

Prepared for:

### **Vlasic Labs**

1699 Traditional Commerce, MI USA 48390

## 40mg/ml CBN Isolate Tincture

Batch ID or Lot Number:	Test: Potency	Reported:	USDA License:
Lot: 231116011 Item: 221.001.0129		29Nov2023	N/A
Matrix:	Test ID:	Started:	Sampler ID:
Solution	T000263012	29Nov2023	N/A
	Method(s):	Received:	Status:
	TM14 (HPLC-DAD)	24Nov2023	N/A

Result						
LOD (mg/mL)	LOQ (mg/mL)	(mg/mL)	Result (mg/g)	Notes		
0.191	0.681	ND	ND	Density =		
0.175	0.623	ND	ND	0.947g/ml		
0.578	1.570	ND	ND			
0.593	1.611	ND	ND			
0.137	0.371	ND	ND			
0.248	0.672	ND	ND			
0.108	0.387	ND	ND			
0.453	1.617	ND	ND			
0.141	0.504	41.060	43.40			
0.309	1.103	ND	ND			
0.540	1.926	ND	ND			
0.490	1.749	ND	ND			
0.434	1.550	ND	ND			
0.099	0.352	ND	ND			
0.383	1.367	ND	ND			
		41.060	43.40	•		
		ND	ND			
		ND	ND			
	0.191 0.175 0.578 0.593 0.137 0.248 0.108 0.453 0.141 0.309 0.540 0.490 0.434 0.099	0.175     0.623       0.578     1.570       0.593     1.611       0.137     0.371       0.248     0.672       0.108     0.387       0.453     1.617       0.141     0.504       0.309     1.103       0.540     1.926       0.490     1.749       0.434     1.550       0.099     0.352	LOD (mg/mL)         LOQ (mg/mL)         (mg/mL)           0.191         0.681         ND           0.175         0.623         ND           0.578         1.570         ND           0.593         1.611         ND           0.137         0.371         ND           0.248         0.672         ND           0.108         0.387         ND           0.453         1.617         ND           0.141         0.504         41.060           0.309         1.103         ND           0.540         1.926         ND           0.490         1.749         ND           0.434         1.550         ND           0.099         0.352         ND           0.383         1.367         ND           41.060           ND	LOD (mg/mL)         LOQ (mg/mL)         (mg/mL)         Result (mg/g)           0.191         0.681         ND         ND           0.175         0.623         ND         ND           0.578         1.570         ND         ND           0.593         1.611         ND         ND           0.137         0.371         ND         ND           0.248         0.672         ND         ND           0.108         0.387         ND         ND           0.453         1.617         ND         ND           0.309         1.103         ND         ND           0.540         1.926         ND         ND           0.490         1.749         ND         ND           0.434         1.550         ND         ND           0.383         1.367         ND         ND           41.060         43.40           ND         ND         ND		

**Final Approval** 

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PREPARED BY / DATE

Karen Winternheimer 29Nov2023 01:53:00 PM MST

Sowantha Smill

Sam Smith 29Nov2023 01:56:00 PM MST



APPROVED BY / DATE

https://results.botanacor.com/api/v1/coas/uuid/f09f847d-c5f4-4032-bcd5-4e30b86946fa

#### **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-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 A2LA Cert #: 4329.02 Chemical; 4329.03 Biological.





Cert #4329.02 f09f847dc5f44032bcd54e30b86946fa.1



Prepared for:

### **Vlasic Labs**

1699 Traditional Commerce, MI USA 48390

## 40mg/ml CBN Isolate Tincture

Batch ID or Lot Number:	Test:	Reported:	USDA License:
Lot: 231116011 Item: 221.001.0129	<b>Residual Solvents</b>	30Nov2023	N/A
Matrix:	Test ID:	Started:	Sampler ID:
Concentrate	T000263015	29Nov2023	N/A
	Method(s):	Received:	Status:
	TM04 (GC-MS): Residual Solvents	24Nov2023	Active

Residual Solvents	<b>Dynamic Range</b> (ppm)	Result (ppm)	Notes
Propane	80 - 1601	ND	
Butanes (Isobutane, n-Butane)	157 - 3143	ND	
Methanol	58 - 1167	ND	
Pentane	86 - 1719	ND	
Ethanol	92 - 1843	ND	
Acetone	90 - 1805	ND	
Isopropyl Alcohol	97 - 1941	ND	
Hexane	6 - 111	ND	
Ethyl Acetate	94 - 1870	ND	
Benzene	0.2 - 3.6	ND	
Heptanes	89 - 1786	ND	
Toluene	17 - 337	ND	
Xylenes (m,p,o-Xylenes)	123 - 2458	ND	

**Final Approval** 

Wintersheimer PREPARED BY / DATE Karen Winternheimer 30Nov2023 12:48:00 PM MST

Samantha Smill

Sam Smith 30Nov2023 12:50:00 PM MST



APPROVED BY / DATE

https://results.botanacor.com/api/v1/coas/uuid/7ba3802e-d9f7-4d35-a3d2-c428bc94433f

**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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Prepared for:

