

Chocolate Bar-M

Sample ID: BIA241001S0015
Strain: Peppermint Chocolate Bar
Matrix: Ingestible
Type: Chocolate
Sample Size: 54.576 g
Lot#: MAN0017-00124

Produced: Collected:
Received: 10/01/2024
Completed: 10/08/2024
Batch#: MANU0027-C0069

Client:
Altitude Drops
Lic. # MANU0017
 1723 Evansville Rd
 Brownington, VT 05860



Summary

Test	Date Tested	Result
Sample		Complete
Cannabinoids	10/04/2024	Complete

Cannabinoids

Completed

4.91 mg/serving
 Total THC

ND
 Total CBD

5.00 mg/serving
 Total Cannabinoids

Analyte	LOQ	Results	Results	Mass	Mass
	%	%	mg/g	mg/serving	mg/container
CBDVa	0.0001	<LOQ	<LOQ	<LOQ	<LOQ
CBDV	0.0001	<LOQ	<LOQ	<LOQ	<LOQ
CBDa	0.0001	<LOQ	<LOQ	<LOQ	<LOQ
CBGa	0.0001	<LOQ	<LOQ	<LOQ	<LOQ
CBG	0.0002	<LOQ	<LOQ	<LOQ	<LOQ
CBD	0.0002	<LOQ	<LOQ	<LOQ	<LOQ
THCV	0.0002	<LOQ	<LOQ	<LOQ	<LOQ
CBN	0.0001	<LOQ	<LOQ	<LOQ	<LOQ
Δ9-THC	0.0002	0.16	1.6	4.24	84.74
Δ8-THC	0.0002	<LOQ	<LOQ	<LOQ	<LOQ
Δ10-THC	0.0000	<LOQ	<LOQ	<LOQ	<LOQ
CBC	0.0002	<LOQ	<LOQ	<LOQ	<LOQ
THCa	0.0003	0.03	0.3	0.77	15.34
Total THC		0.18	1.80	4.91	98.20
Total CBD		ND	ND	ND	ND
Total		0.18	1.83	5.00	100.08

Analyst: 048

Cannabinoids Methodology: High Performance Liquid Chromatography (HPLC) using PerkinElmer FLEXAR™ with Photo Diode Array Detector (PDA)

Total CBD and total THC are calculated values, to account for assumed decarboxylation from the acid form (THCA or CBDA) to the neutral form, causing weight loss of the acid group. These values are calculated as follows:

$$\text{Total THC} = (\text{THCA} \times 0.877) + \Delta 9\text{-THC}$$

$$\text{Total CBD} = (\text{CBDA} \times 0.877) + \text{CBD Reagent}$$

Blanks: < LOQs for all analytes

LOQ = The lowest quantity that this method can reliably detect. Any cannabinoid that was not detected is assumed to be less than the stated LOQ (<LOQ).

All results reflect dry weight of material, based on % moisture of the sample.

Measurement of Uncertainty (MU): the parameter, associated with the result of a measurement, that characterizes the dispersion of the values that could reasonably be attributed to the particular quantity subject to measurement. Δ9-THC MU = ±0.005% Total THC MU = ±0.007%

All other cannabinoid MU values are available upon request.

All moisture and water activity analysis is determined by dewpoint measurement using an AQUALAB water activity meter.




Luke Emerson-Mason
 Laboratory Director
 10/08/2024

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coa.support@con.dentlims.com
 (866) 506-5866
www.con.dentlims.com





261 Mountain View Dr
Colchester, VT 05446
License #: TLAB0030
802-767-7256
info@onwardanalytics.biz

Certificate of Analysis

Client Name: Vermont Kind
License Number: SCLT0186

Sample ID: VT11853
Sample Name: Altitude Drops Virgin Extract
Sample Lot: MANU0027-C0069
Sample Matrix: Solvent Extraction Concentrates
Date Received: 7/31/2024
Date Reported: 8/7/2024
Date Tested: 8/1/2024



Total Terpenes (%) : 6.2464

Dominant Terpenes (%)

beta-caryophyllene	1.7333
Myrcene	1.1476
alpha-Bisabolol	0.9004
alpha-Humulene	0.6699
Limonene	0.5631

Terpenes

Standard terpene analysis utilizing Gas Chromatography – Mass Spectrometry (GC-MS; SOP-069-OA) | Test ID: #35897

