



Certificate of Analysis

Sample Information

CTLA ID: 10395
 Date Received: 8/28/2019
 Sample Name: 25 mg/ml Tincture
 Lot Number:
 Customer: Rocky Mountain Beauty Supply

Analysis	Method	MDL Specification	Result	Units
Cannabinoid Concentration				
Total Cannabidiol (CBD)	HPLC	0.216 Report	26.480	mg/ml
Total Tetrahydrocannabinol (THC)	HPLC	0.023 Report	0.075	%
CBD	HPLC	0.216 Report	26.480	mg/ml
CBDA	HPLC	0.216 Report	ND	mg/ml
Δ9-THC	HPLC	0.216 Report	0.719	mg/ml
THCA	HPLC	0.216 Report	ND	mg/ml
Δ8-THC	HPLC	0.216 Report	ND	mg/ml
THCV	HPLC	0.216 Report	ND	mg/ml
CBDV	HPLC	0.216 Report	ND	mg/ml
CBDVA	HPLC	0.216 Report	ND	mg/ml
CBGA	HPLC	0.216 Report	ND	mg/ml
CBG	HPLC	0.216 Report	ND	mg/ml
CBN	HPLC	0.216 Report	ND	mg/ml
CBC	HPLC	0.216 Report	0.750	mg/ml
CBL	HPLC	0.216 Report	ND	mg/ml

ND = None Detected

Total CBD = CBD + (CBDA*0.877)

Total THC = Δ9-THC + Δ8-THC

1 ml = 0.96 g

Density = 0.964 g/ml

Total Cannabinoids = 27.949 mg/ml


 Quality Manager

Specifications provided by the Customer. Results with an asterisk (*) denote Specifications should be reviewed by the Customer. This Certificate of Analysis represents data for the sample submitted and does not constitute a guarantee of quality for the entire product from which it was taken. These results are provided for the benefit of the Customer. MDL = Method Detection Limit.

CTLA ID: 10396
 Date Received: 8/27/2019
 Sample Name: 50 mg/ml Tincture
 Lot Number:
 Customer: Rocky Mountain Beauty Supply

Analysis	Method	MDL Specification	Result	Units
Cannabinoid Concentration				
Total Cannabidiol (CBD)	HPLC	0.195 Report	46.743	mg/ml
Total Tetrahydrocannabinol (THC)	HPLC	0.021 Report	0.134	%
CBD	HPLC	0.195 Report	46.743	mg/ml
CBDA	HPLC	0.195 Report	ND	mg/ml
Δ9-THC	HPLC	0.195 Report	1.256	mg/ml
THCA	HPLC	0.195 Report	ND	mg/ml
Δ8-THC	HPLC	0.195 Report	ND	mg/ml
THCV	HPLC	0.195 Report	ND	mg/ml
CBDV	HPLC	0.195 Report	0.252	mg/ml
CBDVA	HPLC	0.195 Report	ND	mg/ml
CBGA	HPLC	0.195 Report	ND	mg/ml
CBG	HPLC	0.195 Report	0.293	mg/ml
CBN	HPLC	0.195 Report	ND	mg/ml
CBC	HPLC	0.195 Report	1.514	mg/ml
CBL	HPLC	0.195 Report	ND	mg/ml

ND = None Detected

Total CBD = CBD + (CBDA*0.877)

Total THC = Δ9-THC + Δ8-THC

1 ml = 0.94 g

Density = 0.938 g/ml

Total Cannabinoids = 50.058 mg/ml


 Quality Manager

Specifications provided by the Customer. Results with an asterisk (*) denote Specifications should be reviewed by the Customer. This Certificate of Analysis represents data for the sample submitted and does not constitute a guarantee of quality for the entire product from which it was taken. These results are provided for the benefit of the Customer. MDL = Method Detection Limit.

HPLC Analysis Report

Cannabinoid Profile Certificate of Analysis

Client: Rocky Mountain Hemp Date Received: 3-13-2020
 Sample Name: 100mg/mL Tincture Date Tested: 3-13-2020
 Sample Matrix: Hemp Tincture APRC #: RMH200313E
 Sample Lot: 1

ID#	Cannabinoid	Ret. Time	Conc. (µg/mL)	% (w/w)	mg/g
1	Cannabidivarin (CBDV)	2.277	1.233	0.01	0.11
2	Cannabidiolic acid (CBDA)	ND	ND	N/A	N/A
3	Cannabigerolic acid (CBGA)	<LOQ	<LOQ	N/A	N/A
4	Cannabigerol (CBG)	3.187	1.493	0.01	0.13
5	Cannabidiol (CBD)	3.358	1170.083	10.42	104.19
6	Tetrahydrocannabivarin (THCV)	ND	ND	N/A	N/A
7	Cannabinol (CBN)	4.942	0.524	0.00	0.05
8	Δ9-Tetrahydrocannabinol (Δ9-THC)	6.194	3.865	0.03	0.34
9	Δ8-Tetrahydrocannabinol (Δ8-THC)	<LOQ	<LOQ	N/A	N/A
10	Cannabichromene (CBC)	7.764	3.047	0.03	0.27
11	Δ9-Tetrahydrocannabinolic acid (THCA-A)	ND	ND	N/A	N/A

