

STRAIGHT HEMP

CERTIFICATE OF ANALYSIS

PRODUCT: BATCH/LOT: **CBD Balm**

B0049

PRODUCTION DATE:

09/2021

EXPIRATION DATE:

09/2023

TEST	METHOD	SPECIFICATION	RESULTS
Strength & Composition			
Identity	Organoleptic	Conforming	PASS
Identity	HPLC/LCMS	Chemical Fingerprint	PASS
Total Cannabidiol (CBD) ⁱ	HPLC/LCMS	17.8 – 21.2 mg/g	19.79 mg/g
Total Tetrahydrocannabinol (THC)	HPLC/LCMS	NMT 0.30%	0.06%
Terpene assay ⁱⁱⁱ	HS-GC/MS	n/e	3.16%
Microbiological ^{iv}			
Total Plate Count	TM-26	NMT 10,000 cfu/g	PASS
Total Yeast & Mold	TM-24	NMT 1,000 cfu/g	PASS
Total Coliforms	TM-27	NMT 100 cfu/g	PASS
E. coli	TM-25	Absent/25g	PASS
Salmonella	TM-25	Absent/25g	PASS
Mycotoxins			
Alfatoxin B1	LCMS	NMT 20 ppb	PASS
Alfatoxin B2	LCMS	NMT 20 ppb	PASS
Alfatoxin G1	LCMS	NMT 20 ppb	PASS
Alfatoxin G2	LCMS	NMT 20 ppb	PASS
Ochratoxin	LCMS	NMT 20 ppb	PASS
Heavy Metals ^v			
Arsenic (As)	ICP/MS	NMT 1.0 ppm	PASS
Cadmium (Cd)	ICP/MS	NMT 0.5 ppm	PASS
Lead (Pb)	ICP/MS	NMT 0.5 ppm	PASS
Mercury (Hg)	ICP/MS	NMT 0.1 ppm	PASS

ⁱ Total CBD = CBD + (0.877*CBDa) to account for loss of acid group during decarboxylation

 $^{^{\}mathrm{ii}}$ Total THC = THC + (0.877*THCa) to account for loss of acid group during decarboxylation

iii Sum of terpene assay (n=22)

iv Microbiological limits based on USP, WHO, and/or NSF/ANSI

v Limits for As and Pb set below CA Prop 65 no significant risk level; Cd and Hg set below USP permitted daily exposure for 110lb body weight. Complies with 6 CCR 1010-21



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TEST	METHOD	SPECIFICATION	RESULTS
Residual Solvents ^{vi}			
Acetone	GC-MS	Below MRL	PASS
Benzene	GC-MS	Below MRL	PASS
Butanes	GC-MS	Below MRL	PASS
Ethanol	GC-MS	Below MRL	PASS
Ethyl Acetate	GC-MS	Below MRL	PASS
Heptanes	GC-MS	Below MRL	PASS
Hexane	GC-MS	Below MRL	PASS
Isopropyl Alcohol	GC-MS	Below MRL	PASS
Methanol	GC-MS	Below MRL	PASS
Pentane	GC-MS	Below MRL	PASS
Propane	GC-MS	Below MRL	PASS
Toluene	GC-MS	Below MRL	PASS
Xylenes	GC-MS	Below MRL	PASS
Pesticides			
Multi-residue panel	UPLC-MS/MS	Below MRLvii	PASS

NMT = Not More Than

MRL = Method Reporting Limit

n/e = not established

David Cole

Director of Quality

vi 21 solvent panel may also include: 1,1-Dichlorothene, 1,2-Dichloroethane, Acetonitrile, Chloroform, Ethyl Ether, Ethylene Oxide, Methylene Chloride, Trichloroethylene.

vii₅₀ residue nane



Official Compliance: Colorado CERTIFICATE OF ANALYSIS

Prepared for:

CBD Balm Straight Hemp

Batch ID or Lot Number: Test: Reported: Location:

5135 W 58th Ave, Unit 5 Arvada, CO 80002

Matrix: Test ID: Started: USDA License:

9/15/21

Concentrate T000162480 9/13/21 N/A

Status: Method: Received: Sampler ID:

