

STRAIGHT HEMP

CERTIFICATE OF ANALYSIS

PRODUCT: BATCH/LOT:

CBD Balm

PRODUCTION DATE: **EXPIRATION DATE:**

> NMT = Not More Than MRL = Method Reporting Limit

5/2022 5/2024

B0051

TEST METHOD SPECIFICATION **RESULTS** Strength & Composition Identity Organoleptic Conforming **PASS** Identity HPLC/LCMS Chemical Fingerprint **PASS** Total Cannabidiol (CBD)i HPLC/LCMS 17.6 - 21.2 mg/g 18.16 mg/g Total Tetrahydrocannabinol (THC)ⁱⁱ HPLC/LCMS NMT 0.30% 0.036% Terpene assayiii HS-GC/MS n/e 3.7% 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**

 $^{^{\}rm i}$ Total CBD = CBD + (0.877*CBDa) to account for loss of acid group during decarboxylation

[&]quot;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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PRODUCT:

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B0051

PRODUCTION DATE: **EXPIRATION DATE:**

5/2022 5/2024

BATCH/LOT:

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 State of the Control of the	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 Methanol	GC-MS	Below MRL	PASS
ivietnanoi	GC-MS	Below MRL	PASS

Pesticides

Pentane

Propane

Toluene

Xylenes

Multi-residue panel

UPLC-MS/MS

GC-MS

GC-MS

GC-MS

GC-MS

Below MRLvii

Below MRL

Below MRL

Below MRL

Below MRL

PASS

PASS

PASS

PASS

PASS

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 panel



Official Compliance: Colorado CERTIFICATE OF ANALYSIS

Prepared for:

CBD Balm Straight Hemp

Batch ID or Lot Number: Test: Reported: Location: B0051

5135 W 58th Ave, Unit 5 5/24/22

Arvada, CO 80002

Matrix: Test ID: Started: **USDA License:**

T000207545 5/23/22 Concentrate N/A

Received: Sampler ID: Status: Method:

TM14 (HPLC-DAD): Potency - Broad Active 05/20/2022 @ 10:59 AM N/A

Spectrum Analysis, 0.01% THC

Potency

CANNABINOID PROFILE

Compound	LOD (%)	LOQ (%)	Result (%)	Result (mg/g)	Notes
Delta 9-Tetrahydrocannabinolic acid (THCA-A)	0.002	0.007	ND	ND	Mores
Delta 9-Tetrahydrocannabinol (Delta 9THC)	0.002	0.008	0.036	0.36	N/A
Cannabidiolic acid (CBDA)	0.016	0.051	<loq< td=""><td>0.26</td><td></td></loq<>	0.26	
Cannabidiol (CBD)	0.016	0.050	1.793	17.93	
Delta 8-Tetrahydrocannabinol (Delta 8THC)	0.015	0.052	ND	ND	
Cannabinolic Acid (CBNA)	0.009	0.030	ND	ND	
Cannabinol (CBN)	0.004	0.014	ND	ND	
Cannabigerolic acid (CBGA)	0.013	0.044	ND	ND	
Cannabigerol (CBG)	0.003	0.010	0.114	1.14	
Tetrahydrocannabivarinic Acid (THCVA)	0.011	0.037	ND	ND	
Tetrahydrocannabivarin (THCV)	0.003	0.010	ND	ND	
Cannabidivarinic Acid (CBDVA)	0.007	0.021	ND	ND	
Cannabidivarin (CBDV)	0.004	0.012	0.024	0.24	
Cannabichromenic Acid (CBCA)	0.005	0.017	ND	ND	
Cannabichromene (CBC)	0.005	0.018	0.033	0.33	
				1	
Total Cannabinoids			2.026	20.26	
Total Potential THC**			0.036	0.36	
Total Potential CBD**			1.816	18.16	

Karen Winternheimer 24-May-22 3:25 PM

Jacob Miller 24-May-22 3:28 PM

PREPARED BY / DATE

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Definitions

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

** 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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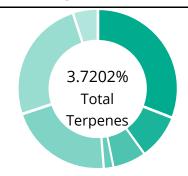
prepared for: Straight Hemp

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

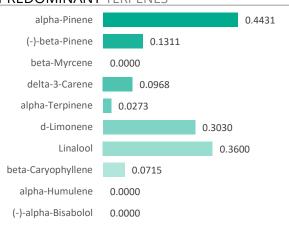
CBD Balm

Batch ID:	B0051	Test ID:	T000207546
Туре:	Topical	Submitted:	05/20/2022 @ 10:59 AM
Test:	Terpenes	Started:	5/24/2022
Method:	TM22 (GC-MS)	Reported:	5/25/2022

