

Prepared for:  
**Vlasic Labs**

1699 Traditional  
Commerce, MI USA 48390

## 3,000 mg CBD isolate

Batch ID or Lot Number: <b>T35222-1</b>	Test: <b>Potency</b>	Reported: <b>30Dec2022</b>	USDA License: N/A
Matrix: Solution	Test ID: T000231661	Started: 28Dec2022	Sampler ID: N/A
	Method(s): TM14 (HPLC-DAD)	Received: 28Dec2022	Status: N/A

### Cannabinoids

	LOD (mg/mL)	LOQ (mg/mL)	Result (mg/mL)	Result (mg/g)	Notes
Cannabichromene (CBC)	0.179	0.643	ND	ND	Density = 0.95g/mL
Cannabichromenic Acid (CBCA)	0.164	0.589	ND	ND	
Cannabidiol (CBD)	0.709	1.707	104.020	109.50	
Cannabidiolic Acid (CBDA)	0.727	1.750	ND	ND	
Cannabidivarin (CBDV)	0.168	0.404	0.400	0.40	
Cannabidivarinic Acid (CBDVA)	0.303	0.730	ND	ND	
Cannabigerol (CBG)	0.102	0.365	ND	ND	
Cannabigerolic Acid (CBGA)	0.426	1.527	ND	ND	
Cannabinol (CBN)	0.133	0.477	ND	ND	
Cannabinolic Acid (CBNA)	0.290	1.042	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.507	1.819	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.460	1.652	ND	ND	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.408	1.464	ND	ND	
Tetrahydrocannabivarin (THCV)	0.093	0.332	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	0.360	1.291	ND	ND	
<b>Total Cannabinoids</b>			<b>104.420</b>	<b>109.90</b>	
Total Potential THC			ND	ND	
Total Potential CBD			104.020	109.50	

### Final Approval



Karen Winternheimer  
30Dec2022  
10:41:00 AM MST

PREPARED BY / DATE



Sam Smith  
30Dec2022  
10:43:00 AM MST

APPROVED BY / DATE



<https://results.botanacor.com/api/v1/coas/uuid/01df8823-f68a-4f0b-bebd-111277bb5dc2>

**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-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 Accredited by A2LA.



Cell #4329.02  
01df8823f68a4f0bbebd111277bb5dc2.1

Prepared for:  
**Vlasic Labs**

1699 Traditional  
Commerce, MI USA 48390

## 3,000 mg CBD isolate

Batch ID or Lot Number: <b>T35222-1</b>	Test, Test ID and Methods: Various	Matrix: Concentrate	Page 1 of 4
Reported: <b>12Jan2023</b>	Started: 11Jan2023	Received: 10Jan2023	


## Residual Solvents


Test ID: T000232437

Methods: TM04 (GC-MS): Residual

Solvents	Dynamic Range (ppm)	Result (ppm)	Notes
Propane	91 - 1820	ND	
Butanes (Isobutane, n-Butane)	182 - 3642	ND	
Methanol	56 - 1125	ND	
Pentane	94 - 1875	ND	
Ethanol	91 - 1823	ND	
Acetone	93 - 1866	ND	
Isopropyl Alcohol	94 - 1886	ND	
Hexane	6 - 117	ND	
Ethyl Acetate	95 - 1899	ND	
Benzene	0.2 - 3.9	ND	
Heptanes	95 - 1895	ND	
Toluene	17 - 336	ND	
Xylenes (m,p,o-Xylenes)	118 - 2364	ND	

## Final Approval

  
Karen Winternheimer  
12Jan2023  
01:40:00 PM MST  
PREPARED BY / DATE

  
Sam Smith  
12Jan2023  
01:42:00 PM MST  
APPROVED BY / DATE

Prepared for:  
**Vlasic Labs**

1699 Traditional  
Commerce, MI USA 48390

## 3,000 mg CBD isolate

Batch ID or Lot Number: <b>T35222-1</b>	Test, Test ID and Methods: Various	Matrix: Concentrate	Page 2 of 4
Reported: <b>12Jan2023</b>	Started: 11Jan2023	Received: 10Jan2023	