N/A TM14 (HPLC-DAD): Potency - Broad 09/09/2021 @ 09:16 AM N/A Spectrum Analysis, 0.01% THC

(Colorado Panel)

Potency

CANNABINOID PROFILE

B0049

Compound	LOD (%)	LOQ (%)	Result (%)	Result (mg/g)	Noto
Delta 9-Tetrahydrocannabinolic acid (THCA-A)	0.003	0.007	ND	ND	Notes
Delta 9-Tetrahydrocannabinol (Delta 9THC)	0.003	0.008	0.057	0.57	N/A
Cannabidiolic acid (CBDA)	0.019	0.061	0.056*	0.56*	
Cannabidiol (CBD)	0.019	0.060	1.930	19.30	
Delta 8-Tetrahydrocannabinol (Delta 8THC)	0.019	0.054	ND	ND	
Cannabinolic Acid (CBNA)	0.011	0.031	ND	ND	
Cannabinol (CBN)	0.005	0.014	ND	ND	
Cannabigerolic acid (CBGA)	0.016	0.046	ND	ND	
Cannabigerol (CBG)	0.004	0.011	ND \	ND	
Tetrahydrocannabivarinic Acid (THCVA)	0.014	0.039	ND	ND	
Tetrahydrocannabivarin (THCV)	0.003	0.010	ND	ND	
Cannabidivarinic Acid (CBDVA)	0.008	0.026	ND	ND	
Cannabidivarin (CBDV)	0.004	0.014	ND /	ND	
Cannabichromenic Acid (CBCA)	0.006	0.018	ND	ND	
Cannabichromene (CBC)	0.007	0.019	0.044	0.44	
Total Cannabinoids			2.087	20.87	
Total Potential THC**			0.057	0.57	
Total Potential CBD**			1.979	19.79	



Hannah Wright 15-Sep-2021 03:34 PM

Mygan News

Ryan Weems 15-Sep-21 3:35 PM

PREPARED BY / DATE

APPROVED BY / DATE

Definitions

% = % (w/w) = Percent (Weight of Analyte / Weight of Product)

* Indicates a value below the Limit of Quantitiation (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.

Total THC = THC + (THCa *(0.877)) and

Total CBD = CBD + (CBDa *(0.877))

Total Cannabinoids result reflects the absolute sum of all cannabinoids detected.

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

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CERTIFICATE OF ANALYSIS

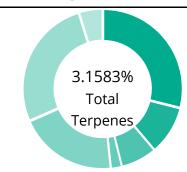
prepared for: Straight Hemp

5135 W 58th Ave, Unit 5 Arvada, CO 80002

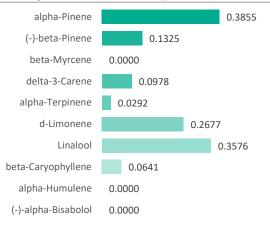
CBD Balm

Batch ID:	B0049	Test ID:	T000162481
Туре:	Topical	Submitted:	09/09/2021 @ 09:16 AM
Test:	Terpenes	Started:	9/13/2021
Method:	TM22 (GC-MS)	Reported:	9/14/2021

TERPENE PROFILE



PREDOMINANT TERPENES



Compound	%(w/w)	mg/g
(-)-alpha-Bisabolol	0.0000	0.000
Camphene	0.0731	0.731
delta-3-Carene	0.0978	0.978
beta-Caryophyllene	0.0641	0.641
(-)-Caryophyllene Oxide	0.0000	0.000
p-Cymene	0.0974	0.974
Eucalyptol	1.4951	14.951
Geraniol	0.0000	0.000
alpha-Humulene	0.0000	0.000
(-)-Isopulegol	0.0000	0.000
d-Limonene	0.2677	2.677
Linalool	0.3576	3.576
beta-Myrcene	0.0000	0.000
cis-Nerolidol	0.0123	0.123
trans-Nerolidol	0.0000	0.000
Ocimene	0.0061	0.061
beta-Ocimene	0.0000	0.000
alpha-Pinene	0.3855	3.855
(-)-beta-Pinene	0.1325	1.325
alpha-Terpinene	0.0292	0.292
gamma-Terpinene	0.1077	1.077
Terpinolene	0.0322	0.322
	3.1583	31.583