TERPENE PROFILE



PREDOMINANT TERPENES



Compound	%(w/w)	mg/g
(-)-alpha-Bisabolol	0.0000	0.000
Camphene	0.0953	0.953
delta-3-Carene	0.0968	0.968
beta-Caryophyllene	0.0715	0.715
(-)-Caryophyllene Oxide	0.0000	0.000
p-Cymene	0.1134	1.134
Eucalyptol	1.7498	17.498
Geraniol	0.1533	1.533
alpha-Humulene	0.0000	0.000
(-)-Isopulegol	0.0000	0.000
d-Limonene	0.3030	3.030
Linalool	0.3600	3.600
beta-Myrcene	0.0000	0.000
cis-Nerolidol	0.0000	0.000
trans-Nerolidol	0.0000	0.000
Ocimene	0.0067	0.067
beta-Ocimene	0.0000	0.000
alpha-Pinene	0.4431	4.431
(-)-beta-Pinene	0.1311	1.311
alpha-Terpinene	0.0273	0.273
gamma-Terpinene	0.1315	1.315
Terpinolene	0.0374	0.374
	3.7202	37.202

NOTES:

N/A

FINAL APPROVAL



lacob Miller 25-May-2022 12:19 PM

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Rvan Weems 25-Mav-2022 12:21 PM

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Certificate #4329.02



Official Compliance: Colorado

CERTIFICATE OF ANALYSIS

Prepared for:

Straight Hemp CBD Balm

Batch ID or Lot Number: B0051	Test: Microbial Contaminants	Reported: 5/24/22	Location: 5135 W 58th Ave, Unit 5 Arvada, CO 80002
Matrix:	Test ID:	Started:	USDA License:
Finished Product	T000207548	5/20/22	N/A
- Charles	Made de	Danai: vade	Constants

Received: Status: Methods: Sampler ID: TM25 (qPCR) Active 05/20/2022 @ 10:59 AM N/A

TM24, TM26, TM27(Culture Plating):

Microbial

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	10^1 CFU/g	10^2 CFU/g	1.5x10^4 CFU/g	None Detected
Total Yeast and Mold*	TM-24, Culture Plating	10^1 CFU/g	10^2 CFU/g	1.5x10^4 CFU/g	None Detected
STEC	TM-25, PCR	10^0 CFU/25 g	NA	NA	Absent
Salmonella	TM-25, PCR	10^0 CFU/25 g	NA	NA	Absent

Notes

Free from visual mold, mildew, and foreign matter

Carly Baden

PREPARED BY / DATE

Carly Bader 5/24/2022 1:32:00 PM

Eden Thompson

Eden Thompson-Wright 5/24/2022 3:20:00 PM

APPROVED 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.

10^2 = 100 CFU Examples:

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: B0051	Test: Mycotoxins	Reported: 5/26/22	Location: 5135 W 58th Ave, Unit 5 Arvada, CO 80002
Matrix:	Test ID:	Started:	USDA License:
Concentrate	T000207551	5/25/22	N/A
Status:	Method:	Received:	Sampler ID:
Active	TM18 (UHPLC-OOO LCMS/MS):	05/20/2022 @ 10:59 AM	N/A

MYCOTOXIN DETERMINATION

Mycotoxins

Compound	Dynamic Range (ppb)	Result (ppb)	Notes
Ochratoxin A	3.7 - 128	ND	N/A
Aflatoxin B1	1.1 - 33.8	ND	
Aflatoxin B2	1.3 - 33.9	ND	
Aflatoxin G1	1.2 - 33.6	ND	
Aflatoxin G2	1 - 33.5	ND	
Total Aflatoxins (B1, B2, G1, and G2)		ND	

Mygun Veus

Ryan Weems 26-May-22 11:15 AM

Samantha Smold

Sam Smith 26-May-22 11:19 AM

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Definitions

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: B0051	Test: Metals	Reported: 5/25/22	Location: 5135 W 58th Ave, Unit 5 Arvada, CO 80002
Matrix:	Test ID:	Started:	USDA License:
Unit Co	T000207549	5/25/22	N/A
Status:	Method:	Received:	Sampler ID:
Active	TM19 (ICP-MS): Heavy Metals	05/20/2022 @ 10:59 AM	N/A

