



# STRAIGHT HEMP

## CERTIFICATE OF ANALYSIS

PRODUCT: CBD Balm  
BATCH/LOT: B0048

PRODUCTION DATE: 4/2021  
BEST BY/EXP DATE: 4/2023

TEST	METHOD	SPECIFICATION	RESULTS
<b>Strength &amp; Composition</b>			
Identity	Organoleptic	Conforming	PASS
Identity	HPLC/LCMS	Chemical Fingerprint	PASS
Total Cannabidiol (CBD) <sup>i</sup>	HPLC/LCMS	17.8 – 21.2 mg/g	21.27* mg/g
Total Tetrahydrocannabinol (THC) <sup>ii</sup>	HPLC/LCMS	NMT 0.30%	0.06%
Terpene assay <sup>iii</sup>	HS-GC/MS	n/e	4.3%
<b>Microbiological<sup>iv</sup></b>			
Total Plate Count	Petrifilm	NMT 1,000 cfu/g	PASS
Total Coliforms	Petrifilm	NMT 100 cfu/g	PASS
Total Yeast & Mold	Petrifilm	NMT 100 cfu/g	PASS
<i>E. coli</i>	qPCR	Absent	PASS
<i>Salmonella</i>	qPCR	Absent	PASS
<i>Listeria</i>	qPCR	Absent	PASS
<b>Mycotoxins</b>			
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
<b>Heavy Metals<sup>v</sup></b>			
Arsenic (As)	ICP/MS	NMT 2 ppm	PASS
Cadmium (Cd)	ICP/MS	NMT 2 ppm	PASS
Lead (Pb)	ICP/MS	NMT 2 ppm	PASS
Mercury (Hg)	ICP/MS	NMT 1 ppm	PASS

<sup>i</sup> Total CBD = CBD + (0.877\*CBDA) to account for loss of acid group during decarboxylation

<sup>ii</sup> Total THC = THC + (0.877\*THCa) to account for loss of acid group during decarboxylation

<sup>iii</sup> Sum of terpene assay (n=38)

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

<sup>v</sup> 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

NMT = Not More Than

MRL = Method Reporting Limit

\*Deviation Accepted



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BATCH/LOT: B0048

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TEST	METHOD	SPECIFICATION	RESULTS
Residual Solvents Multi-residue panel	GC-HS-FID	Below CCR Limits <sup>vi</sup>	PASS
Pesticides Multi-residue panel	LC-MS/MS	Below CCR Limits <sup>vii</sup>	PASS

David Cole  
Director of Quality

5/14/21

Date

<sup>vi</sup> Panel includes: Propane, Butanes, Methanol, Pentane, Ethanol, Acetone, Isopropyl Alcohol, Hexane, Ethyl Acetate, Benzene, Heptanes, Toluene, Xylenes, Ethyl Acetate.  
Individual limits: 6 CCR 1010-21

<sup>vii</sup> 67 residue panel: Individual limits: 6 CCR 1010-21



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FL License # CMTL-0003  
CLIA No. 10D1094068

# Certificate of Analysis

## Compliance Test

**STRAIGHT HEMP**  
5135 W 58TH AVE, UNIT 5  
ARVADA, CO 80002

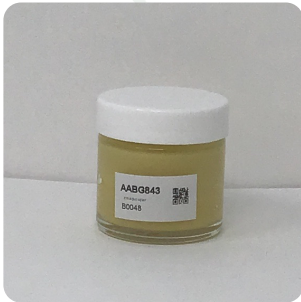
Batch # B0048  
Batch Date: 2021-04-27  
Extracted From: Hemp

Sampling Method: MSP 7.3.1 Test Reg  
State: Florida

Order # STR210427-010052  
Order Date: 2021-04-27  
Sample # AABG843

Sampling Date: 2021-04-28  
Lab Batch Date: 2021-04-28  
Completion Date: 2021-05-06

Initial Gross Weight: 85.782 g



Product Image

Potency Tested
 Terpenes Tested
 Heavy Metals Passed
 Mycotoxins Passed
 Pesticides Passed

Residual Solvents Passed
 Pathogenic Microbiology Passed
 Listeria Monocytogenes Passed
 Microbiology Petrifilm Tested

### Potency - 11

Specimen Weight: 89.470 mg

Analyte	Dilution (1:n)	LOD (%)	LOQ (%)	Result (mg/g)	(%)
CBD	10.000	0.000054	0.001	20.500	2.050
CBDA	10.000	0.00001	0.001	0.876	0.088
Delta-9 THC	10.000	0.000013	0.001	0.606	0.061
CBC	10.000	0.000018	0.001	0.407	0.041
CBG	10.000	0.000248	0.001	0.343	0.034
THCV	10.000	0.000007	0.001	<LOQ	<LOQ
Delta-8 THC	10.000	0.000026	0.001	<LOQ	<LOQ
CBN	10.000	0.000014	0.001	<LOQ	<LOQ
CBGA	10.000	0.00008	0.001	<LOQ	<LOQ
CBDV	10.000	0.000065	0.001	<LOQ	<LOQ
THCA-A	10.000	0.000032	0.001	<LOQ	<LOQ