### **Vlasic Labs**

1699 Traditional Commerce, MI USA 48390

## 40mg/ml CBN Isolate Tincture

Batch ID or Lot Number: Lot: 231116011 Item: 221.001.0129	Test: Mycotoxins	Reported: 29Nov2023	USDA License: N/A	
Matrix:	Test ID:	Started:	Sampler ID:	
oncentrate	T000263016	28Nov2023	N/A	
	Method(s):	Received:	Status:	
	TM18 (UHPLC-QQQ LCMS/MS): Mycotoxins	24Nov2023	Active	

<b>Dynamic Range</b> (ppb)	Result (ppb)	Notes	
2.27 - 132.55	ND	N/A	
0.93 - 32.11	ND		
0.93 - 32.39	ND		
0.99 - 32.59	ND		
1.09 - 32.75	ND		
and G2)	ND		
	2.27 - 132.55 0.93 - 32.11 0.93 - 32.39 0.99 - 32.59 1.09 - 32.75	2.27 - 132.55 ND  0.93 - 32.11 ND  0.93 - 32.39 ND  0.99 - 32.59 ND  1.09 - 32.75 ND	2.27 - 132.55 ND N/A  0.93 - 32.11 ND  0.93 - 32.39 ND  0.99 - 32.59 ND  1.09 - 32.75 ND

**Final Approval** 

Samantha Smoll

Sam Smith 29Nov2023 02:03:00 PM MST

L Withtenhumen

Karen Winternheimer 29Nov2023 02:08:00 PM MST



PREPARED BY / DATE

https://results.botanacor.com/api/v1/coas/uuid/4a3bb8a2-e664-427e-af21-f94c83e30292

**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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Prepared for:

### **Vlasic Labs**

1699 Traditional Commerce, MI USA 48390

## 40mg/ml CBN Isolate Tincture

Batch ID or Lot Number:	Test:	Reported:	USDA License:
Lot: 231116011 Item: 221.001.0129	<b>Heavy Metals</b>	30Nov2023	NA
Matrix:	Test ID:	Started:	Sampler ID:
Finished Product	T000263014	29Nov2023	NA
	Method(s):	Received:	Status:
	TM19 (ICP-MS): Heavy Metals	24Nov2023	NA

Heavy Metals	Dynamic Range (ppm)	Result (ppm)	Notes	
Arsenic	0.04 - 4.32	ND		
Cadmium	0.04 - 4.28	ND		
Mercury	0.04 - 4.24	ND		
Lead	0.04 - 4.34	ND		

**Final Approval** 

PREPARED BY / DATE

Garmantha Smoll

Sam Smith 30Nov2023 07:58:00 AM MST

APPROVED BY / DATE

Karen Winternheimer 30Nov2023 08:00:00 AM MST



https://results.botanacor.com/api/v1/coas/uuid/8e7faf6e-2e53-4141-9f19-5ed85f5b7e2f

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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Prepared for:

### **Vlasic Labs**

1699 Traditional Commerce, MI USA 48390

## 40mg/ml CBN Isolate Tincture

Batch ID or Lot Number:	Test:	Reported: 01Dec2023	USDA License:
Lot: 231116011 Item: 221.001.0129	Pesticides		NA
Matrix:	Test ID:	Started:	Sampler ID:
Concentrate	T000263013	30Nov2023	NA
	Method(s):	Received:	Status:
	TM17 (LC-QQ LC MS/MS)	24Nov2023	NA

Pesticides	<b>Dynamic Range</b> (ppb)	Result (ppb)
Abamectin	385 - 3277	ND
Acephate	43 - 2767	ND
Acetamiprid	42 - 2720	ND
Azoxystrobin	44 - 2764	ND
Bifenazate	44 - 2711	ND
Boscalid	41 - 2623	ND
Carbaryl	43 - 2708	ND
Carbofuran	44 - 2682	ND
Chlorantraniliprole	50 - 2579	ND
Chlorpyrifos	50 - 2781	ND
Clofentezine	283 - 2691	ND
Diazinon	289 - 2727	ND
Dichlorvos	283 - 2752	ND
Dimethoate	43 - 2726	ND
E-Fenpyroximate	286 - 2761	ND
Etofenprox	43 - 2781	ND
Etoxazole	287 - 2702	ND
Fenoxycarb	30 - 2714	ND
Fipronil	49 - 2636	ND
Flonicamid	43 - 2740	ND
Fludioxonil	315 - 2625	ND
Hexythiazox	42 - 2753	ND
Imazalil	263 - 2804	ND
Imidacloprid	43 - 2776	ND
Kresoxim-methyl	45 - 2761	ND