		%	mg/g
Analyzed by: <u>A. Anderson</u>	Total Cannabinoids	10.51	105.10
	Total THC [†]	0.03	0.34
Reviewed by: <u>C. Wiscombe</u>	Total CBD [‡]	10.42	104.19

[†] Total THC is calculated by Δ9-THC +(THCA-A*0.877)

[‡] Total CBD is calculated by CBD + (CBDA*0.877)

Notes:

Hemp Oil

Company Name: Utah Cannabis Company Sample Received: 10/22/220
Company Lot Number: N/A Release Date: 10/28/2020
Sample Matrix: Distillate APRC Lot Number: UCC201022A



Total THC 0.27 %	Total CBD 43.01 %	Cannabinoids 61.79 %
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Pesticides Tested	Microbial Tested	Residual Solvents Tested	Heavy Metals Tested	Terpene Analysis Tested
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Prepared By: Cierra Gunn

Reviewed By: Alec Anderson

Quantitative Terpene Analysis Report

Certificate of Analysis

Hemp Oil

Company Name: Utah Cannabis Company Sample Received: 10-22-2020
 Company Lot Number: NA APRC Lot Number: UCC201022A
 Sample Matrix: Distillate Release Date: 10-27-2020

Compound	Total % (w/w)	Total (mg/g)	Compound	Total % (w/w)	Total (mg/g)
α-Pinene	ND	ND	Terpinolene	ND	ND
Camphene	ND	ND	Linolool	ND	ND
β-Pinene	ND	ND	Isopulegol	ND	ND
β-Myrcene	<LOQ	<LOQ	Geraniol	ND	ND
Δ-3-Carene	ND	ND	β-Caryophyllene	ND	ND
α-Terpinene	ND	ND	α-Humulene	ND	ND
p-Cymene	ND	ND	cis-Nerolidol	ND	ND
Limonene	ND	ND	trans-Nerolidol	ND	ND
α-OCimene	ND	ND	Caryophyllene oxide	ND	ND
Eucalyptol	ND	ND	Guaiol	<LOQ	<LOQ
β-OCimene	ND	ND	α-Bisabolol	<LOQ	<LOQ
γ-Terpinene	ND	ND	Total Terpenes	ND	ND

Prepared By: A. Anderson

Reviewed By: C. Gunn

Residual Solvents Analysis Report

Certificate of Analysis

Hemp Oil

Company Name: Utah Cannabis Company Sample Received: 10-22-2020
 Company Lot Number: NA APRC Lot Number: UCC201022A
 Sample Matrix: Distillate Release Date: 10-27-2020

Analyte	Limit (µg/g) [†]	Concentration (µg/g)	Disposition
1,2 Dimethoxyethane	100	ND	Pass
1,4 Dioxane	380	ND	Pass
1-Butanol	5000	ND	Pass
1-Pentanol	5000	ND	Pass
1-Propanol	5000	ND	Pass
2-Butanol	5000	ND	Pass
2-Butanone	5000	ND	Pass
2-Ethoxyethanol	160	ND	Pass
2-methylbutane	5000	ND	Pass
2-Propanol (Isopropyl Alcohol)	5000	ND	Pass
Acetone	5000	ND	Pass
Acetonitrile	410	ND	Pass
Benzene	2	ND	Pass
Butane	5000	ND	Pass
Cumene	70	ND	Pass
Cyclohexane	3880	ND	Pass
Dichloromethane (Methylene Chloride)	600	ND	Pass
2,2-dimethylbutane	290	ND	Pass
2,3-dimethylbutane	290	ND	Pass
1,2-dimethylbenzene (<i>o</i> -Xylene)	See Xylenes	ND	Pass
1,3-dimethylbenzene (<i>m</i> -Xylene)	See Xylenes	ND	Pass
1,4-dimethylbenzene (<i>p</i> -Xylene)	See Xylenes	ND	Pass
Dimethyl Sulfoxide (DMSO)	5000	ND	Pass
Ethanol	5000	ND	Pass

Analyte	Limit (µg/g) [†]	Concentration (µg/g)	Disposition
Ethyl Acetate	5000	ND	Pass
Ethylbenzene	See Xylenes	ND	Pass
Ethyl ether	5000	ND	Pass
Ethylene glycol	620	ND	Pass
Ethylene Oxide	50	ND	Pass
Heptane	5000	ND	Pass
Hexane	290	ND	Pass
Isopropyl acetate	5000	ND	Pass
Methanol	3000	ND	Pass
Methylpropane	5000	ND	Pass
2-Methylpentane	290	ND	Pass
3-Methylpentane	290	ND	Pass
N,N-dimethylacetamide	1090	ND	Pass
N,N-dimethylformamide	880	ND	Pass
Pentane	5000	ND	Pass
Propane	5000	ND	Pass
Pyridine	100	ND	Pass
Sulfolane	160	ND	Pass
Tetrahydrofuran	720	ND	Pass
Toluene	890	ND	Pass
Xylenes [‡]	2170	ND	Pass