### Tested (HPLC/LCMS)

### Potency Summary

Total THC	0.061%	Total CBD	2.127%
Total CBG	0.034%	Total CBN	None Detected
Other Cannabinoids	0.041%	Total Cannabinoids	2.262%

### Terpenes Summary

Analyte	Result (mg/ml)	(%)
Eucalyptol	12.675	1.268%
Linalool	4.682	0.468%
Hexahydrothymol	3.926	0.393%
alpha-Pinene	2.522	0.252%
Camphors	2.242	0.224%
Farnesene	2.047	0.205%
(R)-(+)-Limonene	1.984	0.198%
trans-Caryophyllene	1.701	0.17%
Terpineol	1.563	0.156%
Geranyl acetate	1.304	0.13%
Guaial	0.971	0.097%
Borneol	0.885	0.088%
3-Carene	0.882	0.088%
Gamma-Terpinene	0.835	0.084%
alpha-Bisabolol	0.826	0.083%
beta-Pinene	0.643	0.064%
Camphene	0.566	0.057%
Geranyl acetate	0.538	0.054%
beta-Myrcene	0.475	0.048%
alpha-Humulene	0.403	0.04%
Terpinolene	0.387	0.039%
alpha-Terpinene	0.317	0.032%
Ocimene	0.213	0.021%

**Total Terpenes: 4.259%**

Detailed Terpenes Analysis is on the following page

*Xueli Gao*  
Xueli Gao Lab Toxicologist  
Ph.D., DABT

*Aixia Sun*  
Aixia Sun Lab Director/Principal Scientist  
D.H.Sc., M.Sc., B.Sc., MT (AAB)



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State: Florida

Order # STR210427-010052  
Order Date: 2021-04-27  
Sample # AABG843

Sampling Date: 2021-04-28  
Lab Batch Date: 2021-04-28  
Completion Date: 2021-05-06

Initial Gross Weight: 85.782 g



## Terpenes - FL

Specimen Weight: 1953.180 mg

Tested  
(GC/GCMS)

Dilution Factor: 2500.000

Analyte	LOQ (%)	Result (mg/g)	(%)	Analyte	LOQ (%)	Result (mg/g)	(%)
Eucalyptol	0.02	12.675	1.268	Linalool	0.02	4.682	0.468
Hexahydrothymol	0.02	3.926	0.393	alpha-Pinene	0.02	2.522	0.252
Camphors	0.04	2.242	0.224	Farnesene	0.02	2.047	0.205
(R)-(+)-Limonene	0.02	1.984	0.198	trans-Caryophyllene	0.02	1.701	0.170
Terpineol	0.02	1.563	0.156	Geranyl acetate	0.02	1.304	0.130
Guaial	0.02	0.971	0.097	3-Carene	0.02	0.882	0.088
Borneol	0.04	0.885	0.088	Gamma-Terpinene	0.02	0.835	0.084
alpha-Bisabolol	0.02	0.826	0.083	beta-Pinene	0.02	0.643	0.064
Camphene	0.02	0.566	0.057	Geranyl acetate	0.02	0.538	0.054
beta-Myrcene	0.02	0.475	0.048	alpha-Humulene	0.02	0.403	0.040
Terpinolene	0.02	0.387	0.039	alpha-Terpinene	0.02	0.317	0.032
Ocimene	0.014	0.213	0.021	Sabinene	0.02	<LOQ	<LOQ
Sabinene Hydrate	0.02	<LOQ	<LOQ	trans-Nerolidol	0.02	<LOQ	<LOQ
Pulegone	0.02	<LOQ	<LOQ	(+)-Cedrol	0.02	<LOQ	<LOQ
Fenchyl Alcohol	0.02	<LOQ	<LOQ	Nerol	0.02	<LOQ	<LOQ
Isopulegol	0.02	<LOQ	<LOQ	Isoborneol	0.02	<LOQ	<LOQ
Geraniol	0.02	<LOQ	<LOQ	Fenchone	0.02	<LOQ	<LOQ
cis-Nerolidol	0.02	<LOQ	<LOQ	Caryophyllene oxide	0.02	<LOQ	<LOQ
alpha-Phellandrene	0.02	<LOQ	<LOQ	alpha-Cedrene	0.02	<LOQ	<LOQ
Valencene	0.02	<LOQ	<LOQ				