### Pesticides


Test ID: T000232435

Methods: TM17

(LC-QQ LC MS/MS)	Dynamic Range (ppb)	Result (ppb)		Dynamic Range (ppb)	Result (ppb)	
Abamectin	287 - 2757	ND		Malathion	278 - 2693	ND
Acephate	42 - 2767	ND		Metalaxyl	45 - 2738	ND
Acetamiprid	41 - 2763	ND		Methiocarb	40 - 2736	ND
Azoxystrobin	41 - 2733	ND		Methomyl	38 - 2770	ND
Bifenazate	41 - 2737	ND		MGK 264 1	178 - 1610	ND
Boscalid	42 - 2801	ND		MGK 264 2	123 - 1152	ND
Carbaryl	38 - 2746	ND		Myclobutanil	35 - 2750	ND
Carbofuran	40 - 2721	ND		Naled	45 - 2715	ND
Chlorantraniliprole	37 - 2705	ND		Oxamyl	40 - 2751	ND
Chlorpyrifos	37 - 2780	ND		Paclobutrazol	44 - 2718	ND
Clofentezine	268 - 2721	ND		Permethrin	292 - 2794	ND
Diazinon	275 - 2756	ND		Phosmet	43 - 2737	ND
Dichlorvos	265 - 2778	ND		Prophos	264 - 2718	ND
Dimethoate	39 - 2751	ND		Propoxur	41 - 2723	ND
E-Fenpyroximate	285 - 2784	ND		Pyridaben	285 - 2782	ND
Etofenprox	41 - 2782	ND		Spinosad A	34 - 2219	ND
Etoxazole	285 - 2761	ND		Spinosad D	48 - 500	ND
Fenoxycarb	41 - 2744	ND		Spiromesifen	268 - 2797	ND
Fipronil	43 - 2788	ND		Spirotetramat	283 - 2743	ND
Flonicamid	48 - 2799	ND		Spiroxamine 1	15 - 1173	ND
Fludioxonil	265 - 2757	ND		Spiroxamine 2	17 - 1560	ND
Hexythiazox	48 - 2801	ND		Tebuconazole	275 - 2701	ND
Imazalil	266 - 2735	ND		Thiacloprid	40 - 2765	ND
Imidacloprid	43 - 2766	ND		Thiamethoxam	43 - 2782	ND
Kresoxim-methyl	23 - 2764	ND		Trifloxystrobin	40 - 2742	ND

### Final Approval

  
 Karen Winternheimer  
 13Jan2023  
 09:34:00 AM MST  
 PREPARED BY / DATE

  
 Sam Smith  
 13Jan2023  
 09:37:00 AM MST  
 APPROVED BY / DATE

Prepared for:  
**Vlasic Labs**

1699 Traditional  
Commerce, MI USA 48390

## 3,000 mg CBD isolate


Batch ID or Lot Number: <b>T35222-1</b>	Test, Test ID and Methods: Various	Matrix: Concentrate	Page 3 of 4
Reported: <b>12Jan2023</b>	Started: 11Jan2023	Received: 10Jan2023	

## Heavy Metals


Test ID: T000232436  
Methods: TM19 (ICP-MS): Heavy

Metals	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.04 - 4.50	ND	
Cadmium	0.05 - 4.60	ND	
Mercury	0.05 - 4.56	ND	
Lead	0.04 - 4.37	ND	