NOTES:

N/A

FINAL APPROVAL

Daniel Wortensaul

Daniel Weidensaul 14-Sep-2021 4:51 PM

Myon News

Rvan Weems 14-Sep-2021 4:52 PM

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CERTIFICATE OF ANALYSIS

Prepared for:

CBD Balm Straight Hemp

Batch ID or Lot Number: B0049	Test: Microbial Contaminants	Reported: 9/12/21	Location: 5135 W 58th Ave, Unit 5 Arvada, CO 80002
Matrix:	Test ID:	Started:	USDA License:
Finished Product	T000162483	9/8/21	N/A

Methods: Sampler ID: Status: Received: TM25 (qPCR) 09/09/2021 @ 09:16 AM N/A N/A

> TM24, TM26, TM27(Culture Plating): Microbial (Colorado Panel)

MICROBIAL CONTAMINANTS DETERMINATION

Contaminant	Method	LOD	LLOQ	ULOQ	Result
Total Aerobic Count*	TM-26, Culture Plating	10^2 CFU/g	10^3 CFU/g	1.5x10^5 CFU/g	None Detected
Total Coliforms*	TM-27, Culture Plating	10^2 CFU/g	10^2 CFU/g	1.5x10^4 CFU/g	None Detected
Total Yeast and Mold*	TM-24, Culture Plating	10^2 CFU/g	10^2 CFU/g	1.5x10^4 CFU/g	None Detected
E. coli (STEC)	TM-25, PCR	1 CFU/25 g	NA	NA	Absent
Salmonella	TM-25, PCR	1 CFU/25 g	NA	NA	Absent

Notes

Free from visual mold, mildew, and foreign matter

Brett Hudson 9/12/2021 11:02:00 AM

APPROVED BY / DATE

Sarah Henning 9/12/2021 1:33:00 PM

PREPARED BY / DATE

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: $10^2 = 100 CFU$

10^3 = 1.000 CFU 10^4 = 10,000 CFU 10^5 = 100,000 CFU

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Prepared for:

CBD Balm Straight Hemp

Batch ID or Lot Number: B0049	Test: Mycotoxins	Reported: 9/13/21	Location: 5135 W 58th Ave, Unit 5 Arvada, CO 80002
Matrix: Concentrate	Test ID: T000162486	Started: 9/10/21	USDA License: N/A
Status: N/A	Method: TM18 (UHPLC-QQQ LCMS/MS): Mycotoxins (Colorado Panel)	Received: 09/09/2021 @ 09:16 AM	Sampler ID: N/A

MYCOTOXIN DETERMINATION

Compound	Dynamic Range (ppb)	Result (ppb)	Notes
Ochratoxin A	1.9 - 125.7	ND	N/A
Aflatoxin B1	1 - 32.8	ND	
Aflatoxin B2	0.9 - 32.7	ND	
Aflatoxin G1	1 - 32.5	ND	
Aflatoxin G2	1 - 31.9	ND	
Total Aflatoxins (B1, B2, G1, and G2)		ND	

Samantha Smil

Sam Smith 13-Sep-21 6:13 AM

APPROVED BY / DATE

Alex Smith 13-Sep-21 7:07 AM

Definitions

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

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Prepared for:

CBD Balm Straight Hemp

Batch ID or Lot Number: B0049	Test: Metals	Reported: 9/15/21	Location: 5135 W 58th Ave, Unit 5 Arvada, CO 80002
Matrix: Unit Co	Test ID: T000162484	Started: 9/14/21	USDA License: N/A
Status: N/A	Method: TM19 (ICP-MS): Heavy Metals (Colorado Panel)	Received: 09/09/2021 @ 09:16 AM	Sampler ID: N/A

HEAVY METALS DETERMINATION

Compound]	Dynamic Range (ppm)	Result (ppm)	Note
Arsenic		0.051 - 5.07	ND	_
Cadmium		0.047 - 4.69	ND	_
Mercury		0.045 - 4.51	ND	
Lead		0.048 - 4.82	ND	
Sawantha Smill	Sam Smith 15-Sep-21 11:29 AM	Jan V	Ryan Weems 15-Sep-21 11:31 AM	
PREPARED BY / DATE		APPROVED B	Y / DATE	