Total Terpenes: 4.259%

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State: Florida

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Order Date: 2021-04-27  
Sample # AABG843

Sampling Date: 2021-04-28  
Lab Batch Date: 2021-04-28  
Completion Date: 2021-05-06

Initial Gross Weight: 85.782 g

## H Heavy Metals

Specimen Weight: 246.800 mg

**Passed**  
(ICP-MS)

Dilution Factor: 2.000

Analyte	LOQ (ppb)	Action Level (ppb)	Result (ppb)	Analyte	LOQ (ppb)	Action Level (ppb)	Result (ppb)
Arsenic (As)	100	1500	<LOQ	Cadmium (Cd)	100	500	<LOQ
Lead (Pb)	100	500	<LOQ	Mercury (Hg)	100	3000	<LOQ

## Mycotoxins

Specimen Weight: 175.050 mg

**Passed**  
(LCMS)

Dilution Factor: 8.569

Analyte	LOQ (ppb)	Action Level (ppb)	Result (ppb)	Analyte	LOQ (ppb)	Action Level (ppb)	Result (ppb)
Aflatoxin B1	6	20	<LOQ	Aflatoxin B2	6	20	<LOQ
Aflatoxin G1	6	20	<LOQ	Aflatoxin G2	6	20	<LOQ
Ochratoxin A	12	20	<LOQ				

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Sample # AABG843

Sampling Date: 2021-04-28  
Lab Batch Date: 2021-04-28  
Completion Date: 2021-05-06

Initial Gross Weight: 85.782 g

**Pesticides FL V4** **Passed**  
(LCMS/GCMS)

Specimen Weight: 175.050 mg

Dilution Factor: 8.569

Analyte	LOQ (ppb)	Action Level (ppb)	Result (ppb)	Analyte	LOQ (ppb)	Action Level (ppb)	Result (ppb)
Abamectin	28.23	300	<LOQ	Acephate	30	3000	<LOQ
Acequinocyl	48	2000	<LOQ	Acetamiprid	30	3000	<LOQ
Aldicarb	30	100	<LOQ	Azoxystrobin	10	3000	<LOQ
Bifenazate	30	3000	<LOQ	Bifenthrin	30	500	<LOQ
Boscalid	10	3000	<LOQ	Captan	30	3000	<LOQ
Carbaryl	10	500	<LOQ	Carbofuran	10	100	<LOQ
Chlorantraniliprole	10	3000	<LOQ	Chlordane	10	100	<LOQ
Chlorfenapyr	30	100	<LOQ	Chlormequat Chloride	10	3000	<LOQ
Chlorpyrifos	30	100	<LOQ	Clofentazine	30	500	<LOQ
Coumaphos	48	100	<LOQ	Cyfluthrin	30	1000	<LOQ
Cypermethrin	30	1000	<LOQ	Daminozide	30	100	<LOQ
Diazinon	30	200	<LOQ	Dichlorvos	30	100	<LOQ
Dimethoate	30	100	<LOQ	Dimethomorph	48	3000	<LOQ
Ethoprophos	30	100	<LOQ	Etofenprox	30	100	<LOQ
Etoxazole	30	1500	<LOQ	Fenhexamid	10	3000	<LOQ
Fenoxycarb	30	100	<LOQ	Fenpyroximate	30	2000	<LOQ
Fipronil	30	100	<LOQ	Flonicamid	30	2000	<LOQ
Fludioxonil	48	3000	<LOQ	Hexythiazox	30	2000	<LOQ
Imazalil	30	100	<LOQ	Imidacloprid	30	3000	<LOQ
Kresoxim Methyl	30	1000	<LOQ	Malathion	30	2000	<LOQ
Metaxyl	10	3000	<LOQ	Methiocarb	30	100	<LOQ
Methomyl	30	100	<LOQ	methyl-Parathion	10	100	<LOQ
Mevinphos	10	100	<LOQ	Myclobutanil	30	3000	<LOQ
Naled	30	500	<LOQ	Oxamyl	30	500	<LOQ
Paclotrazol	30	100	<LOQ	Pentachloronitrobenzene	10	200	<LOQ
Permethrin	30	1000	<LOQ	Phosmet	30	200	<LOQ
Piperonylbutoxide	30	3000	<LOQ	Prallethrin	30	400	<LOQ
Propiconazole	30	1000	<LOQ	Propoxur	30	100	<LOQ
Pyrethrins	30	1000	<LOQ	Pyridaben	30	3000	<LOQ
Spinetoram	10	3000	<LOQ	Spinosad	30	3000	<LOQ
Spiromesifen	30	3000	<LOQ	Spirotetramat	30	3000	<LOQ
Spiroxamine	30	100	<LOQ	Tebuconazole	30	1000	<LOQ
Thiacloprid	30	100	<LOQ	Thiamethoxam	30	1000	<LOQ
Trifloxystrobin	30	3000	<LOQ				