### Final Approval

  
Sam Smith  
16Jan2023  
12:31:00 PM MST

PREPARED BY / DATE

  
Karen Winternheimer  
16Jan2023  
12:34:00 PM MST


APPROVED BY / DATE

## Mycotoxins

Test ID: T000232438  
Methods: TM18 (UHPLC-QQQ)  
LCMS/MS: Mycotoxins

LCMS/MS: Mycotoxins	Dynamic Range (ppb)	Result (ppb)	Notes
Ochratoxin A	4.41 - 129.69	ND	N/A
Aflatoxin B1	1.09 - 32.54	ND	
Aflatoxin B2	1.03 - 32.74	ND	
Aflatoxin G1	1.13 - 32.80	ND	
Aflatoxin G2	1.06 - 32.70	ND	
Total Aflatoxins (B1, B2, G1, and G2)		ND	

### Final Approval

  
Sam Smith  
19Jan2023  
07:43:00 AM MST

PREPARED BY / DATE

  
Karen Winternheimer  
19Jan2023  
07:44:00 AM MST

APPROVED BY / DATE

Prepared for:  
**Vlasic Labs**

1699 Traditional  
Commerce, MI USA 48390

## 3,000 mg CBD isolate

Batch ID or Lot Number: <b>T35222-1</b>	Test, Test ID and Methods: Various	Matrix: Concentrate	Page 4 of 4
Reported: <b>12Jan2023</b>	Started: 11Jan2023	Received: 10Jan2023	



<https://results.botanacor.com/api/v1/coas/uuid/1d9da15b-8d47-400c-9ce5-bc6ef829cb63>

**Definitions**  
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 using the following formulas to take into account the loss of a carboxyl group 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<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.

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. Some tests listed on this COA may not be within our scope of A2LA accreditation. Please visit [A2LA for more details](#).



Cert #4329.02  
1d9da15b8d47400c9ce5bc6ef829cb63.1



12423 NE Whitaker Way  
Portland, OR 97230  
503-254-1794



**Report Number:** 22-015890/D004.R000  
**Report Date:** 01/17/2023  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 12/29/22 11:43

**Customer:** Vlastic Labs  
**Product identity:** T35222-1 (3,000mg CBD Isolate)  
**Client/Metric ID:** .  
**Laboratory ID:** 22-015890-0001

## Summary

### Microbiology:

*Less than LOQ for all analytes.*



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 Portland, OR 97230  
 503-254-1794



**Report Number:** 22-015890/D004.R000  
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**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 12/29/22 11:43

**Customer:** Vlastic Labs  
 1699 Traditional Commerce  
 Walled Lake Michigan 48390  
 United States of America (USA)  
**Product identity:** T35222-1 (3,000mg CBD Isolate)  
**Client/Metric ID:** .  
**Sample Date:**  
**Laboratory ID:** 22-015890-0001  
**Evidence of Cooling:** No  
**Temp:** 14.8 °C  
**Relinquished by:** UPS

### Sample Results

#### Microbiology

Analyte	Result	Limits	Units	LOQ	Batch	Analyzed Method	Status	Notes
Aerobic Plate Count	< LOQ		cfu/g	10	2300101	01/07/23 AOAC 990.12 (Petrifilm) <sup>P</sup>		
E.coli	< LOQ		cfu/g	10	2300099	01/07/23 AOAC 991.14 (Petrifilm) <sup>P</sup>		
Total Coliforms	< LOQ		cfu/g	10	2300099	01/07/23 AOAC 991.14 (Petrifilm) <sup>P</sup>		
Mold (RAPID Petrifilm)	< LOQ		cfu/g	10	2300100	01/08/23 AOAC 2014.05 (RAPID) <sup>P</sup>		
Yeast (RAPID Petrifilm)	< LOQ		cfu/g	10	2300100	01/08/23 AOAC 2014.05 (RAPID) <sup>P</sup>		



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**Purchase Order:**  
**Received:** 12/29/22 11:43

These test results are representative of the individual sample selected and submitted by the client.

**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.

<sup>h</sup> = ISO/IEC 17025:2017 accredited method.

**Units of Measure**

cfu/g = Colony forming units per gram

% wt = µg/g divided by 10,000

Approved Signatory

Derrick Tanner  
General Manager





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Portland, OR 97230  
503-254-1794



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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	Quantitation level raised due to matrix interference.
B	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.