HEAVY METALS DETERMINATION

Compour	nd	Dynamic Range (ppm)	Result (ppm)	No
Arsenic		0.043 - 4.28	ND	
Cadmium)	0.044 - 4.35	ND	
Mercury		0.044 - 4.36	ND	
Lead		0.036 - 3.58	ND	
Mysm News	Ryan Weems 25-May-22 3:31 PM	Famuel Worton	Daniel Weidensa 25-May-22 3:33 PM	aul
REPARED BY / DATE		APPROVED BY	/ DATE	

Definitions

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: B0051	Test: Residual Solvents	Reported: 5/24/22	Location: 5135 W 58th Ave, Unit 5 Arvada, CO 80002
Matrix:	Test ID:	Started:	USDA License:
N/A	T000207550	5/24/22	N/A
Status:	Methods:	Received:	Sampler ID:
Active	TM04 (GC-MS): Residual Solven	ats 05/20/2022 @ 10:59 AM	N/A

RESIDUAL SOLVENTS DETERMINATION

Solvent	Dynamic Range (ppm)	Result (ppm)	Notes
Propane	76 - 1523	*ND	
Butanes (Isobutane, n-Butane)	158 - 3159	*ND	
Methanol	61 - 1224	*ND	
Pentane	88 - 1752	*ND	
Ethanol	85 - 1692	*ND	
Acetone	98 - 1963	*ND	
Isopropyl Alcohol	97 - 1943	*ND	
Hexane	6 - 122	*ND	
Ethyl Acetate	99 - 1977	*ND	
Benzene	0.2 - 4.2	*ND	
Heptanes	100 - 2008	*ND	
Toluene	18 - 361	*ND	
Xylenes (m.n.o-Xylenes)	131 - 2627	*ND	

Samantha Smill

Sam Smith 24-May-22 4:06 PM

Mygun V.eus

Ryan Weems 24-May-22 4:08 PM

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Definitions

* 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: Reported: Test: Location: 5135 W 58th Ave, Unit 5 B0051 **Pesticides** 5/25/22 Arvada, CO 80002 Test ID: **USDA License:** Matrix: Started: T000207547 Concentrate 5/24/22 N/A

Status: Method: Received: Sampler ID:

N/A TM17(LC-QQQ LC MS/MS): 05/20/2022 @ 10:59 AM N/A

PESTICIDE DETERMINATION

Compound	LOQ (ppb)	Result (ppb)	Compound	LOQ (ppb)	Result (ppb)	Compound	LOQ (ppb)	Result (ppb)
Acephate	45	ND	Fenoxycarb	46	ND	Paclobutrazol	42	ND
Acetamiprid	43	ND	Fipronil	48	ND	Permethrin	297	ND
Abamectin	292	ND	Flonicamid	56	ND	Phosmet	42	ND
Azoxystrobin	42	ND	Fludioxonil	298	ND	Prophos	305	ND
Bifenazate	37	ND	Hexythiazox	48	ND	Propoxur	42	ND
Boscalid	45	ND	Imazalil	285	ND	Pyridaben	292	ND
Carbaryl	41	ND	Imidacloprid	46	ND	Spinosad A	34	ND
Carbofuran	42	ND	Kresoxim-methyl	150	ND	Spinosad D	52	ND
Chlorantraniliprole	56	ND	Malathion	288	ND	Spiromesifen	285	ND
Chlorpyrifos	500	ND	Metalaxyl	40	ND	Spirotetramat	281	ND
Clofentezine	275	ND	Methiocarb	43	ND	Spiroxamine 1	18	ND
Diazinon	278	ND	Methomyl	44	ND	Spiroxamine 2	25	ND
Dichlorvos	289	ND	MGK 264 1	183	ND	Tebuconazole	296	ND
Dimethoate	45	ND	MGK 264 2	124	ND	Thiacloprid	43	ND
E-Fenpyroximate	280	ND	Myclobutanil	42	ND	Thiamethoxam	43	ND
Etofenprox	40	ND	Naled	40	ND	Trifloxystrobin	40	ND
Etoxazole	298	ND	Oxamyl	1500	ND			

Daniel Westersand

Daniel Weidensaul 5/25/2022 11:14:00 AM

Samantha Smoll

Sam Smith 5/25/2022 11:19:00 AM

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Definitions

LOQ = Limit of Quantification ppb = Parts per Billion

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