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### Residual Solvents - FL (CBD) Passed (GCMS)

Specimen Weight: 9.200 mg

Dilution Factor: 1.000

Analyte	LOQ (ppm)	Action Level (ppm)	Result (ppm)	Analyte	LOQ (ppm)	Action Level (ppm)	Result (ppm)
1,1-Dichloroethene	0.16	8	<LOQ	1,2-Dichloroethane	0.04	5	<LOQ
Acetone	2.08	5000	<LOQ	Acetonitrile	1.17	410	<LOQ
Benzene	0.02	2	<LOQ	Butanes	2.5	2000	<LOQ
Chloroform	0.04	60	<LOQ	Ethanol	2.78	5000	<LOQ
Ethyl Acetate	1.11	5000	<LOQ	Ethyl Ether	1.39	5000	<LOQ
Ethylene Oxide	0.1	5	<LOQ	Heptane	1.39	5000	<LOQ
Hexane	1.17	290	<LOQ	Isopropyl alcohol	1.39	500	<LOQ
Methanol	0.69	3000	<LOQ	Methylene chloride	2.43	600	<LOQ
Pentane	2.08	5000	<LOQ	Propane	5.83	2100	<LOQ
Toluene	2.92	890	<LOQ	Total Xylenes	2.92	2170	<LOQ
Trichloroethylene	0.49	80	<LOQ				

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### Pathogenic Microbiology SAE (MicroArray) Passed (Micro Array)

Specimen Weight: 1046.490 mg

Dilution Factor: 1.000

Analyte	Result (cfu/g)	Analyte	Result (cfu/g)
Aspergillus flavus	Absence in 1g	Aspergillus fumigatus	Absence in 1g
Aspergillus niger	Absence in 1g	Aspergillus terreus	Absence in 1g
Salmonella	Absence in 1g	STEC E. Coli	Absence in 1g

### Listeria Monocytogenes Passed (qPCR)

Specimen Weight: 1007.200 mg

Dilution Factor: 1.000

Analyte	Action Level (cfu/g)	Result
Listeria Monocytogenes	1	Absence in 1g

*Xueli Gao*  
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Aixia Sun Lab Director/Principal Scientist  
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Definitions and Abbreviations used in this report: \*Total CBD = CBD + (CBD-A \* 0.877), \*Total THC = THCA-A \* 0.877 + Delta 9 THC, \*CBG Total = (CBGA \* 0.877) + CBG, \*CBN Total = (CBNA \* 0.877) + CBN, \*Other Cannabinoids Total = CBC + CBDV + THCV + THCV-A, \*Total Detected Cannabinoids = CBD Total + CBG Total + CBN Total + THC Total + CBC + CBDV + THCV + THCV-A, \*Analyte Details above show the Dry Weight Concentrations unless specified as 12% moisture concentration. (mg/ml) = Milligrams per Milliliter, LOQ = Limit of Quantitation, LOD = Limit of Detection, Dilution = Dilution Factor (ppb) = Parts per Billion, (%) = Percent, (cfu/g) = Colony Forming Unit per Gram (cfu/g) = Colony Forming Unit per Gram, , LOD = Limit of Detection, (µg/g) = Microgram per Gram (ppm) = Parts per Million, (ppm) = (µg/g), (aw) = aw (area ratio) = Area Ratio, (mg/Kg) = Milligram per Kilogram, \*Measurement of Uncertainty = +/- 5%



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License No. 800025015  
FL License # CMTL-0003  
CLIA No. 10D1094068

## Certificate of Analysis

Compliance Test

**STRAIGHT HEMP**  
5135 W 58TH AVE, UNIT 5  
ARVADA, CO 80002

Batch # B0048  
Batch Date: 2021-04-27  
Extracted From: Hemp

Sampling Method: MSP 7.3.1 Test Reg  
State: Florida

Order # STR210427-010052  
Order Date: 2021-04-27  
Sample # AABG843

Sampling Date: 2021-04-28  
Lab Batch Date: 2021-04-28  
Completion Date: 2021-05-06

Initial Gross Weight: 85.782 g



### Microbiology (Petrifilm/Plating)

Specimen Weight: 991.000 mg

**Tested**  
(Petrifilm)

Dilution Factor: 1.000

Analyte	LOQ (cfu/g)	Result (cfu/g)	Analyte	LOQ (cfu/g)	Result (cfu/g)
Aerobic Bacteria	10	<100	E. Coli / Coliform	10	<100
Yeast/Mold	10	<100			

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