

# CERTIFICATE OF ANALYSIS

**PRODUCT NAME:** \*Organic CBD Salve Stick  
**PRODUCT STRENGTH:** 250 mg / stick  
**BATCH:** 21252-09  
**BEST BY DATE:** 09/09/2023  
**HEMP EXTRACT LOT:** CO624-001/PH-21068-BS-5MO

Prepared for:  
 Astraëa & Co  
 50 E. Ridgewood Ave. STE 303  
 Ridgewood, NJ 07450

Click on the links to view third-party reports

### Physical Attributes

Test	Method	Specification	Results
Color	Internal	off white to cream	PASS
Odor	Internal	Neutral scent w/hint of hemp oil, sweet beeswax	PASS
Appearance	Internal	Firm textured salve in white roll-on container with cap	PASS
Primary Package Eval.	Internal	Container clean and free of filth. Container caps tight and tamper-evident label intact	PASS
Secondary Package Eval.	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
<b>Potency - Total CBD</b>	HPLC-UV DAD	LOQ**: ≥ 250 mg / stick	<b>290.38 mg</b>	PASS
<b>Potency - D9-THC</b>	HPLC-UV DAD	LOQ: <0.01% THC (Broad Spectrum)	<b>Below LOQ</b>	PASS
<b>Expanded Pesticide Panel</b>	HPLC-QQQ	LOQ: Complies with CDPHE 6 CCR 1010-21 Industrial Hemp Extract	<b>Below LOQ</b>	PASS
<b>Microbial</b> Escherichia coli (STEC)	PCR	Complies with CDPHE 6 CCR 1010-21 - LOQ 1 ***CFU/25 gram	<b>Absent</b>	PASS
<b>Microbial</b> Salmonella	PCR	Complies with CDPHE 6 CCR 1010-21 - LOQ 1 CFU/25 gram	<b>Absent</b>	PASS
<b>Microbial</b> Yeast and Mold	Culture Plating	Complies with CDPHE 6 CCR 1010-21 - LOQ 10 <sup>2</sup> CFU/gram	<b>Below LOQ</b>	PASS
<b>Microbial</b> Total Coliforms	Culture Plating	Complies with CDPHE 6 CCR 1010-21 - LOQ 10 <sup>2</sup> CFU/gram	<b>Below LOQ</b>	PASS
<b>Microbial</b> Total Aerobic Count	Culture Plating	Complies with CDPHE 6 CCR 1010-21 - LOQ 10 <sup>3</sup> CFU/gram	<b>Below LOQ</b>	PASS
<b>Heavy Metals</b>	ICP-MS	Arsenic (As): ≤1.5 ppm† Cadmium (Cd): ≤0.5 ppm Lead (Pb): ≤0.5 ppm Mercury (Hg): ≤1.5 ppm	<b>Below LOQ</b>	PASS
<b>Mycotoxins</b>	ICP-MS	Total Aflatoxins <20 ppb†† Afltoxin B1 < 5 ppb Ochratoxin < 5ppb	<b>Below LOQ</b>	PASS
<b>Residual Solvents</b>	GC-HS-MSD	LOQ: Complies with CDPHE 6 CCR 1010-21 Industrial Hemp Extract	<b>Below LOQ</b>	PASS

\*The organic status only applies to products with certified labels

\*\*Level of Quantification

\*\*\*Colony Forming Units per Gram

† Parts Per Million †† Part Per Billion

Values expressed in scientific notation.

Examples:

10<sup>2</sup>=100

10<sup>3</sup>=1,000

Quality Certified Kayla Kolber 10/06/2021  
 Kayla Kolber \_\_\_\_\_ Date  
 Quality Assurance Technician

Prepared for:  
 Astraèa & Co  
 50 E. Ridgewood Ave. STE 303  
 Ridgewood, NJ 07450

**OSALS250**


Batch ID or Lot Number: <b>21252-09</b>	Test: <b>Potency</b>	Reported: <b>9/22/21</b>	Location: 480 Airport Blvd Watsonville, CA 95076
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Matrix: Concentrate	Test ID: T000163135	Started: 9/21/21	USDA License: N/A
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Status: N/A	Method: TM14 (HPLC-DAD): Potency - Broad Spectrum Analysis, 0.01% THC (Colorado Panel)	Received: 09/16/2021 @ 10:44 AM	Sampler ID: N/A
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**CANNABINOID PROFILE**

Compound	LOD (%)	LOQ (%)	Result (%)	Result (mg/g)	Notes
Delta 9-Tetrahydrocannabinolic acid (THCA-A)	0.003	0.009	ND	ND	N/A Density: 1.162 g/mL
Delta 9-Tetrahydrocannabinol (Delta 9THC)	0.003	0.010	ND	ND	
Cannabidiolic acid (CBDA)	0.022	0.056	ND	ND	
Cannabidiol (CBD)	0.021	0.054	1.666	16.66	
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	
<b>Total Cannabinoids</b>			<b>1.782</b>	<b>17.82</b>	
Total Potential THC**			ND	ND	
Total Potential CBD**			1.666	16.66	


 Hannah Wright  
 22-Sep-2021  
 05:41 PM


 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 Quantitation (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.

$$\text{Total THC} = \text{THC} + (\text{THCa} * (0.877)) \text{ and}$$

$$\text{Total CBD} = \text{CBD} + (\text{CBDa} * (0.877))$$

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.



