



# STRAIGHT HEMP

## CERTIFICATE OF ANALYSIS

PRODUCT: CBD Balm  
BATCH/LOT: B0047

PRODUCTION DATE: 12/2020  
BEST BY/EXP DATE: 12/2022

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	20.29 mg/g
Total Tetrahydrocannabinol (THC) <sup>ii</sup>	HPLC/LCMS	NMT 0.30%	0.18%
Terpene assay <sup>iii</sup>	HS-GC/MS	n/e	4.8%
<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>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
<b>Residual Solvents</b>			
Multi-residue panel	GC-HS-FID	Below CCR Limits <sup>vi</sup>	PASS
<b>Pesticides</b>			
Multi-residue panel	LC-MS/MS	Below CCR Limits <sup>vii</sup>	PASS

  
David Cole  
Director of Quality

1/25/21  
Date

<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 1 CCR 212-3

<sup>vi</sup> Panel includes: Propane, Butanes, Methanol, Pentane, Ethanol, Acetone, Isopropyl Alcohol, Hexane, Ethyl Acetate, Benzene, Heptanes, Toluene, Xylenes, Ethyl Acetate.

Individual limits: 1 CCR 212-3

<sup>vii</sup> 67 residue panel: Individual limits: 1 CCR 212-3

NMT = Not More Than  
MRL = Method Reporting Limit



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## Compliance Test

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

Batch # B0047  
Batch Date: 2020-12-22  
Extracted From: Hemp

Sampling Method: MSP 7.3.1 Test Reg  
State: Florida

Order # STR201229-020020  
Order Date: 2020-12-29  
Sample # AAAW210

Sampling Date: 2020-12-30  
Lab Batch Date: 2020-12-30  
Completion Date: 2021-01-11

Initial Gross Weight: 87.450 g



Product Image

- Potency Tested**
- Terpenes Tested**
- Heavy Metals Passed**
- Mycotoxins Passed**
- Pesticides Passed**
- Residual Solvents Passed**
- Listeria Monocytogenes Passed**
- Pathogenic Passed**

### Potency - 11

Specimen Weight: 106.890 mg

Analyte	Dilution (1:n)	LOD (%)	LOQ (%)	Result (mg/g)	(%)
CBD	10.000	0.000054	0.001	19.820	1.982
Delta-9 THC	10.000	0.000013	0.001	1.777	0.178
CBDA	10.000	0.00001	0.001	0.535	0.053
CBC	10.000	0.000018	0.001	0.397	0.040
THCV	10.000	0.000007	0.001		<LOQ
Delta-8 THC	10.000	0.000026	0.001		<LOQ
CBN	10.000	0.000014	0.001		<LOQ
CBGA	10.000	0.000008	0.001		<LOQ
CBG	10.000	0.000248	0.001		<LOQ
CBDV	10.000	0.000065	0.001		<LOQ
THCA-A	10.000	0.000032	0.001		<LOQ

### Tested (HPLC/LCMS)

### Potency Summary

<b>Total CBD</b> 2.029%	<b>Total THC</b> 0.178%
<b>Total CBG</b> None Detected	<b>Total CBN</b> None Detected
<b>Other Cannabinoids</b> 0.040%	<b>Total Cannabinoids</b> 2.246%

### Terpenes Summary

Analyte	Result (mg/ml)	(%)
Eucalyptol	13.720	1.372%
Borneol	5.000	0.5%
Camphors	4.110	0.411%
(R)-(+)-Limonene	3.310	0.331%
Hexahydrothymol	3.220	0.322%
Linalool	2.970	0.297%
alpha-Pinene	2.900	0.29%
Sabinene Hydrate	2.510	0.251%
Terpineol	1.600	0.16%
Pulegone	1.590	0.159%
Geranyl acetate	1.290	0.129%
Gamma-Terpinene	1.280	0.128%
beta-Myrcene	1.240	0.124%
trans-Caryophyllene	1.000	0.1%
3-Carene	0.940	0.094%
trans-beta-Ocimene	0.690	0.069%

**Total Terpenes: 4.806%**

Detailed Terpene Analysis is on the following page

*Handwritten signature: Aixa Sun*



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Sampling Method: MSP 7.3.1 Test Reg  
State: Florida

Order # STR201229-020020  
Order Date: 2020-12-29  
Sample # AAAW210

Sampling Date: 2020-12-30  
Lab Batch Date: 2020-12-30  
Completion Date: 2021-01-11

Initial Gross Weight: 87.450 g



### Terpenes - FL

Specimen Weight: 1.800 mg

Tested  
(GC)

