

# CERTIFICATE OF ANALYSIS

**PRODUCT NAME:** Organic CBD Salve Stick

**PRODUCT STRENGTH:** 250 mg / stick

BATCH: 21252-09 09/09/2023 **BEST BY DATE:** 

**HEMP EXTRACT LOT:** CO624-001/PH-21068-BS-5MO

## \*Click on the links to view third-party reports\*

#### Physical Atttributes

Test	Method	Specification	Results
Color	Joy Internal	off white to cream	PASS
Odor	Joy Internal	Neutral scent w/hint of hemp oil, sweet beeswax	PASS
Appearance	Joy Internal	Firm textured salve in white roll-on container with cap	PASS
Primary Package Eval.	Joy Internal	Container clean and free of filth. Container caps tight and tamper-evident label 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*: ≥ 250 mg / stick	290.38 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	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

\*Level of Quantification \*\*Colony Forming Units per Gram † Parts Per Million †† Part Per Billion

Values expressed in scientific notation. 10^3=1,000

Quality Certified

Kayla Kolber Kayla Kolber

10/06/2021

Date



# Official Compliance: Colorado CERTIFICATE OF ANALYSIS

#### OSALS250

Batch ID or Lot Number: Test: Reported: Location:
21252-09 Potency 9/22/21 480 Airport Blvd
Watsonville, CA 95076

Matrix: Test ID: Started: USDA License:

Concentrate T000163135 9/21/21 N/A

Status: Method: Received: Sampler ID:

N/A TM14 (HPLC-DAD): Potency - Broad 09/16/2021 @ 10:44 AM N/A

(Colorado Panel)

Spectrum Analysis, 0.01% THC

### **CANNABINOID PROFILE**

Compound	LOD (%)	LOQ (%)	Result (%)	Result (mg/g)	Notos
Delta 9-Tetrahydrocannabinolic acid (THCA-A)	0.003	0.009	ND	ND	Notes
Delta 9-Tetrahydrocannabinol (Delta 9THC)	0.003	0.010	ND	ND	N/A
Cannabidiolic acid (CBDA)	0.022	0.056	ND	ND	
Cannabidiol (CBD)	0.021	0.054	1.666	16.66	Density: 1.162 g/mL
Delta 8-Tetrahydrocannabinol (Delta 8THC)	0.020	0.067	ND	ND	
Cannabinolic Acid (CBNA)	0.011	0.038	ND	ND	
Cannabinol (CBN)	0.005	0.018	ND	ND	
Cannabigerolic acid (CBGA)	0.016	0.056	ND	ND	
Cannabigerol (CBG)	0.004	0.013	0.103	1.03	
Tetrahydrocannabivarinic Acid (THCVA)	0.014	0.048	ND	ND	
Tetrahydrocannabivarin (THCV)	0.004	0.012	ND	ND	
Cannabidivarinic Acid (CBDVA)	0.009	0.023	ND	ND	
Cannabidivarin (CBDV)	0.005	0.013	0.013*	0.13*	
Cannabichromenic Acid (CBCA)	0.006	0.022	ND	ND	
Cannabichromene (CBC)	0.007	0.024	ND	ND	
Total Cannabinoids			1.782	17.82	
Total Potential THC**			ND	ND	
Total Potential CBD**			1.666	16.66	



Hannah Wright 22-Sep-2021 05:41 PM

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Ryan Weems 22-Sep-21 5:42 PM

#### 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.



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#### OSALS250

Batch ID or Lot Number: Test: Reported: 21252-09 **Pesticides** 9/20/21 Matrix: Test ID: Started: **USDA License:** T000163136 Concentrate 9/17/21 N/A Method: Sampler ID: Status: Received: N/A TM17(LC-QQQ LC MS/MS): 09/16/2021 @ 10:44 AM N/A

## **PESTICIDE DETERMINATION**

Compound	LOQ (ppb)	Result (ppb)	Compound	LOQ (ppb)	Result (ppb)	Compound	LOQ (ppb)	Result (ppb)
Acephate	38	ND	Fenoxycarb	43	ND	Paclobutrazol	41	ND
Acetamiprid	38	ND	Fipronil	55	ND	Permethrin	305	ND
Avermectin	312	ND	Flonicamid	40	ND	Phosmet	39	ND
Azoxystrobin	42	ND	Fludioxonil	286	ND	Prophos	291	ND
Bifenazate	39	ND	Hexythiazox	35	ND	Propoxur	41	ND
Boscalid	41	ND	Imazalil	278	ND	Pyridaben	303	ND
Carbaryl	35	ND	Imidacloprid	37	ND	Spinosad A	34	ND
Carbofuran	40	ND	Kresoxim-methyl	150	ND	Spinosad D	52	ND
Chlorantraniliprole	34	ND	Malathion	286	ND	Spiromesifen	274	ND
Chlorpyrifos	500	ND	Metalaxyl	42	ND	Spirotetramat	303	ND
Clofentezine	287	ND	Methiocarb	38	ND	Spiroxamine 1	18	ND
Diazinon	290	ND	Methomyl	38	ND	Spiroxamine 2	24	ND
Dichlorvos	286	ND	MGK 264 1	160	ND	Tebuconazole	283	ND
Dimethoate	40	ND	MGK 264 2	117	ND	Thiacloprid	38	ND
E-Fenpyroximate	277	ND	Myclobutanil	39	ND	Thiamethoxam	38	ND
Etofenprox	41	ND	Naled	44	ND	Trifloxystrobin	44	ND
Etoxazole	304	ND	Oxamyl	1500	ND			

Samantha Small

Sam Smith 9/20/2021 1:03:00 PM

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Courtney Richards 9/20/2021 4:57:00 PM

PREPARED BY / DATE

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**Definitions** 

LOQ = Limit of Quantification ppb = Parts per Billion

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.







