

Prepared for:
Vlasic Labs

1699 Traditional
Commerce, MI USA 48390

35.27mg/g CBD FS Dist roll on

Batch ID or Lot Number: Lot: 231122003 Item: 207.005.0018	Test: Potency	Reported: 08Dec2023	USDA License: N/A
Matrix: Concentrate	Test ID: T000263636	Started: 06Dec2023	Sampler ID: N/A
	Method(s): TM14 (HPLC-DAD)	Received: 05Dec2023	Status: N/A

Cannabinoids

	LOD (%)	LOQ (%)	Result (%)	Result (mg/g)	Notes
Cannabichromene (CBC)	0.018	0.062	0.070	0.70	
Cannabichromenic Acid (CBCA)	0.017	0.057	ND	ND	
Cannabidiol (CBD)	0.053	0.160	3.730	37.30	
Cannabidiolic Acid (CBDA)	0.055	0.164	ND	ND	
Cannabidivarin (CBDV)	0.013	0.038	ND	ND	
Cannabidivarinic Acid (CBDVA)	0.023	0.068	ND	ND	
Cannabigerol (CBG)	0.010	0.035	0.090	0.90	
Cannabigerolic Acid (CBGA)	0.043	0.147	ND	ND	
Cannabinol (CBN)	0.013	0.046	<LOQ	<LOQ	
Cannabinolic Acid (CBNA)	0.029	0.100	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.051	0.175	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.047	0.159	<LOQ	<LOQ	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.041	0.141	ND	ND	
Tetrahydrocannabivarin (THCV)	0.009	0.032	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	0.036	0.124	ND	ND	
Total Cannabinoids			3.890	38.90	
Total Potential THC			0.000	0.00	
Total Potential CBD			3.730	37.30	

Final Approval



Karen Winternheimer
08Dec2023
03:02:00 PM MST

PREPARED BY / DATE



Sam Smith
08Dec2023
03:03:00 PM MST

APPROVED BY / DATE



<https://results.botanacor.com/api/v1/coas/uuid/b4758eb5-17d4-407a-97d9-cb1a8ba37e79>

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 A2LA Cert #: 4329.02 Chemical; 4329.03 Biological.



Cert #4329.02
b4758eb517d4407a97d9cb1a8ba37e79.1

Prepared for:
Vlasic Labs


1699 Traditional
Commerce, MI USA 48390

35.27mg/g CBD FS Dist roll on

Batch ID or Lot Number: Lot: 231122003 Item: 207.005.0018	Test: Mycotoxins	Reported: 29Nov2023	USDA License: N/A
Matrix: Finished Product	Test ID: T000263010	Started: 28Nov2023	Sampler ID: N/A
	Method(s): TM18 (UHPLC-QQQ LCMS/MS): Mycotoxins	Received: 24Nov2023	Status: Active

Mycotoxins	Dynamic Range (ppb)	Result (ppb)	Notes
Ochratoxin A	2.19 - 127.79	ND	N/A
Aflatoxin B1	0.89 - 30.95	ND	
Aflatoxin B2	0.89 - 31.23	ND	
Aflatoxin G1	0.96 - 31.41	ND	
Aflatoxin G2	1.05 - 31.57	ND	
Total Aflatoxins (B1, B2, G1, and G2)		ND	

Final Approval



Sam Smith
29Nov2023
02:03:00 PM MST

PREPARED BY / DATE



Karen Winternheimer
29Nov2023
02:08:00 PM MST

APPROVED BY / DATE



<https://results.botanacor.com/api/v1/coas/uuid/e86ee159-4c64-4504-b3d1-81324edbad02>

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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e86ee1594c644504b3d181324edbad02.1

Prepared for:
Vlasic Labs


1699 Traditional
Commerce, MI USA 48390

35.27mg/g CBD FS Dist roll on

Batch ID or Lot Number: Lot: 231122003 Item: 207.005.0018	Test: Pesticides	Reported: 01Dec2023	USDA License: NA
Matrix: Concentrate	Test ID: T000263007	Started: 30Nov2023	Sampler ID: NA
	Method(s): TM17 (LC-QQ LC MS/MS)	Received: 24Nov2023	Status: NA

Pesticides	Dynamic Range (ppb)	Result (ppb)	Pesticides	Dynamic Range (ppb)	Result (ppb)
Abamectin	385 - 3277	ND	Malathion	280 - 2762	ND
Acephate	43 - 2767	ND	Metalaxyl	46 - 2743	ND
Acetamiprid	42 - 2720	ND	Methiocarb	47 - 2707	ND
Azoxystrobin	44 - 2764	ND	Methomyl	44 - 2802	ND
Bifenazate	44 - 2711	ND	MGK 264 1	164 - 1610	ND
Boscalid	41 - 2623	ND	MGK 264 2	113 - 1089	ND
Carbaryl	43 - 2708	ND	Myclobutanil	17 - 2632	ND
Carbofuran	44 - 2682	ND	Naled	46 - 2642	ND
Chlorantraniliprole	50 - 2579	ND	Oxamyl	43 - 2793	ND
Chlorpyrifos	50 - 2781	ND	Pacllobutrazol	48 - 2595	ND
Clofentezine	283 - 2691	ND	Permethrin	260 - 2759	ND
Diazinon	289 - 2727	ND	Phosmet	43 - 2585	ND
Dichlorvos	283 - 2752	ND	Prophos	303 - 2679	ND
Dimethoate	43 - 2726	ND	Propoxur	45 - 2707	ND
E-Fenproximate	286 - 2761	ND	Pyridaben	298 - 2830	ND
Etofenprox	43 - 2781	ND	Spinosad A	32 - 2128	ND
Etoxazole	287 - 2702	ND	Spinosad D	65 - 685	ND
Fenoxycarb	30 - 2714	ND	Spiromesifen	273 - 2747	ND
Fipronil	49 - 2636	ND	Spirotetramat	267 - 2754	ND
Flonicamid	43 - 2740	ND	Spiroxamine 1	16 - 1027	ND
Fludioxonil	315 - 2625	ND	Spiroxamine 2	28 - 1553	ND
Hexythiazox	42 - 2753	ND	Tebuconazole	286 - 2594	ND
Imazalil	263 - 2804	ND	Thiacloprid	43 - 2746	ND
Imidacloprid	43 - 2776	ND	Thiamethoxam	40 - 2752	ND
Kresoxim-methyl	45 - 2761	ND	Trifloxystrobin	46 - 2738	ND