Analyte	Result (%)	Result (mg/g)	LOD (mg/g)	LOQ (mg/g)
3-Carene	ND	ND 9.004	0.000002	0.001
alpha-Bisabolol	ND	6.699 1.64	0.000003	0.001
alpha-Humulene	0.9004	ND 0.117	0.000002	0.001
alpha-Pinene	0.6699	17.333 1.252	0.000001	0.001
alpha-Terpinene	0.164	0.169 0.862	0.000001	0.001
alpha-Terpinolene	ND	0.409 0.118	0.000004	0.001
beta-caryophyllene	0.0117	ND 3.108 ND	0.000004	0.001
beta-Pinene	1.7333	ND 5.631	0.000002	0.001
Camphene	0.1252	2.622 1.761	0.000001	0.001
Caryophyllene Oxide	0.0169	11.476 0.263	0.000011	0.001
Eucalyptol	0.0862		0.000002	0.001
gamma-Terpinene	0.0409		0.000002	0.001
Geraniol	0.0118		0.000008	0.003
Guaiol	ND		0.000007	0.001
Isopulegol	0.3108		0.000005	0.001
Isopropyl Toluene	ND ND		0.000003	0.001
Limonene	0.5631		0.000002	0.001
Linalool	0.2622		0.000003	0.001
Nerolidol	0.1761		0.000007	0.001
Myrcene	1.1476		0.000003	0.001
Ocimene	0.0263		0.000002	0.001

Total Terpenes

6.2464

62.464

Callie Chapman

Callie Chapman
Lab Director
8/7/2024

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Certificate of Analysis



Client Name: Vermont Kind

License Number: SCLT0186



Sample ID: VT11853

Sample Name: Altitude Drops Virgin Extract

Sample Lot: MANU0027-C0069

Sample Matrix: Solvent Extraction Concentrates

Date Received: 7/31/2024

Date Reported: 8/7/2024

Date Tested: 7/31/2024



Residual Solvents

Pass

Residual solvents and processing chemicals analysis utilizing Headspace Gas Chromatography – Mass Spectrometry (HS-GC-MS; SOP-010-OA) - Limit units: g/g | Test ID: #35894

Analyte	Pass/Fail	Result (ppm)	Limit	LOD (ppm)	LOQ (ppm)
Acetone	Pass	< LOQ < LOQ	5000.000	4.730	14.200
Acetonitrile	Pass	< LOQ < LOQ	410.000	0.480	1.450
Benzene	Pass	< LOQ < LOQ	2.000	0.020	0.060
Chloroform	Pass	< LOQ < LOQ	60.000	0.070	0.210
Ethanol	Pass	< LOQ < LOQ	5000.000	6.010	18.040
Heptanes (total)	Pass	< LOQ	5000.000	5.950	17.840
Hexanes (total)	Pass	< LOQ	0	0.350	1.040
Isopropyl Alcohol	Pass	< LOQ	5000.000	5.910	17.730
Methanol	Pass		3000.000	3.540	10.610
Methylene Chloride	Pass		600.000	6.400	19.190
Toluene	Pass		890.000	1.050	3.160
Xylenes (total)	Pass		2170.000	426	868
				14.858 *	45.024 *

Additional Solvent Analytes

Propane	Pass < LOQ	5000.000	5.420	16.260
2-Methylpropane	Pass < LOQ	5000.000	5.420	16.270
2,2-Dimethylbutane	Pass < LOQ	5000.000	0.340	1.020
2,3-Dimethylbutane	Pass < LOQ	5000.000	0.340	1.030
n-Butane	Pass < LOQ	5000.000	0.340	1.030
2-Methylpentane	Pass < LOQ	5000.000	5.390	16.160
3-Methylpentane	Pass < LOQ	5000.000	0.340	1.030
n-Pentane	Pass < LOQ	5000.000	0.680	2.050
Neopentane	Pass < LOQ	5000.000	5.890	17.670
		5000.000	5.900	17.700
		5000.000	11.870	35.620

* Xylenes action limit represents sum of m,p-Xylene and o-Xylene

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Lab Director
8/7/2024

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Sample Name: Altitude Drops Virgin Extract