# **Official Compliance: Colorado**

## CERTIFICATE OF ANALYSIS

#### OSALS250

Batch ID or Lot Number: Test: Reported: 21252-09 **Microbial** 9/20/21

**Contaminants** 

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

9/16/21 **Finished Product** T000163137 N/A

Methods: Received: Sampler ID: Status:

TM25 (qPCR) 09/16/2021 @ 10:44 AM N/A N/A

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

#### MICROBIAL CONTAMINANTS DETERMINATION

Contaminant	Method	LOD	LLOQ	ULOQ	Result	Notes
Total Aerobic Count*	TM-26, Culture Plating	10^2 CFU/g	10^3 CFU/g	1.5x10^5 CFU/g	None Detected	Free from v
Total Coliforms*	TM-27, Culture Plating	10^2 CFU/g	10^2 CFU/g	1.5x10^4 CFU/g	None Detected	matter
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	

visual mold, nd foreign

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Carly Bader 9/19/2021 1:34:00 PM

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#### **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.

10^2 = 100 CFU Examples:

> 10^3 = 1,000 CFU 10^4 = 10,000 CFU 10^5 = 100,000 CFU

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Tori King

9/20/2021

2:27:00 PM



## **Official Compliance: Colorado** CERTIFICATE OF ANALYSIS

#### OSALS250

Batch ID or Lot Number: 21252-09	Test: <b>Metals</b>	Reported: <b>9/22/21</b>	
Matrix: Unit Co	Test ID: T000163138	Started: 9/21/21	USDA License: N/A
Status: N/A	Method: TM19 (ICP-MS): Heavy Metals (Colorado Panel)	Received: 09/16/2021 @ 10:44 AM	Sampler ID: N/A

### **HEAVY METALS DETERMINATION**

Compound	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.047 - 4.70	ND	
Cadmium	0.046 - 4.56	ND	
Mercury	0.044 - 4.43	ND	
Lead	0.046 - 4.59	ND	

Daniel Westersand

PREPARED BY / DATE

**Daniel Weidensaul** 22-Sep-21 2:20 PM

APPROVED BY / DATE

Ryan Weems

22-Sep-21

2:23 PM

#### **Definitions**

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

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## Official Compliance: Colorado CERTIFICATE OF ANALYSIS

#### OSALS250

Batch ID or Lot Number: 21252-09	Test: <b>Mycotoxins</b>	Reported: <b>9/27/21</b>	
Matrix: Concentrate	Test ID: T000163140	Started: 9/24/21	USDA License: N/A
Status: N/A	Method: TM18 (UHPLC-QQQ LCMS/MS): Mycotoxins (Colorado Panel)	Received: 09/16/2021 @ 10:44 AM	Sampler ID: N/A

## MYCOTOXIN DETERMINATION

Compound	Dynamic Range (ppb)	Result (ppb)	Notes
Ochratoxin A	4 - 128.7	ND	N/A
Aflatoxin B1	1.3 - 33	ND	
Aflatoxin B2	1.2 - 32.7	ND	
Aflatoxin G1	0.9 - 31.6	ND	
Aflatoxin G2	1.2 - 31.9	ND	
Total Aflatoxins (B1, B2, G1, and G2)		ND	

Samantha Smill

Sam Smith 27-Sep-21 8:43 AM

8:43 AM

alex Smith

Alex Smith 27-Sep-21 3:02 PM

APPROVED BY / DATE

#### **Definitions**

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

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Certificate #4329.02



# Official Compliance: Colorado CERTIFICATE OF ANALYSIS

#### OSALS250

Batch ID or Lot Number: <b>21252-09</b>	Test: Residual Solvents	Reported: <b>9/22/21</b>		
Matrix:	Test ID:	Started:	USDA License:	
N/A	T000163139	9/22/21	N/A	

Status: Methods: Received: Sampler ID: N/A TM04 (GC-MS): Residual Solvents 09/16/2021 @ 10:44 AM N/A

(Colorado Panel)

## **RESIDUAL SOLVENTS DETERMINATION**

Solvent	Dynamic Range (ppm)	Result (ppm)	Notes
Propane	68 - 1359	*ND	
Butanes (Isobutane, n-Butane)	134 - 2689	*ND	
Methanol	62 - 1247	*ND	
Pentane	83 - 1665	*ND	
Ethanol	99 - 1986	*ND	
Acetone	98 - 1963	*ND	
Isopropyl Alcohol	110 - 2210	*ND	
Hexane	6 - 117	*ND	
Ethyl Acetate	101 - 2026	*ND	
Benzene	0 - 4	*ND	
Heptanes	94 - 1873	*ND	
Toluene	19 - 380	*ND	
Xylenes		*ND	
(m,p,o-Xylenes)	2 2031		

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Hannah Wright 22-Sep-21 4:21 PM

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Ryan Weems 22-Sep-21 4:24 PM

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#### **Definitions**

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

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