CERTIFICATE OF ANALYSIS

PRODUCT NAME: *Certified Organic CBD Salve

PRODUCT STRENGTH: 1000 mg / iar

BATCH: 21263-19 **BEST BY DATE:** 09/22/2023 CO624-001 **HEMP EXTRACT LOT:**

Click on the links to view third-party reports

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**: ≥ 1000 mg / jar	1,109.92 mg	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
Microbial Escherichia coli (STEC)	PCR	Complies with CDPHE 6 CCR 1010-21 - LOQ 1 ***CFU/25 gram	Absent	PASS
Microbial 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
Microbial 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

^{*}The organic status only applies to products with certified labels **Level of Quantification

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

Quality Certified

Kayla Kolber Kayla Kolber

10/06/2021

Date

^{***}Colony Forming Units per Gram † Parts Per Million †† Part Per Billion



Official Compliance: Colorado CERTIFICATE OF ANALYSIS

21263-19

Batch ID or Lot Number: Test: Reported: OSOZ1000 10/4/21 **Potency**

Matrix: Test ID: Started: **USDA License:**

T000165845 9/30/21 Concentrate N/A

Sampler ID: Status: Method: Received:

TM14 (HPLC-DAD): Potency - Broad N/A 09/27/2021 @ 11:16 AM N/A Spectrum Analysis, 0.01% THC

(Colorado Panel)

CANNARINOID PROFILE

Compound	LOD (%)	LOQ (%)	Result (%)	Result (mg/g)	Notes
Delta 9-Tetrahydrocannabinolic acid (THCA-A)	0.003	0.009	ND	ND	Notes
Delta 9-Tetrahydrocannabinol (Delta 9THC)	0.004	0.010	0.006*	0.06*	N/A
Cannabidiolic acid (CBDA)	0.017	0.060	ND	ND	Density: 0.988 g/
Cannabidiol (CBD)	0.017	0.059	1.982	19.82	z enony, orseo g
Delta 8-Tetrahydrocannabinol (Delta 8THC)	0.026	0.065	ND	ND	
Cannabinolic Acid (CBNA)	0.015	0.037	ND	ND	
Cannabinol (CBN)	0.007	0.017	ND	ND	
Cannabigerolic acid (CBGA)	0.022	0.055	ND	ND	
Cannabigerol (CBG)	0.005	0.013	0.148	1.48	
Tetrahydrocannabivarinic Acid (THCVA)	0.018	0.046	ND	ND	
Tetrahydrocannabivarin (THCV)	0.005	0.012	ND	ND	
Cannabidivarinic Acid (CBDVA)	0.007	0.025	ND	ND	
Cannabidivarin (CBDV)	0.004	0.014	0.012*	0.12*	
Cannabichromenic Acid (CBCA)	0.008	0.021	ND	ND	
Cannabichromene (CBC)	0.009	0.023	ND	ND	
Total Cannabinoids			2.148	21.48	
Total Potential THC**			0.006	0.06	

Total Potential CBD**

Hannah Wright 04-Oct-2021 06:13 PM

Daniel Wardensaul

Daniel Weidensaul 4-Oct-21 6:15 PM

19.82

1.982

PREPARED BY / DATE

APPROVED BY / DATE

Definitions

% = % (w/w) = Percent (Weight of Analyte / Weight of Product)

* Indicates a value below the Limit of Quantitiation (LOQ) and above the Limit of Detection (LOD).

** Total Potential THC/CBD is calculated using the following formulas to take into account the loss of a carboxyl group during decarboxylation step.

Total THC = THC + (THCa *(0.877)) and

Total CBD = CBD + (CBDa *(0.877))

Total Cannabinoids result reflects the absolute sum of all cannabinoids detected.

ND = None Detected (Defined by Dynamic Range of the method)

Testing results are based solely upon the sample submitted to Botanacor Laboratories, LLC, in the condition it was received. Botanacor Laboratories, LLC 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 Botanacor Laboratories, LLC.











