




STRAIGHT HEMP

CERTIFICATE OF ANALYSIS

PRODUCT: CBD Balm
BATCH/LOT: B0046

PRODUCTION DATE: 10/2020
BEST BY/EXP DATE: 10/2022

TEST	METHOD	SPECIFICATION	RESULTS
Strength & Composition			
Identity	Organoleptic	Conforming	PASS
Identity	UPLC/UV	Chemical Fingerprint	PASS
Total Cannabidiol (CBD) ⁱ	UPLC/UV	17.8 – 21.2 mg/g	19.37 mg/g
Total Tetrahydrocannabinol (THC) ⁱⁱ	UPLC/UV	NMT 0.30%	0.18%
Terpene assay ⁱⁱⁱ	HS-GC/MS	n/e	4.7%
Microbiological^{iv}			
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
Heavy Metals^v			
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
Residual Solvents			
Multi-residue panel	GC-HS-FID	Below CCR Limits ^{vi}	PASS
Pesticides			
Multi-residue panel	LC-MS/MS	Below CCR Limits ^{vii}	PASS


David Cole
Director of Quality

12/21/20
Date

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

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 1 CCR 212-3

^{vi} 14 solvent panel: Propane, Iso-Butane, N-Butane, Methanol, Pentane, Ethanol, Acetone, Isopropyl Alcohol, Hexane, Ethyl Acetate, Benzene, Heptanes, Toluene, Xylenes.

Individual limits: 1 CCR 212-3

^{vii} 68 residue panel: Individual limits: 1 CCR 212-3

NMT = Not More Than
MRL = Method Reporting Limit

Order #: STR201208-010002 Order Date: 2020-12-08 Collection Date: 2020-12-09 Report Date: 2020-12-15

Batch #: B0046
Sample #: AAAU780
Specimen Type: CBD/HEMP Derivative Products (External Use)
Extracted From: B0046
Description: CBD Balm

Initial Gross Weight: 37.188 g
Specimen Weight: 186.75 mg
Number of Units: 1
Method: SOP-3



Potency Tested Pesticides Passed



The photos on this report are of a sample collected by the lab and may vary from the final packaging.

Total CBD 1.937%	Total THC 0.182%	Total CBG 0.030%
Total CBN Not Detected	Other Cannabinoids 0.061%	Total Cannabinoids 2.210%

Potency - 11 (Tested)

(HPLC/LCMS)

Analyte	Result (mg/g)	(%)	LOQ (%)	Analyte	Result (mg/g)	(%)	LOQ (%)	Analyte	Result (mg/g)	(%)	LOQ (%)
CBC	0.310	0.031	0.001	CBD	19.000	1.900	0.001	CBDA	0.420	0.042	0.001
CBDV	0.300	0.030	0.001	CBG	0.300	0.030	0.001	CBGA	<LOQ		0.001
CBN	<LOQ		0.001	Delta-8 THC	<LOQ		0.001	Delta-9 THC	1.820	0.182	0.001
THCA-A	<LOQ		0.001	THCV	<LOQ		0.001	Total CBD	19.368	1.937	0.001
Total THC	1.820	0.182	0.001								

*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 (mg/g) = Milligram per Gram, , LOQ = Limit of Quantitation, , LOD = Limit of Detection , *Measurement of Uncertainty = +/- 5%

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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CLIA No. 10D1094068

Order #: STR201208-010002 **Order Date:** 2020-12-08 **Collection Date:** 2020-12-09 **Report Date:** 2020-12-15

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Description: CBD Balm

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Specimen Weight: 186.75 mg
Number of Units: 1
Method: SOP-3



Pesticides FL V4 (Non-Inhalable) (Passed)

(LCMS/API/GCMS)

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

(ppb) = Parts per Billion, (ppb) = (µg/kg), , LOQ = Limit of Quantitation

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Gobi Hemp

Terpene Report - Certificate of Analysis



Manifest: 2011300008
Sample Id: 1A-GHEMP-2011300008-0001
Sample Name: CBD Balm B0046
Sample Type: Concentrate
Client Id: CID-00281
Client: Straight Hemp
Address: 5135 W 58th Ave Unit 5, Arvada, CO 80002

Test Performed: Chemistry Lab
Report No: T-2011300008-V1
Receive Date: 2020-11-30
Test Date: 2020-12-02
Report Date: 2020-12-03
Sample Condition: Good
Method Reference: GH-OP-14

Total Terpenes 4.70%

Terpene	Percent
Alpha-Pinene	0.5487
Camphene	0.1079
Beta-Pinene	0.1006
Beta-Myrcene	0.1049
Delta-3-Carene	0.1408
Alpha-Terpinene	0.0663
Limonene	0.4101
Alpha-Ocimene	0.1670
Eucalyptol	1.9542
Beta-Ocimene	ND
Gamma-Terpinene	0.1734

ND - not detected; T - trace; ULOQ - upper limit of quantitation

Terpene	Percent
Terpinolene	0.0615
Linalool	0.3138
(-)-Isopulegol	0.4702
Geraniol	ND
Beta-Caryophyllene	0.0838
Alpha-Humulene	ND
cis-Nerolidol	ND
trans-Nerolidol	ND
(-)-Guaiol	ND
(-)-Caryophyllene Oxide	ND
Alpha-Bisabolol	ND