[†] Per Utah state code 4-41a-701(3) Section R68-29-6

[‡] Total Xylenes is a combination of the following: *o*-Xylene, *m*-Xylene, *p*-Xylene, and Ethylbenzene

Overall Disposition: Pass

Prepared By: A. Anderson

Reviewed By: C. Gunn

HPLC Analysis Report

Cannabinoid Profile Certificate of Analysis

Client: Utah Cannabis Company Date Received: 10-22-2020
 Sample Name: Hemp Oil Date Tested: 10-22-2020
 Sample Matrix: Distillate APRC #: UCC201022A
 Sample Lot: N/A

ID#	Cannabinoid	Ret. Time	Conc. (µg/mL)	% (w/w)	mg/g
1	Cannabidivarin (CBDV)	2.168	199.333	1.71	17.12
2	Cannabidiolic acid (CBDA)	INT	INT	N/A	N/A
3	Cannabigerolic acid (CBGA)	INT	INT	N/A	N/A
4	Cannabigerol (CBG)	3.012	241.917	2.08	20.78
5	Cannabidiol (CBD)	3.179	5006.583	43.01	430.12
6	Tetrahydrocannabivarin (THCV)	3.491	6.242	0.05	0.54
7	Cannabinol (CBN)	4.674	663.083	5.70	56.97
8	Δ9-Tetrahydrocannabinol (Δ9-THC)	5.936	30.985	0.27	2.66
9	Δ8-Tetrahydrocannabinol (Δ8-THC)	6.167	33.825	0.29	2.91
10	Cannabichromene (CBC)	7.358	1010.667	8.68	86.83
11	Δ9-Tetrahydrocannabinolic acid (THCA-A)	INT	INT	N/A	N/A

		%	mg/g
Analyzed by:	<u>A. Anderson</u>	Total Cannabinoids	61.79
		Total THC [†]	0.27
Reviewed by:	<u>C. Gunn</u>	Total CBD [‡]	43.01
			430.12

[†] Total THC is calculated by Δ9-THC +(THCA-A*0.877)

[‡] Total CBD is calculated by CBD + (CBDA*0.877)

Notes: CBDA, CBGA, and THCA-A could not be determined due to interfering substances.

PCR-Microarray Analysis Report

Microbial Certificate of Analysis

Client: Utah Cannabis Company Date Received: 10-22-2020
 Sample Name: Hemp Oil Date Tested: 10-22-2020
 Sample Matrix: Distillate APRC #: UCC201022A
 Sample Lot: N/A

Total Counts			
Group	Result	Specification [†]	Disposition
Total Aerobic Bacteria	< 100	Report Only	Tested
Total Bile Tolerant Gram-Negative Bacteria	< 100	Report Only	Tested
Total Enterobacteria/Coliforms	< 100	Report Only	Tested
Total Yeast and Mold	< 100	Report Only	Tested

Specific Organism Identification			
Organism	Result	Specification [†]	Disposition
<i>Escherichia coli</i> – Non <i>shigella</i>	ND	Report Only	Tested
<i>Escherichia coli/Shigella spp.</i> [‡]	ND	Report Only	Tested
<i>Listeria monocytogenes</i>	ND	Report Only	Tested
<i>Salmonella</i> – Specific Gene	ND	Report Only	Tested
<i>Staphylococcus Aureus</i>	ND	Report Only	Tested
<i>Pseudomonas Aeruginosa</i>	Detected	Report Only	Tested

[†] - Per Utah State R68-29-8 requirements

[‡] - Interpretation is based on presence of *Shigella* specific genes along with positive findings of STX1 and STX2 genes.

Analyzed by: A. Anderson Notes:

Reviewed by: C. Gunn

Hemp Oil_UCC201022A_10232020_1214 PM_012

Sample ID: UCC201022A

Date acquired: 10/23/2020 3:42:37 PM

Acquired by: Admin

Data File: C:\LabSolutions\Data\Hemp Oil_UCC201022A_10232020_1214 PM_012.lcd

Vial: 22 | Inj. Volume: 1.0000uL | Tray: 1

Name	Conc.	Unit	Comment 1	Comment 2
Abamectin B1a	----	ppm	0.5 ppm limit	LOQ = 0.001 ppm
Acephate	----	ppm	0.4 ppm limit	LOQ = 0.001 ppm
Acequinocyl	----	ppm	2 ppm limit	LOQ = 0.001 ppm
Acetamiprid	----	ppm	0.2 ppm limit	LOQ = 0.001 ppm
Aldicarb	----	ppm	0.4 ppm limit	LOQ = 0.001 ppm
Azoxystrobin	----	ppm	0.2 ppm limit	LOQ = 0.001 ppm
Bfienthrin	----	ppm	0.2 ppm limit	LOQ = 0.001 ppm
Bifenazate	----	ppm	0.2 ppm limit	LOQ = 0.001 ppm
Boscalid	----	ppm	0.4 ppm limit	LOQ = 0.001 ppm
Carbaryl	----	ppm	0.2 ppm limit	LOQ = 0.001 ppm
Carbofuran	----	ppm	0.2 ppm limit	LOQ = 0.001 ppm
Chlorantraniliprole	----	ppm	0.2 ppm limit	LOQ = 0.001 ppm
Chlorfenapyr	----	ppm	1 ppm limit	LOQ = 0.001 ppm
Chlorpyrifos	----	ppm	0.2 ppm limit	LOQ = 0.001 ppm
Clofentezine	----	ppm	0.2 ppm limit	LOQ = 0.001 ppm
Cyfluthrin	----	ppm	1 ppm limit	LOQ = 0.001 ppm
Cypermethrin	----	ppm	1 ppm limit	LOQ = 0.001 ppm
Daminozide	----	ppm	1 ppm limit	LOQ = 0.001 ppm
Diazinon	----	ppm	0.2 ppm limit	LOQ = 0.001 ppm
Dichlorvos	----	ppm	0.1 ppm limit	LOQ = 0.001 ppm
Dimethoate	----	ppm	0.2 ppm limit	LOQ = 0.001 ppm
Ethoprophos	----	ppm	0.2 ppm limit	LOQ = 0.001 ppm
Etofenprox	----	ppm	0.4 ppm limit	LOQ = 0.001 ppm
Etoxazole	----	ppm	0.2 ppm limit	LOQ = 0.001 ppm
Fenoxycarb	----	ppm	0.2 ppm limit	LOQ = 0.001 ppm
Fenpyroximate	----	ppm	0.4 ppm limit	LOQ = 0.001 ppm
Fipronil	----	ppm	0.4 ppm limit	LOQ = 0.001 ppm
Flonicamid	----	ppm	1 ppm limit	LOQ = 0.001 ppm
Fludioxonil	----	ppm	0.4 ppm limit	LOQ = 0.001 ppm
Hexythiazox	----	ppm	1 ppm limit	LOQ = 0.001 ppm
Imazalil	----	ppm	0.2 ppm limit	LOQ = 0.001 ppm
Imidacloprid	----	ppm	0.4 ppm limit	LOQ = 0.001 ppm
Kresoxim-methyl	----	ppm	0.4 ppm limit	LOQ = 0.001 ppm
Malathion	----	ppm	0.2 ppm limit	LOQ = 0.001 ppm
Metalaxyl	----	ppm	0.2 ppm limit	LOQ = 0.001 ppm
Methiocarb	----	ppm	0.2 ppm limit	LOQ = 0.001 ppm
Methomyl	----	ppm	0.4 ppm limit	LOQ = 0.001 ppm
MGK 264 (Pyrodone)	----	ppm	0.2 ppm limit	LOQ = 0.001 ppm
Myclobutanil	----	ppm	0.2 ppm limit	LOQ = 0.001 ppm
Naled	----	ppm	0.5 ppm limit	LOQ = 0.001 ppm
Oxamyl	----	ppm	1 ppm limit	LOQ = 0.001 ppm
Paclobutrazol	----	ppm	0.4 ppm limit	LOQ = 0.001 ppm
Parathion methyl	----	ppm	0.2 ppm limit	LOQ = 0.001 ppm
Permethrin	----	ppm	0.2 ppm limit	LOQ = 0.001 ppm
Phosmet	----	ppm	0.2 ppm limit	LOQ = 0.001 ppm
Piperonyl butoxide	----	ppm	2 ppm limit	LOQ = 0.001 ppm
Prallethrin	----	ppm	0.2 ppm limit	LOQ = 0.001 ppm
Propiconazole	----	ppm	0.4 ppm limit	LOQ = 0.001 ppm
Propoxur	----	ppm	0.2 ppm limit	LOQ = 0.001 ppm
Pyrethrin I	----	ppm	0.5 ppm limit	LOQ = 0.001 ppm
Pyrethrin II	----	ppm	0.5 ppm limit	LOQ = 0.001 ppm
Pyridaben	----	ppm	0.2 ppm limit	LOQ = 0.001 ppm
Spinosad A	----	ppm	0.1 ppm limit	LOQ = 0.001 ppm
Spinosad D	----	ppm	0.1 ppm limit	LOQ = 0.001 ppm
Spiromesifen	----	ppm	0.2 ppm limit	LOQ = 0.001 ppm
Spirotetramat	----	ppm	0.2 ppm limit	LOQ = 0.001 ppm
Spiroxamine-1	----	ppm	0.4 ppm limit	LOQ = 0.001 ppm
Tebuconazole	----	ppm	0.4 ppm limit	LOQ = 0.001 ppm
Thiacloprid	----	ppm	0.2 ppm limit	LOQ = 0.001 ppm
Thiamethoxam	----	ppm	0.2 ppm limit	LOQ = 0.001 ppm
Trifloxystrobin	----	ppm	0.2 ppm limit	LOQ = 0.001 ppm

 Comment:
 Pass

ICP-MS Analysis Report

Heavy Metal Certificate of Analysis

Client: Utah Cannabis Company Date Received: 10/22/2020
Sample Name: Hemp Oil Date Released: 10/27/2020
Sample Matrix: Distillate APRC #: UCC201022A
Sample Lot: N/A

Analyte	Conc. (ppm)	Specification [†] (ppm)	Disposition
Arsenic	0.088	< 2.00	Pass
Cadmium	0.039	< 0.82	Pass
Mercury	0.001	< 0.40	Pass
Lead	0.035	< 1.20	Pass