Definitions

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

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Official Compliance: Colorado CERTIFICATE OF ANALYSIS

Prepared for:

CBD Balm Straight Hemp

Batch ID or Lot Number: Test: Reported: Location: 5135 W 58th Ave, Unit 5 B0049 **Residual Solvents** 9/16/21 Arvada, CO 80002 **USDA License:** Matrix: Test ID: Started: N/A T000162485 N/A 9/8/21 Methods: Sampler ID: Status: Received: TM04 (GC-MS): Residual Solvents 09/09/2021 @ 09:16 AM N/A N/A (Colorado Panel)

RESIDUAL SOLVENTS DETERMINATION

Solvent	Dynamic Range (ppm)	Result (ppm)	Notes
Propane	84 - 1690	*ND	_
Butanes (Isobutane, n-Butane)	165 - 3308	*ND	
Methanol	66 - 1311	*ND	
Pentane	93 - 1865	*ND	
Ethanol	102 - 2045	*ND	
Acetone	105 - 2094	*ND	
Isopropyl Alcohol	111 - 2224	*ND	
Hexane	6 - 125	*ND	
Ethyl Acetate	106 - 2128	*ND	
Benzene	0 - 4	*ND	
Heptanes	100 - 1993	*ND	
Toluene	19 - 381	*ND	
Xylenes (m.n.o-Xylenes)	137 - 2740	*ND	

Daniel Wantament

Daniel Weidensaul

16-Sep-21 12:22 PM

Karen Winternheimer 16-Sep-21

12:24 PM

APPROVED BY / DATE

Definitions

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



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CERTIFICATE OF ANALYSIS

Prepared for:

CBD Balm Straight Hemp

Batch ID or Lot Number: Test: Reported: Location: **B0049 Pesticides**9/15/21

Location:
5135 W 58th Ave, Unit 5

Arvada, CO 80002

Matrix: Test ID: Started: USDA License:

Concentrate T000162482 9/14/21 N/A

Status: Method: Received: Sampler ID:

N/A TM17(LC-QQQ LC MS/MS): 09/09/2021 @ 09:16 AM N/A

PESTICIDE DETERMINATION

Compound	LOQ (ppb)	Result (ppb)	Compound	LOQ (ppb)	Result (ppb)	Compound	LOQ (ppb)	Result (ppb)
Acephate	43	ND	Fenoxycarb	43	ND	Paclobutrazol	43	ND
Acetamiprid	40	ND	Fipronil	48	ND	Permethrin	287	ND
Avermectin	283	ND	Flonicamid	39	ND	Phosmet	44	ND
Azoxystrobin	43	ND	Fludioxonil	296	ND	Prophos	283	ND
Bifenazate	45	ND	Hexythiazox	47	ND	Propoxur	40	ND
Boscalid	59	ND	Imazalil	256	ND	Pyridaben	285	ND
Carbaryl	39	ND	Imidacloprid	38	ND	Spinosad A	35	ND
Carbofuran	40	ND	Kresoxim-methyl	150	ND	Spinosad D	50	ND
Chlorantraniliprole	56	ND	Malathion	292	ND	Spiromesifen	231	ND
Chlorpyrifos	500	ND	Metalaxyl	42	ND	Spirotetramat	329	ND
Clofentezine	276	ND	Methiocarb	40	ND	Spiroxamine 1	17	ND
Diazinon	282	ND	Methomyl	42	ND	Spiroxamine 2	23	ND
Dichlorvos	254	ND	MGK 264 1	161	ND	Tebuconazole	286	ND
Dimethoate	41	ND	MGK 264 2	133	ND	Thiacloprid	42	ND
E-Fenpyroximate	236	ND	Myclobutanil	40	ND	Thiamethoxam	43	ND
Etofenprox	43	ND	Naled	40	ND	Trifloxystrobin	43	ND
Etoxazole	269	ND	Oxamyl	1500	ND			

Samantha Small

Sam Smith 9/15/2021 10:08:00 AM

My Ny

Alex Benson 9/15/2021 2:50:00 PM

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Definitions

LOQ = Limit of Quantification ppb = Parts per Billion

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