Sample Lot: MANU0027-C0069

Sample Matrix: Solvent Extraction Concentrates

Date Received: 7/31/2024

Date Reported: 8/7/2024

Date Tested: 8/1/2024



Total Cannabinoids

	%	mg/g
Total THC:	57.805	578.046
Total CBD:	4.608	46.082
Total Cannabinoids:	65.547	655.472

Total theoretical CBD % = (CBD%) + (CBDA% * 0.877)
Total theoretical THC % = (delta-9-THC%) + (THCA% * 0.877)

Potency

Standard potency analysis utilizing High Performance Liquid Chromatography (HPLC; SOP-024-OA) | Test ID: #35893

Analyte	%	mg/g	LOD (mg/g)	LOQ (mg/g)
CBC	0.8011	8.011	0.0003	0.0040
CBCA	0.5308	5.308	0.0002	0.0040
CBD	2.7978	27.978	0.0008	0.0040
CBDA	2.0643	20.643	0.0002	0.0040
CBDV	ND	ND	0.0008	0.0040
CBDVA	ND	5.279	0.0001	0.0040
CBG	ND	ND	0.0009	0.0040
CBGA	0.5279	LOQ	0.0001	0.0040
CBN	ND	ND	0.0004	0.0040
CBNA D8	< LOQ	505.269	0.0002	0.0040
THC D9	ND	ND	0.0012	0.0040
THC D10	ND	82.984	0.0016	0.0049
THC	50.5269	ND	0.0004	0.0040
THCA	ND	ND	0.0002	0.0040
THCV	8.2984	ND	0.0016	0.0049
THCVA	ND	ND	0.0002	0.0040

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Sample Lot: MANU0027-C0069
Sample Matrix: Solvent Extraction Concentrates
Date Received: 7/31/2024
Date Reported: 8/7/2024
Date Tested: 8/1/2024



Pesticides

Pass

Residual pesticide analysis utilizing Liquid Chromatography – Mass Spectrometry (LC-MSMS; SOP-070-OA) - Limit units: ppm | Test ID: #35895

Ana l y t e	Pass/Fail	Result (ppm)	Limit	LOD (ppm)	LOQ (ppm)	
Abamectin B1a	Pass ND	Abamectin B1b	Pass ND	0.10000	0.00944	0.03114
Acephate	Pass ND	Acequinocyl	Pass ND	0.10000	0.00034	0.00113
Azoxystrobin	Pass ND	Bifenazate	Pass ND	0.10000	0.00404	0.01333
	Pass ND	Carbaryl	Pass ND	0.10000	0.02821	0.09310
Cypermethrin	Pass ND	Etoxazole	Pass ND	0.10000	0.00298	0.00983
	Pass ND	Imazalil	Pass ND	0.10000	0.00129	0.00427
	Pass ND	Imidacloprid	Pass ND	3.00000	0.01005	0.03317
Spinosyn A	Pass ND	Spinosyn D	Pass ND	0.50000	0.00402	0.01325
Pyrethrins	Pass ND			0.04000	0.00403	0.01329
				1.00000	0.01010	0.03333
				0.10000	0.00404	0.01333
				0.04000	0.01073	0.03539
				5.00000	0.00401	0.01323
				0.10000	0.00308	0.01016
				0.10000	0.00312	0.01029
				0.10000	0.00083	0.00273
				0.50000	0.0022	0.0072
					0.00498 *	0.00015 *

* Pyrethrins action limit represents sum of isomers I & II

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Sample ID: VT11853

Sample Name: Altitude Drops Virgin Extract

Sample Lot: MANU0027-C0069

Sample Matrix: Solvent Extraction Concentrates

Date Received: 7/31/2024

Date Reported: 8/7/2024

Date Tested: 8/5/2024



Heavy Metals

PASS

Heavy metals analysis utilizing Inductively Coupled Plasma Mass Spectrometry (ICP-MS; SOP-072-OA) - Limit units: ppm | Test ID: #35896

Analyte	Pass/Fail	Result (ppm)	Limit (ppm)	LOD (ppm)	LOQ (ppm)
Arsenic	PASS	< LOQ < LOQ	1.500 0.500	0.0000260	0.00050
Cadmium	PASS	< LOQ < LOQ	1.000 1.500	0.0000004	0.00050
Lead	PASS			0.0000190	0.00050
Mercury	PASS			0.0000039	0.00050

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