Prepared by: Cierra Gunn

[†] - Per Utah State Code 4-41a-701 (3) section R68-29-7

Reviewed by: Cody Wiscombe



Certificate of Analysis

Powered by Confident Cannabis

Muscle MX, LLC

Midvale, UT 84047
 mike@musclemx.com
 (801) 231-7329
 Lic. #CBD

Sample: 2006DBL0149.5970
 METRC Sample:

Strain: Activate Stick
 Ordered: 06/15/2020; Sampled: 06/18/2020; Completed: 06/26/2020

AS-051820

Topical, Salve, CO2



Pesticides



Microbials



Mycotoxins



Heavy Metals



Foreign Matter



Solvents

Terpenes

Analyzed by 300.13 GC/FID and GC/MS

6,569.562
 mg/unit
 Total Terpenes



Compound	LOQ mg/unit	Mass mg/unit	Mass mg/g	Relative Concentration
Eucalyptol	7.610	3234.740	43.130	
δ-Limonene	7.610	980.357	13.071	
α-Pinene	7.610	612.370	8.165	
cis-Ocimene	4.946	466.364	6.218	
p-Cymene	7.610	355.325	4.738	
β-Pinene	7.610	248.718	3.316	
α-Terpinene	7.610	181.266	2.417	
β-Myrcene	7.610	166.558	2.221	
γ-Terpinene	7.610	106.120	1.415	
trans-Ocimene	2.663	64.140	0.855	
Isopulegol	7.610	57.565	0.768	
β-Caryophyllene	7.610	26.347	0.351	
Terpinolene	7.610	26.153	0.349	
δ-3-Carene	7.610	22.646	0.302	
Linalool	7.610	12.468	0.166	
Camphene	7.610	8.425	0.112	
α-Bisabolol	7.610	<LOQ	<LOQ	
α-Humulene	7.610	<LOQ	<LOQ	
Caryophyllene Oxide	7.610	<LOQ	<LOQ	
cis-Nerolidol	4.946	<LOQ	<LOQ	
Guaiol	7.610	<LOQ	<LOQ	
trans-Nerolidol	2.663	<LOQ	<LOQ	

Cannabinoid Relative Concentration

Analyzed by 300.18 UHPLC/PDA

<LOQ
 Δ9-THC + Δ8-THC

380.585 mg/unit
 CBD

Not Tested

pH: NT
 Aw: NT

380.585 mg/unit
 Total Cannabinoids

Not Tested
 Homogeneity

Compound	LOQ mg/unit	Mass mg/unit	Mass mg/g	Relative Concentration
CBC	3.231	<LOQ	<LOQ	
CBCa	3.231	<LOQ	<LOQ	
CBD	3.231	380.585	5.074	
CBDa	3.231	<LOQ	<LOQ	
CBDV	3.231	<LOQ	<LOQ	
CBDVa	3.231	<LOQ	<LOQ	
CBG	3.231	<LOQ	<LOQ	
CBGa	3.231	<LOQ	<LOQ	
CBL	3.231	<LOQ	<LOQ	
CBN	3.231	<LOQ	<LOQ	
Δ8-THC	3.231	<LOQ	<LOQ	
Δ9-THC	3.231	<LOQ	<LOQ	
THCa	3.231	<LOQ	<LOQ	
THCV	3.231	<LOQ	<LOQ	
THCVa	3.231	<LOQ	<LOQ	

1 Unit = AS-051820, 75g
 Total THC = 0.877 x THC-A + Δ9-THC + Δ8-THC; Total CBD = CBDa * 0.877 + CBD



Stacy Gardalen

Stacy Gardalen
 Quality Control

Glen Marquez

Glen Marquez
 Quality Control



4439 Polaris Ave
 Las Vegas, NV
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This report is considered highly confidential and the sole property of the customer. DB Labs will not discuss any part of this study with personnel other than those authorized by the client. The results described in this report only apply to the samples analyzed. The reported result is based on a sample weight with the applicable moisture content for that sample. LOQ = Limit of Quantitation. Pesticide LOQ = Instrument Limit of Quantitation. NA = Not Analyzed. ND = Not Detected. NR = Not Reported. NT = Not Tested. PGR = Plant Growth Regulator. Unless otherwise stated all quality control samples performed within specifications established by the Laboratory. This product has been tested by DB Labs, LLC (MME# 61887736101164525768) using valid testing methodologies and a quality system as required by Nevada state law. Edibles are picked up prior to final packaging unless otherwise stated. Values reported relate only to the product tested. The uncertainty of measurement associated with the measurement result reported in this certificate is available from the organization upon request. DB Labs makes no claims as to the efficacy, safety or other risks associated with any detected or non-detected levels of any compounds reported herein. This Certificate shall not be reproduced except in full, without the written approval of DB Labs.