Final Approval



Karen Winternheimer
01Dec2023
09:36:00 AM MST

PREPARED BY / DATE



Sam Smith
01Dec2023
09:42:00 AM MST

APPROVED BY / DATE



<https://results.botanacor.com/api/v1/coas/uuid/cc2bf9e8-7541-4443-b29a-5546611e328b>

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

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cc2bf9e875414443b29a5546611e328b.1

Prepared for:
Vlasic Labs


1699 Traditional
Commerce, MI USA 48390


35.27mg/g CBD FS Dist roll on

Batch ID or Lot Number: Lot: 231122003 Item: 207.005.0018	Test: Heavy Metals	Reported: 30Nov2023	USDA License: NA
Matrix: Finished Product	Test ID: T000263008	Started: 29Nov2023	Sampler ID: NA
	Method(s): TM19 (ICP-MS): Heavy Metals	Received: 24Nov2023	Status: 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


 Sam Smith
 30Nov2023
 07:58:00 AM MST
 PREPARED BY / DATE


 Karen Winternheimer
 30Nov2023
 08:00:00 AM MST
 APPROVED BY / DATE



<https://results.botanacor.com/api/v1/coas/uuid/d12f540f-bf54-4700-8fc7-e3b351abe405>

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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Cert #4329.02
 d12f540fbf5447008fc7e3b351abe405.1

Prepared for:
Vlasic Labs

1699 Traditional
Commerce, MI USA 48390

35.27mg/g CBD FS Dist roll on

Batch ID or Lot Number: Lot: 231122003 Item: 207.005.0018	Test: Residual Solvents	Reported: 30Nov2023	USDA License: N/A
Matrix: Topical	Test ID: T000263009	Started: 29Nov2023	Sampler ID: N/A
	Method(s): TM04 (GC-MS): Residual Solvents	Received: 24Nov2023	Status: Active

Residual Solvents	Dynamic Range (ppm)	Result (ppm)	Notes
Propane	93 - 1865	ND	
Butanes (Isobutane, n-Butane)	183 - 3661	ND	
Methanol	68 - 1360	ND	
Pentane	100 - 2003	ND	
Ethanol	107 - 2147	ND	
Acetone	105 - 2102	ND	
Isopropyl Alcohol	113 - 2261	>2261	
Hexane	6 - 129	ND	
Ethyl Acetate	109 - 2179	ND	
Benzene	0.2 - 4.2	ND	
Heptanes	104 - 2081	ND	
Toluene	20 - 392	ND	
Xylenes (m,p,o-Xylenes)	143 - 2864	ND	

Final Approval



Karen Winternheimer
30Nov2023
12:48:00 PM MST

PREPARED BY / DATE



Sam Smith
30Nov2023
12:50:00 PM MST

APPROVED BY / DATE



<https://results.botanacor.com/api/v1/coas/uuid/f8324d68-0a58-4872-8001-cf99538c6d7c>

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



Report Number: 23-013898/D005.R000
Report Date: 12/04/2023
ORELAP#: OR100028
Purchase Order:
Received: 11/28/23 10:24

Customer: Vlastic Labs
Product identity: 35.27mg/g CBD FS Dist roll on
Client/Metric ID: LOT 231122003
Laboratory ID: 23-013898-0003

Summary

Microbiology:

Less than LOQ for all analytes.



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 503-254-1794



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Purchase Order:
Received: 11/28/23 10:24

Customer: Vlastic Labs

Product identity: 35.27mg/g CBD FS Dist roll on
Client/Metric ID: LOT 231122003
Sample Date:
Laboratory ID: 23-013898-0003
Evidence of Cooling: No
Temp: 17.4 °C
Relinquished by: shipping

Sample Results

Microbiology

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



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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.

Units of Measure

cfu/g = Colony forming units per gram

% wt = $\mu\text{g/g}$ divided by 10,000

Approved Signatory

Derrick Tanner
General Manager



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



Report Number: 23-013898/D005.R000
Report Date: 12/04/2023
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12423 NE Whitaker Way
 Portland, OR 97230
 503-254-1794



Report Number: 23-013898/D005.R000
Report Date: 12/04/2023
ORELAP#: OR100028
Purchase Order:
Received: 11/28/23 10:24

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.