ND - not detected; T - trace; ULOQ - upper limit of quantitation

Jon Person Client Relations Manager

2020-12-03

Date

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Gobi Hemp
• 3940 Youngfield St. •
• Wheat Ridge CO 80033 •
• (303) 955-4934 •



Manifest: 2011300008
Sample Type: Concentrate
Test Performed: Microbial Lab
Client Id: CID-00281
Client: Straight Hemp
Address: 5135 W 58th Ave Unit 5, Arvada, CO 80002

Report No: M-2011300008-V1
Receive Date: 2020-11-30
Test Date: 2020-11-30
Report Date: 2020-12-04
Sample Condition: Good
Method Reference: MBH-OP-02, MBH-OP-03,
MBH-OP-05 , MBH-OP-10,
MBH-OP-11

Scope

Contaminant testing for the identified pathogens *Salmonella spp.* and *Shiga Toxin Virulence Genes, O26,O45, O103, O111, O121, O145 and O157:H7 serogroups of Escherichia coli (STEC)* was performed through Polymerase Chain Reaction (PCR) presumptive experimentation, and confirmed through cultural methodology where applicable. Results for *Salmonella spp.* and STEC are represented as a negative or positive determination, a negative result indicating no detection of the respective contaminant.

Total Yeast and Mold Count (TYMC)/Total Aerobic Count(TAC)/Total Coliform Count (TCC) were determined through 3M™ Petrifilm™ plating technology. The TYMC/TAC/TCC is represented as a count in colony forming units per gram (cfu/g).



Astha Gupta Laboratory Director

2020-12-04

Date

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Sample Type: Concentrate
Test Performed: Microbial Lab
Client Id: CID-00281
Client: Straight Hemp
Address: 5135 W 58th Ave Unit 5, Arvada, CO 80002

Report No: M-2011300008-V1
Receive Date: 2020-11-30
Test Date: 2020-11-30
Report Date: 2020-12-04
Sample Condition: Good
Method Reference: MBH-OP-02, MBH-OP-03,
MBH-OP-05, MBH-OP-10,
MBH-OP-11

Sample Id	Product	Salmonella spp.	STEC	TYMC (cfu/g)	TAC (cfu/g)	TCC (cfu/g)
1A-GHEMP-2011300008-0001	CBD Balm B0046	Negative	Negative	<100	<100	<100

STEC - shiga toxin-producing *Escherichia coli*; TYMC - total yeast and mold count;
TAC - Total Aerobic Count; TCC - Total Coliform Count

Laboratory Comments:



Astha Gupta Laboratory Director

2020-12-04

Date

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Gobi Hemp

Analytical Report - Certificate of Analysis



Manifest: 2011300008
Sample Id: 1A-GHEMP-2011300008-0001
Sample Name: CBD Balm B0046
Sample Type: Concentrate
Client Id: CID-00281
Client: Straight Hemp
Address: 5135 W 58th Ave Unit 5, Arvada, CO 80002

Test Performed: Chemistry Lab
Intended Use: Inhaled or Audited Product
Report No: MT-2011300008-V1
Receive Date: 2020-11-30
Test Date: 2020-12-01
Report Date: 2020-12-02
Sample Condition: Good
Method Reference: GH-OP-17

Scope

Arsenic, Cadmium, Lead and Mercury were determined by an Inductive Coupled Plasma Mass Spectrometer (ICP-MS) using an in-house developed method.

Metals	Sample Reporting Limit (ppm)	Parts Per Million (ppm)
Arsenic	0.100	ND
Cadmium	0.100	ND
Lead	0.100	ND
Mercury	0.100	ND

ND - not detected; T - trace; ULOQ - upper limit of quantitation

Laboratory Comments:

Jon Person Client Relations Manager

2020-12-02

Date

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Gobi Hemp

Analytical Report - Certificate of Analysis



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Sample Id: 1A-GHEMP-2011300008-0001
Sample Name: CBD Balm B0046
Sample Type: Concentrate
Client Id: CID-00281
Client: Straight Hemp
Address: 5135 W 58th Ave Unit 5, Arvada, CO 80002

Test Performed: Chemistry Lab
Report No: R-2011300008-V1
Receive Date: 2020-11-30
Test Date: 2020-12-01
Report Date: 2020-12-02
Sample Condition: Good
Method Reference: GH-OP-08

Scope

The content of fifteen residual solvents was determined by an in-house developed method for Headspace-Gas Chromatography with Flame Ionization Detection.

Solvents	Parts Per Million (ppm)
Propane	ND
Iso-Butane	ND
N-Butane	ND
Methanol	ND
Pentane	ND
Ethanol	ND
Acetone	T
IPA	ND
Hexane	ND
Ethyl Acetate	ND
Benzene	ND
Heptane	ND
Toluene	ND
Xylenes	ND

ND - not detected; T - trace; ULOQ - upper limit of quantitation

Laboratory Comments:

2020-12-02

Jon Person Client Relations Manager

Date

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