Certificate of Analysis

Powered by Confident Cannabis

Muscle MX, LLC

Midvale, UT 84047
 mike@musclemx.com
 (801) 231-7329
 Lic. #CBD

Sample: 2006DBL0149.5970
 METRC Sample:

Strain: Activate Stick
 Ordered: 06/15/2020; Sampled: 06/18/2020; Completed: 06/26/2020

AS-051820

Topical, Salve, CO2



Pesticides		Pass		
Analyzed by 300.9 LC/MS/MS and GC/MS/MS				
Compound	LOQ	Limit	Mass	Status
	PPB	PPB	PPB	
Abamectin	10	200	<LOQ	Pass
Acequinocyl	10	4000	<LOQ	Pass
Bifenazate	10	400	<LOQ	Pass
Bifenthrin	10	100	<LOQ	Pass
Cyfluthrin	10	2000	<LOQ	Pass
Cypermethrin	10	1000	<LOQ	Pass
Daminozide	10	800	<LOQ	Pass
Dimethomorph	10	2000	<LOQ	Pass
Etoxazole	10	400	<LOQ	Pass
Fenhexamid	10	1000	<LOQ	Pass
Flonicamid	10	1000	<LOQ	Pass
Fludioxonil	10	500	<LOQ	Pass
Imidacloprid	10	500	<LOQ	Pass
Myclobutanil	10	400	<LOQ	Pass
Pacllobutrazol	10	400	<LOQ	Pass
Piperonyl Butoxide	10	3000	<LOQ	Pass
Pyrethrins	10	2000	<LOQ	Pass
Quintozene	10	800	<LOQ	Pass
Spinetoram	10	1000	<LOQ	Pass
Spinosad	10	1000	<LOQ	Pass
Spirotetramat	10	1000	<LOQ	Pass
Thiamethoxam	10	400	<LOQ	Pass
Trifloxystrobin	10	1000	<LOQ	Pass
Plant Growth Regulators	10	50	<LOQ	Pass

Microbials		Pass		
Analyzed by 300.1 Plating/QPCR				
Quantitative Analysis	LOQ	Limit	Mass	Status
	CFU/g	CFU/g	CFU/g	
Aerobic Bacteria	10	<LOQ	<LOQ	Tested
Bile-Tolerant Gram-Negative Bacteria	10	10000	<LOQ	Pass
Coliforms	10	100000	<LOQ	Pass
Yeast & Mold	10	<LOQ	<LOQ	Tested
Qualitative Analysis	Detected or Not Detected			Status
E. Coli	Not Detected			Pass
Salmonella	Not Detected			Pass

Mycotoxins		Not Tested		
Analyzed by 300.2 Elisa				
Mycotoxin	LOQ	Limit	Mass	Status

Heavy Metals		Pass		
Analyzed by 300.8 ICP/MS				
Element	LOQ	Limit	Mass	Status
	PPB	PPB	PPB	
Arsenic	47	1	<LOQ	Pass
Cadmium	47	1	<LOQ	Pass
Lead	47	1200	<LOQ	Pass
Mercury	47	400	<LOQ	Pass

Residual Solvents		Pass		
Analyzed by 300.13 GC/FID and GC/MS				
Compound	LOQ	Limit	Mass	Status
	PPM	PPM	PPM	
Butanes	65	500	<LOQ	Pass
Ethanol	65	<LOQ	<LOQ	Tested
Heptanes	65	500	<LOQ	Pass
Propane	65	500	<LOQ	Pass



Stacy Gardalen
 Stacy Gardalen
 Quality Control

Glen Marquez
 Glen Marquez
 Quality Control



4439 Polaris Ave
 Las Vegas, NV
 (702) 728-5180
 www.dblabslv.com

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Certificate of Analysis

Powered by Confident Cannabis

Muscle MX, LLC

Midvale, UT 84047
mike@musclmx.com
(801) 231-7329
Lic. #CBD

Sample: 2006DBL0149.5970
METRC Sample:

Strain: Activate Stick
Ordered: 06/15/2020; Sampled: 06/18/2020; Completed: 06/26/2020

AS-051820

Topical, Salve, CO2




Microbials Pass

Analyzed by 300.1 Plating/QPCR

Quantitative Analysis	LOQ	Limit	Mass	Status
	CFU/g	CFU/g	CFU/g	
Aerobic Bacteria	10		<LOQ	Tested
Bile-Tolerant Gram-Negative Bacteria	10	10000	<LOQ	Pass
Coliforms	10	100000	<LOQ	Pass
Yeast & Mold	10		<LOQ	Tested

Qualitative Analysis	Detected or Not Detected	Status
E. Coli	Not Detected	Pass
Salmonella	Not Detected	Pass



Foreign Matter Pass



TNC = Too Numerous to Count



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 METRC Sample:

Strain: Activate Stick
 Ordered: 06/15/2020; Sampled: 06/18/2020; Completed: 06/26/2020