Dilution Factor: 1.000

Analyte	LOQ (%)	Result (mg/g)	(%)	Analyte	LOQ (%)	Result (mg/g)	(%)
Eucalyptol	0.02	13.720	1.372	Borneol	0.04	5.000	0.500
Camphors	0.04	4.110	0.411	(R)-(+)-Limonene	0.02	3.310	0.331
Hexahydrothymol	0.02	3.220	0.322	Linalool	0.02	2.970	0.297
alpha-Pinene	0.02	2.900	0.290	Sabinene Hydrate	0.02	2.510	0.251
Terpineol	0.02	1.600	0.160	Pulegone	0.02	1.590	0.159
Geranyl acetate	0.02	1.290	0.129	Gamma-Terpinene	0.02	1.280	0.128
beta-Myrcene	0.02	1.240	0.124	trans-Caryophyllene	0.02	1.000	0.100
3-Carene	0.02	0.940	0.094	Ocimene	0.014	0.690	0.069
Sabinene	0.02	<LOQ		Terpinolene	0.02	<LOQ	
Nerol	0.02	<LOQ		trans-Nerolidol	0.02	<LOQ	
Isopulegol	0.02	<LOQ		Isoborneol	0.02	<LOQ	
(+)-Cedrol	0.02	<LOQ		Fenchone	0.02	<LOQ	
Guaiol	0.02	<LOQ		Geraniol	0.02	<LOQ	
Fenchyl Alcohol	0.02	<LOQ		Farnesene	0.02	<LOQ	
cis-Nerolidol	0.02	<LOQ		Caryophyllene oxide	0.02	<LOQ	
Camphene	0.02	<LOQ		beta-Pinene	0.02	<LOQ	
alpha-Terpinene	0.02	<LOQ		alpha-Phellandrene	0.02	<LOQ	
alpha-Humulene	0.02	<LOQ		alpha-Cedrene	0.02	<LOQ	
alpha-Bisabolol	0.02	<LOQ		Valencene	0.02	<LOQ	

**Total Terpenes: 4.806%**

Xueli Gao Lab Toxicologist  
Ph.D., DABT

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



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### H Heavy Metals

Specimen Weight: 250.290 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
Total Contaminant Load (TCL) <b>None Detected</b>							

### Mycotoxins

Specimen Weight: 171.020 mg

**Passed**  
(LCMS)

Dilution Factor: 8.771

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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*Aixia Sun*  
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Scientist  
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### Pesticides FL V4 (Non-Inhalable)

Specimen Weight: 171.020 mg

**Passed**  
(LCMS/GCMS)

Dilution Factor: 8.771

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	Clofentezine	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	Fonicamid	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
Metalaxyl	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
Pacllobutrazol	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	Total Contaminant Load (TCL)	None Detected		

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

*Aixia Sun*  
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D.H.Sc., M.Sc., B.Sc., MT (AAB)  
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Completion Date: 2021-01-11

Initial Gross Weight: 87.450 g

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

Specimen Weight: 119.800 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				

### Listeria Monocytogenes Passed (qPCR)

Specimen Weight: 998.600 mg

Dilution Factor: 1.000

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

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

*Aixia Sun*  
Aixia Sun Lab Director/Principal Scientist  
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Sample # AAAW210

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Completion Date: 2021-01-11

Initial Gross Weight: 87.450 g



### Pathogenic SAE (qPCR)

Specimen Weight: 265.120 mg

**Passed**  
(qPCR)

Dilution Factor: 1.000

Analyte	Action Level (cfu/g)	Result (cfu/g)	Analyte	Action Level (cfu/g)	Result (cfu/g)
Aspergillus (Flavus, Fumigatus, Niger, Terreus)	1	Absence in 1g	E.Coli	1	Absence in 1g
			Salmonella	1	Absence in 1g

*Xueli Gao*

*Aixia Sun*

Xueli Gao  
Ph.D., DABT  
Lab Toxicologist

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



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R&D

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Batch # B0047  
Batch Date: 2020-12-22  
Extracted From: Hemp

Test Reg State: Florida

Order # STR210120-010041  
Order Date: 2021-01-20  
Sample # AAAX651

Sampling Date: 2021-01-20  
Lab Batch Date: 2021-01-20  
Completion Date: 2021-01-22

Initial Gross Weight: 1.000 g



Microbiology Petrifilm  
Tested

*Xueli Gao*      *Aixia Sun*

Xueli Gao      Lab Toxicologist  
Ph.D., DABT

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



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



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# Certificate of Analysis

R&D

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

Batch # B0047  
Batch Date: 2020-12-22  
Extracted From: Hemp

Test Reg State: Florida

Order # STR210120-010041  
Order Date: 2021-01-20  
Sample # AAAX651

Sampling Date: 2021-01-20  
Lab Batch Date: 2021-01-20  
Completion Date: 2021-01-22

Initial Gross Weight: 1.000 g



## Microbiology (Petrifilm/Plating)

**Tested**  
(Petrifilm)

Specimen Weight: 1005.140 mg

Dilution Factor: 100.000

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			

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

*Aixia Sun*  
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Lab Director/Principal Scientist  
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