CDPHE Certified



Certificate #4329.02

Prepared for:  
 Astraèa & Co  
 50 E. Ridgewood Ave. STE 303  
 Ridgewood, NJ 07450

**OSALS250**


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

Matrix: Concentrate      Test ID: T000163136      Started: 9/17/21      USDA License: N/A


Status: N/A      Method: TM17(LC-QQQ LC MS/MS):      Received: 09/16/2021 @ 10:44 AM      Sampler ID: 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	Fonicamid	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	Metaxyl	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			


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

PREPARED BY / DATE


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

APPROVED BY / DATE

**Definitions**

 LOQ = Limit of Quantification  
 ppb = Parts per Billion

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**OSALS250**

Batch ID or Lot Number: <b>21252-09</b>	Test: <b>Microbial Contaminants</b>	Reported: <b>9/20/21</b>	
Matrix: Finished Product	Test ID: T000163137	Started: 9/16/21	USDA License: N/A
Status: N/A	Methods: TM25 (qPCR) TM24, TM26, TM27(Culture Plating): Microbial (Colorado Panel)	Received: 09/16/2021 @ 10:44 AM	Sampler ID: N/A

**MICROBIAL CONTAMINANTS DETERMINATION**

Contaminant	Method	LOD	LLOQ	ULOQ	Result	Notes
<b>Total Aerobic Count*</b>	TM-26, Culture Plating	10 <sup>2</sup> CFU/g	10 <sup>3</sup> CFU/g	1.5x10 <sup>5</sup> CFU/g	None Detected	Free from visual mold, mildew, and foreign matter
<b>Total Coliforms*</b>	TM-27, Culture Plating	10 <sup>2</sup> CFU/g	10 <sup>2</sup> CFU/g	1.5x10 <sup>4</sup> CFU/g	None Detected	
<b>Total Yeast and Mold*</b>	TM-24, Culture Plating	10 <sup>2</sup> CFU/g	10 <sup>2</sup> CFU/g	1.5x10 <sup>4</sup> CFU/g	None Detected	
<b>E. coli (STEC)</b>	TM-25, PCR	1 CFU/25 g	NA	NA	Absent	
<b>Salmonella</b>	TM-25, PCR	1 CFU/25 g	NA	NA	Absent	


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


 Tori King  
 9/20/2021  
 2:27:00 PM

PREPARED BY / DATE

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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.

- Examples:
- 
- 10
- <sup>2</sup>
- = 100 CFU
- 
- 10
- <sup>3</sup>
- = 1,000 CFU
- 
- 10
- <sup>4</sup>
- = 10,000 CFU
- 
- 10
- <sup>5</sup>
- = 100,000 CFU

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 Ridgewood, NJ 07450

## OSALS250


Batch ID or Lot Number: <b>21252-09</b>	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 Weidensaul  
 22-Sep-21  
 2:20 PM

PREPARED BY / DATE

 Ryan Weems  
 22-Sep-21  
 2:23 PM

APPROVED BY / DATE

### Definitions

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

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 Ridgewood, NJ 07450

**OSALS250**


Batch ID or Lot Number: <b>21252-09</b>	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	
<b>Total Aflatoxins (B1, B2, G1, and G2)</b>		ND	

  
 Sam Smith  
 27-Sep-21  
 8:43 AM

PREPARED BY / DATE

  
 Alex Smith  
 27-Sep-21  
 3:02 PM

APPROVED BY / DATE

**Definitions**

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

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Ridgewood, NJ 07450


**OSALS250**

Batch ID or Lot Number: <b>21252-09</b>	Test: <b>Residual Solvents</b>	Reported: <b>9/22/21</b>	
Matrix: N/A	Test ID: T000163139	Started: 9/22/21	USDA License: N/A
Status: N/A	Methods: TM04 (GC-MS): Residual Solvents (Colorado Panel)	Received: 09/16/2021 @ 10:44 AM	Sampler ID: N/A

**RESIDUAL SOLVENTS DETERMINATION**

Solvent	Dynamic Range (ppm)	Result (ppm)	Notes
<b>Propane</b>	68 - 1359	*ND	
<b>Butanes</b> (Isobutane, n-Butane)	134 - 2689	*ND	
<b>Methanol</b>	62 - 1247	*ND	
<b>Pentane</b>	83 - 1665	*ND	
<b>Ethanol</b>	99 - 1986	*ND	
<b>Acetone</b>	98 - 1963	*ND	
<b>Isopropyl Alcohol</b>	110 - 2210	*ND	
<b>Hexane</b>	6 - 117	*ND	
<b>Ethyl Acetate</b>	101 - 2026	*ND	
<b>Benzene</b>	0 - 4	*ND	
<b>Heptanes</b>	94 - 1873	*ND	
<b>Toluene</b>	19 - 380	*ND	
<b>Xylenes</b> (m,p,o-Xylenes)	142 - 2831	*ND	

 Hannah Wright  
22-Sep-21  
4:21 PM

 Ryan Weems  
22-Sep-21  
4:24 PM

PREPARED BY / DATE

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**Definitions**

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

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