AS-051820

Topical, Salve, CO2



Pesticides/Plant Growth Regulators*

Analyzed by 300.9 LC/MS/MS and GC/MS/MS

Pass

Compound	LOQ PPB	Limit PPB	Mass PPB	Status
Abamectin	10	200	<LOQ	Pass
Acequinocyl	10	4000	<LOQ	Pass
Bifenazate	10	400	<LOQ	Pass
Bifenthrin	10	100	<LOQ	Pass
Cyfluthrin	10	2000	<LOQ	Pass
Cypermethrin	10	1000	<LOQ	Pass
Daminozide*	10	800	<LOQ	Pass
Dimethomorph	10	2000	<LOQ	Pass
Etoxazole	10	400	<LOQ	Pass
Fenhexamid	10	1000	<LOQ	Pass
Flonicamid	10	1000	<LOQ	Pass
Fludioxonil	10	500	<LOQ	Pass
Imidacloprid	10	500	<LOQ	Pass
Myclobutanil	10	400	<LOQ	Pass
Paclobutrazol*	10	400	<LOQ	Pass
Piperonyl Butoxide	10	3000	<LOQ	Pass
Plant Growth Regulators	10	50	<LOQ	Pass
Pyrethrins	10	2000	<LOQ	Pass
Quintozene	10	800	<LOQ	Pass
Spinetoram	10	1000	<LOQ	Pass
Spinosad	10	1000	<LOQ	Pass
Spirotetramat	10	1000	<LOQ	Pass
Thiamethoxam	10	400	<LOQ	Pass
Trifloxystrobin	10	1000	<LOQ	Pass



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Sample: 2006DBL0149.5970
METRC Sample:

Strain: Activate Stick
Ordered: 06/15/2020; Sampled: 06/18/2020; Completed: 06/26/2020

AS-051820

Topical, Salve, CO2



Residual Solvents					Pass
Analyzed by 300.13 GC/FID and GC/MS					
Compound	LOQ	Limit	Mass	Status	
	PPM	PPM	PPM		
Butanes	65	500	<LOQ	Pass	
Ethanol	65		<LOQ	Tested	
Heptane	65	500	<LOQ	Pass	
Propane	65	500	<LOQ	Pass	



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Sample: 2006DBL0149.5970
METRC Sample:

Strain: Activate Stick
Ordered: 06/15/2020; Sampled: 06/18/2020; Completed: 06/26/2020

AS-051820

Topical, Salve, CO2



Heavy Metals					Pass
Analyzed by 300.8 ICP/MS					
Element	LOQ	Limit	Mass	Status	
	PPB	PPB	PPB		
Arsenic	47	1	<LOQ	Pass	
Cadmium	47	1	<LOQ	Pass	
Lead	47	1200	<LOQ	Pass	
Mercury	47	400	<LOQ	Pass	



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Intentional Growth: Hawthorn



PASS
Overall Batch Results

0.439%

Total THC %

11.675%

Total CBD %

ND

Total Δ9-THC %

14.863%

Total Cannabinoids %
(Non-Decarboxylated)

1.910%

Total Terpenes %

Account Name: **Project Hemp Flower**
 Producer Name: **N/A**
 Producer Address: **N/A**
 Producer Lic#: **N/A**
 Distributor Name: **N/A**
 Distributor Address: **N/A**
 Distributor Lic#: **N/A**

Total THC per Package (mg): **N/A**
 Total THC per Serving (mg): **N/A**
 Total CBD per Package (mg): **N/A**
 Total CBD per Serving (mg): **N/A**

Sample ID: **3003748**
 Sample Type: **Inhalable Goods**
 Pick-Up Date: **N/A**
 Received Date: **2020-11-16**
 Sample Accession Date: **2020-11-17**
 Analysis Completed Date: **2020-11-19**
 Lot/Batch #: **40-1-1**
 Sample Weight/Volume: **11.07 g**
 Sample Unit Count: **N/A**
 Batch Weight/Volume: **N/A**
 Batch Unit Count: **N/A**
 Package Weight/Volume: **N/A**
 Serving Weight/Volume: **N/A**
 Density: **NT**
 Water Activity (aw): **0.3117**
 Water Activity Pass/Fail: **Pass**
 Moisture Content (%): **4.45%**
 Foreign Matter Pass/Fail: **Pass**
 METRC Source UID: **N/A**

Cannabinoids

TESTED

Terpenes

TESTED

Heavy Metals

PASS

Microbials

PASS

Chemical Residue

PASS

Mycotoxin

PASS

TESTED



Cannabinoid Analysis

Analyte	LOD (mg/g or mg/mL)	LOQ (mg/g or mg/mL)	Results (mg/g or mg/mL)	Results (%)	Action Limits (mg/g or mg/mL)	Serving Pass/Fail	Package Pass/Fail	
CBD	0.000313	0.000625	128.273	12.8273%	N/A	Pass	Pass	CBD 128.273
CBGA	0.000313	0.000625	8.926	0.8926%	N/A	Pass	Pass	CBGA 8.926
THCA	0.000625	0.00125	5.003	0.5003%	N/A	Pass	Pass	THCA 5.003
CBD	0.000625	0.00125	4.256	0.4256%	N/A	Pass	Pass	CBD 4.256
CBG	0.000625	0.00125	1.240	0.1240%	N/A	Pass	Pass	CBG 1.24
CBDVA	0.000313	0.000625	0.566	0.0566%	N/A	Pass	Pass	CBDVA 0.566
CBC	0.000625	0.00125	0.362	0.0362%	N/A	Pass	Pass	CBC 0.362
CBDV	0.000625	0.00125	ND	ND	N/A	Pass	Pass	CBDV
d8-THC	0.000625	0.005	ND	ND	N/A	Pass	Pass	d8-THC
d9-THC	0.000625	0.005	ND	ND	N/A	Pass	Pass	d9-THC
CBDV	0.000313	0.000625	ND	ND	N/A	Pass	Pass	CBDV
THCV	0.000313	0.000625	ND	ND	N/A	Pass	Pass	THCV