21263-19

Batch ID or Lot Number: OSOZ1000	Test: Pesticides	Reported: 9/29/21		
Matrix:	Test ID:	Started:	USDA License:	
Concentrate	T000165846	9/28/21	N/A	
Status:	Method:	Received:	Sampler ID:	
N/A	TM17(LC-QQQ LC MS/MS):	09/27/2021 @ 11:16 AM	N/A	

PESTICIDE DETERMINATION

Compound	LOQ (ppb)	Result (ppb)	Compound	LOQ (ppb)	Result (ppb)	Compound	LOQ (ppb)	Result (ppb)
Acephate	41	ND	Fenoxycarb	42	ND	Paclobutrazol	42	ND
Acetamiprid	40	ND	Fipronil	33	ND	Permethrin	287	ND
Avermectin	316	ND	Flonicamid	51	ND	Phosmet	43	ND
Azoxystrobin	43	ND	Fludioxonil	295	ND	Prophos	293	ND
Bifenazate	46	ND	Hexythiazox	47	ND	Propoxur	41	ND
Boscalid	54	ND	Imazalil	284	ND	Pyridaben	298	ND
Carbaryl	39	ND	Imidacloprid	42	ND	Spinosad A	35	ND
Carbofuran	41	ND	Kresoxim-methyl	150	ND	Spinosad D	54	ND
Chlorantraniliprole	53	ND	Malathion	299	ND	Spiromesifen	272	ND
Chlorpyrifos	500	ND	Metalaxyl	43	ND	Spirotetramat	305	ND
Clofentezine	285	ND	Methiocarb	42	ND	Spiroxamine 1	18	ND
Diazinon	290	ND	Methomyl	44	ND	Spiroxamine 2	24	ND
Dichlorvos	290	ND	MGK 264 1	160	ND	Tebuconazole	290	ND
Dimethoate	42	ND	MGK 264 2	136	ND	Thiacloprid	41	ND
E-Fenpyroximate	317	ND	Myclobutanil	40	ND	Thiamethoxam	43	ND
Etofenprox	44	ND	Naled	44	ND	Trifloxystrobin	43	ND
Etoxazole	307	ND	Oxamyl	1500	ND			

Samantha Small

Sam Smith 9/29/2021 5:13:00 PM

Courtney Richards 9/29/2021 7:12:00 PM

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APPROVED BY / DATE

Definitions

LOQ = Limit of Quantification ppb = Parts per Billion

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Official Compliance: Colorado CERTIFICATE OF ANALYSIS

21263-19

Batch ID or Lot Number: Reported: Test: OSOZ1000 **Microbial** 9/30/21

Contaminants

Test ID: Started: **USDA License:** Matrix:

Finished Product T000165847 9/27/21 N/A

Methods: Sampler ID: Status: Received:

TM25 (qPCR) 09/27/2021 @ 11:16 AM N/A N/A

> TM24, TM26, TM27(Culture Plating): Microbial (Colorado Panel)

MICROBIAL CONTAMINANTS DETERMINATION

Contaminant	Method	LOD	LLOQ	ULOQ	Result
Total Aerobic Count*	TM-26, Culture Plating	10^2 CFU/g	10^3 CFU/g	1.5x10^5 CFU/g	None Detected
Total Coliforms*	TM-27, Culture Plating	10^2 CFU/g	10^2 CFU/g	1.5x10^4 CFU/g	None Detected
Total Yeast and Mold*	TM-24, Culture Plating	10^2 CFU/g	10^2 CFU/g	1.5x10^4 CFU/g	None Detected
E. coli (STEC)	TM-25, PCR	1 CFU/25 g	NA	NA	Absent
Salmonella	TM-25, PCR	1 CFU/25 g	NA	NA	Absent

Notes

Free from visual mold, mildew, and foreign matter

Jackson Osaghae-Nosa 9/30/2021

9:25:00 AM

Sarah Henning 9/30/2021 3:03:00 PM

PREPARED BY / DATE

APPROVED BY / DATE

Definitions

LOD = Limit of Detection | LLOQ = Lower Limit of Quantitation | ULOQ = Upper Limit of Quantitation CFU/g = Colony Forming Units per Gram | STEC = Shiga Toxin-Producing E. coli