	<b>Dynamic Range</b> (ppb)	Result (ppb)
Malathion	280 - 2762	ND
Metalaxyl	46 - 2743	ND
Methiocarb	47 - 2707	ND
Methomyl	44 - 2802	ND
MGK 264 1	164 - 1610	ND
MGK 264 2	113 - 1089	ND
Myclobutanil	17 - 2632	ND
Naled	46 - 2642	ND
Oxamyl	43 - 2793	ND
Paclobutrazol	48 - 2595	ND
Permethrin	260 - 2759	ND
Phosmet	43 - 2585	ND
Prophos	303 - 2679	ND
Propoxur	45 - 2707	ND
Pyridaben	298 - 2830	ND
Spinosad A	32 - 2128	ND
Spinosad D	65 - 685	ND
Spiromesifen	273 - 2747	ND
Spirotetramat	267 - 2754	ND
Spiroxamine 1	16 - 1027	ND
Spiroxamine 2	28 - 1553	ND
Tebuconazole	286 - 2594	ND
Thiacloprid	43 - 2746	ND
Thiamethoxam	40 - 2752	ND
Trifloxystrobin	46 - 2738	ND

**Final Approval** 



Karen Winternheimer 01Dec2023 09:36:00 AM MST

00 AM MST

Sam Smith 01Dec2023 09:42:00 AM MST



APPROVED BY / DATE

https://results.botanacor.com/api/v1/coas/uuid/a9f13326-b818-458d-b707-37d9745d179f

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

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 A2LA Cert #: 4329.02 Chemical; 4329.03 Biological.





Cert #4329.02 a9f13326b818458db70737d9745d179f.1





**Report Number:** 23-013898/D004.R000

**Report Date:** 12/04/2023 **ORELAP#:** OR100028

**Purchase Order:** 

**Received:** 11/28/23 10:24

Customer: Vlasic Labs

**Product identity:** 40mg/ml CBN Isolate Tincture

**Client/Metrc ID:** LOT 231116011 **Laboratory ID:** 23-013898-0004

Summary						
	:	 	 	 	 -	 -

Microbiology:

Less than LOQ for all analytes.





**Report Number:** 23-013898/D004.R000

**Report Date:** 12/04/2023 **ORELAP#:** OR100028

**Purchase Order:** 

**Received:** 11/28/23 10:24

Customer: Vlasic Labs

**Product identity:** 40mg/ml CBN Isolate Tincture

Client/Metrc ID: LOT 231116011

Sample Date:

**Laboratory ID:** 23-013898-0004

Evidence of Cooling: No
Temp: 17.4 °C
Relinquished by: shipping

### **Sample Results**

Microbiology							
Analyte	Result	Limits l	Units	LOQ	Batch	Analyzed Method	Status Notes
Aerobic Plate Count	< LOQ	C	cfu/g	10	2313136	12/01/23 AOAC 990.12 (Petrifilm) <sup>b</sup>	
E.coli	< LOQ	(	cfu/g	10	2313133	12/01/23 AOAC 991.14 (Petrifilm) <sup>b</sup>	
Total Coliforms	< LOQ	(	cfu/g	10	2313133	12/01/23 AOAC 991.14 (Petrifilm) <sup>b</sup>	
Mold (RAPID Petrifilm)	< LOQ	C	cfu/g	10	2313135	12/02/23 AOAC 2014.05 (RAPID) <sup>b</sup>	
Yeast (RAPID Petrifilm)	< LOQ	(	cfu/g	10	2313135	12/02/23 AOAC 2014.05 (RAPID) <sup>b</sup>	





**Report Number:** 23-013898/D004.R000

**Report Date:** 12/04/2023 **ORELAP#:** OR100028

**Purchase Order:** 

**Received:** 11/28/23 10:24

#### **Abbreviations**

Limits: Action Levels per OAR-333-007-0400, OAR-333-007-0210, OAR-333-007-0220, CCR title 16-division 42. BCC-section 5723

**Limit(s) of Quantitation (LOQ):** The minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence.

b = ISO/IEC 17025:2017 accredited method.

#### Units of Measure

cfu/g = Colony forming units per gram % wt =  $\mu$ g/g divided by 10,000

Approved Signatory

Derrick Tanner General Manager





**Report Number:** 23-013898/D004.R000

**Report Date:** 12/04/2023 ORELAP#: OR100028

**Purchase Order:** 

Received: 11/28/23 10:24







**Report Number:** 23-013898/D004.R000

**Report Date:** 12/04/2023 ORELAP#: OR100028

**Purchase Order:** 

11/28/23 10:24 Received:

#### Explanation of QC Flag Comments:

Code	Explanation					
Q	Matrix interferences affecting spike or surrogate recoveries.					
Q1	Quality control result biased high. Only non-detect samples reported.					
Q2	Quality control outside QC limits. Data considered estimate.					
Q3	Sample concentration greater than four times the amount spiked.					
Q4	Non-homogenous sample matrix, affecting RPD result and/or % recoveries.					
Q5	Spike results above calibration curve.					
Q6	Quality control outside QC limits. Data acceptable based on remaining QC.					
R	Relative percent difference (RPD) outside control limit.					
R1	RPD non-calculable, as sample or duplicate results are less than five times the LOQ.					
R2	Sample replicates RPD non-calculable, as only one replicate is within the analytical range.					
LOQ1	Quantitation level raised due to low sample volume and/or dilution.					
LOQ2	Quantitaion level raised due to matrix interference.					
В	Analyte detected in method blank, but not in associated samples.					
B1	The sample concentration is greater than 5 times the blank concentration.					
B2	The sample concentration is less than 5 times the blank concentration.					