104 - 2088	ND	
Benzene	0.2 - 4.2	ND	
Heptanes	106 - 2129	ND	
Toluene	18 - 366	ND	
Xylenes (m,p,o-Xylenes)	136 - 2711	ND	

## **Final Approval**



Sam Smith

APPROVED BY / DATE

Karen Winternheimer 04Nov2022 02:07:00 PM MDT

PREPARED BY / DATE





# OS1OZ500

Batch ID or Lot Number:	Test, Test ID and Methods:	Matrix:	Page 4 of 4
<b>210201295</b>	Various	Concentrate	
Reported:	Started:	Received:	
<b>02Nov2022</b>	02Nov2022	01Nov2022	

## Microbial Contaminants -Colorado Compliance

Test ID: T000226216 Methods: TM25 (qPCR) TM24, TM26,

TM27 (Culture Plating): Microbial			Quantitation		
(Colorado Panel)	Method	LOD	Range	Result	Notes
STEC	TM25: PCR	10 <sup>0</sup> CFU/25g	NA	Absent	Free from visual mold, mildew, and 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	-
					-

Brianne Maillot

04:52:00 PM MDT

04Nov2022

### **Final Approval**

PREPARED BY / DATE

Kett Telun

Brett Hudson 04Nov2022 04:46:00 PM MDT

Buanne Maillot

APPROVED BY / DATE

Definitions

https://results.botanacor.com/api/v1/coas/uuid/ba3dde64-96df-4f93-8b4b-a935d7848fa3

LOD = Limit of Detection, ULOQ = Upper Limit of Quantitation, LLOQ = Lower Limit of Quantitation, PPB = Parts per Billion, % = % (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)). Fail equates to a concentration level of Delta 9-THC, on a dry weight basis, higher than 0.3 percent + or – the measurement uncertainty. Total Potential THC is calculated by dynamic range of the method) during decarboxylation step. Total THC = THC + (THCa \*(0.877)). ALOQ = Above Limit of Quantitation (defined by dynamic range of the method), CFU/g = Colony Forming Units per Gram. 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 CFU, 10^3 = 1,000 CFU, 10^4 = 10,000 CFU.

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