* 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 10^5 = 100,000 CFU

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21263-19

Batch ID or Lot Number: OSOZ1000	Test: Metals	Reported: 9/30/21	
Matrix: Unit Co	Test ID: T000165848	Started: 9/29/21	USDA License: N/A
Status: N/A	Method: TM19 (ICP-MS): Heavy Metals (Colorado Panel)	Received: 09/27/2021 @ 11:16 AM	Sampler ID: N/A

HEAVY METALS DETERMINATION

Compound	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.047 - 4.73	ND	
Cadmium	0.046 - 4.60	ND	
Mercury	0.044 - 4.38	ND	
Lead	0.048 - 4.76	ND	

Ryan Weems 30-Sep-21 12:59 PM

Sam Smith Samantha Small 30-Sep-21

1:02 PM

PREPARED BY / DATE APPROVED BY / DATE

Definitions

ND = None Detected (Defined by Dynamic Range of the method)



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21263-19

Batch ID or Lot Number: OSOZ1000	Test: Mycotoxins	Reported: 10/1/21		
Matrix: Concentrate	Test ID: T000165850	Started: 9/29/21	USDA License: N/A	
Status: N/A	Method: TM18 (UHPLC-QQQ LCMS/MS): Mycotoxins (Colorado Panel)	Received: 09/27/2021 @ 11:16 AM	Sampler ID: N/A	

MYCOTOXIN DETERMINATION

Compound	- <i>y</i>	ige (ppb)	Result (ppb) Notes	
Ochratoxin A	1.8 - 134	1.4	ND	N/A	
Aflatoxin B1	1.1 - 34	.4	ND		
Aflatoxin B2	1.1 - 3	4	ND		
Aflatoxin G1	0.9 - 3	4	ND		
Aflatoxin G2	1.2 - 32	.8	ND		
Total Aflatoxins (B1, B2, G1, and G2)			ND		

Samantha Smoul

Sam Smith 30-Sep-21 11:46 AM

Courtny Richals

Courtney Richards 1-Oct-21 8:35 AM

APPROVED BY / DATE

Definitions

PREPARED BY / DATE

ND = None Detected (Defined by Dynamic Range of the method)

Testing results are based solely upon the sample submitted to Botanacor Laboratories, LLC, in the condition it was received. Botanacor Laboratories, LLC 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 Botanacor Laboratories, LLC.



CDPHE Certified





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21263-19

Batch ID or Lot Number: OSOZ1000	Test: Residual Solvents	Reported: 9/29/21	
Matrix: N/A	Test ID: T000165849	Started: 9/29/21	USDA License: N/A
Status: N/A	Methods: TM04 (GC-MS): Residual Solven (Colorado Panel)	Received: ts 09/27/2021 @ 11:16 AM	Sampler ID: N/A

RESIDUAL SOLVENTS DETERMINATION

Solvent	Dynamic Range (ppm)	Result (ppm)	Notes
Propane	71 - 1419	*ND	_
Butanes (Isobutane, n-Butane)	143 - 2855	*ND	
Methanol	52 - 1032	*ND	
Pentane	75 - 1497	*ND	
Ethanol	80 - 1598	*ND	
Acetone	81 - 1624	*ND	
Isopropyl Alcohol	88 - 1765	*ND	
Hexane	5 - 100	*ND	
Ethyl Acetate	83 - 1653	*ND	
Benzene	0 - 3	*ND	
Heptanes	78 - 1570	*ND	
Toluene	15 - 298	*ND	
Xylenes	100, 2161	+ND	
(m,p,o-Xylenes)	108 - 2161	*ND	

Daniel Wortoward

Daniel Weidensaul 29-Sep-21 7:33 PM

Mygun Views

Ryan Weems 29-Sep-21 7:35 PM

PREPARED BY / DATE

APPROVED BY / DATE

Definitions

* ND = None Detected (Defined by Dynamic Range of the method)

COPHE

Testing results are based solely upon the sample submitted to Botanacor Laboratories, LLC, in the condition it was received. Botanacor Laboratories, LLC 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 Botanacor Laboratories, LLC.