Instrument IR-ALTUS01	Method SOP-TP.01.2020.V02 Cannabinoids	Accession Date 2020-11-17	Panel Completed Date 2020-11-18
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Terpene Analysis

Analyte	LOD (mg/g or mg/mL)	LOQ (mg/g or mg/mL)	Results (mg/g or mg/mL)	Results (%)	
b-Pinene	0.000305	0.00061	4.603	0.4603%	b-Pinene 4.603
b-Myrcene	0.000305	0.00061	4.456	0.4456%	b-Myrcene 4.456
Caryophyllene	0.00122	0.00244	3.461	0.3461%	Caryophyllene 3.461
a-Pinene	0.000305	0.00061	2.122	0.2122%	a-Pinene 2.122
a-Bisabolol	0.00122	0.00244	1.687	0.1687%	a-Bisabolol 1.687
Guaiol	0.00122	0.00244	1.046	0.1046%	Guaiol 1.046
a-Humulene	0.00122	0.00244	0.978	0.0978%	a-Humulene 0.978
Limonene	0.000305	0.00061	0.387	0.0387%	Limonene 0.387
Linalool	0.00061	0.00122	0.243	0.0243%	Linalool 0.243
Ocimene	0.000305	0.00061	0.124	0.0124%	Ocimene 0.124
Caryophyllene Oxide	0.00244	0.00488	ND	ND	
trans-Nerolidol	0.00149	0.00299	ND	ND	
Geraniol	0.00122	0.00244	ND	ND	
Isopulegol	0.00122	0.00244	ND	ND	
cis-Nerolidol	0.00095	0.0019	ND	ND	
3-Carene	0.000305	0.00061	ND	ND	
a-Terpinene	0.000305	0.00061	ND	ND	
Camphene	0.000305	0.00061	ND	ND	
Eucalyptol	0.000305	0.00061	ND	ND	
p-Cymene	0.000305	0.00061	ND	ND	
Terpinolene	0.000305	0.00061	ND	ND	
y-Terpinene	0.000305	0.00061	ND	ND	

Instrument IR-CLARIS01	Method SOP-TP.07.2020.V02 Terpenes	Accession Date 2020-11-17	Panel Completed Date 2020-11-18
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Heavy Metals Analysis

PASS

Analyte	LOD (µg/g or µg/mL) ▾	LOQ (µg/g or µg/mL)	Action Limits (µg/g or µg/mL)	Results (µg/g or µg/mL)	Pass/Fail
Arsenic	0.0001	0.0001	0.0004 0.2	0.0983	Pass
Cadmium	0.0001	0.0001	0.0002 0.2	0.1724	Pass
Lead	0.0001	0.0001	0.0002 0.5	0.2187	Pass
Mercury	0.00003	0.0001	0.0001 0.1	0.0057	Pass

Instrument	Method	Accession Date ▾	Panel Completed Date
IR-NEXION01	SOP-TP.03.2020.V02 Heavy Metals	2020-11-17	2020-11-19

Microbial Analysis

PASS

Component Display Name ^	LOD (Copies of Input DNA)	LOQ (Copies of Input DNA)	Results (CFU/g)
<i>A. flavus</i>		2	62.5 ND
<i>A. fumigatus</i>		2	62.5 ND
<i>A. niger</i>		20	250 ND
<i>A. terreus</i>		2	62.5 ND
<i>E. coli</i>		2	62.5 ND
<i>Salmonella spp.</i>		10	250 ND

Instrument ▾	Method	Accession Date	Panel Completed Date
IR-ARIAMX01	SOP-TP.05.2020.V01 Microbials	2020-11-17	2020-11-19

Mycotoxin Analysis

PASS

Analyte	LOD (µg/g or µg/mL) ▾	LOQ (µg/g or µg/mL)	Results (µg/g or µg/mL)	Action Limits (µg/g or µg/mL)	Pass/Fail
Aflatoxin B1		0.002876	0.009586 ND	N/A	Pass
Aflatoxin B2		0.002377	0.007923 ND	N/A	Pass
Aflatoxin G2		0.002145	0.007149 ND	N/A	Pass
Aflatoxin G1		0.001901	0.006336 ND	N/A	Pass
Ochratoxin A		0.000794	0.002647 ND	0.02	Pass

Instrument	Method	Accession Date ▾	Panel Completed Date
IR-QSIGHT02	SOP-TP.08.2020.V02 Pesticides & Mycotoxins	2020-11-17	2020-11-19



Chemical Residue Analysis

PASS

Analyte	LOD (µg/g or µg/mL) ▾	LOQ (µg/g or µg/mL)	Action Limit (µg/g or µg/mL)	Results (µg/g or µg/mL)	Pass/Fail	Analyte	LOD (µg/g or µg/mL) ▾	LOQ (µg/g or µg/mL)	Action Limit (µg/g or µg/mL)	Results (µg/g or µg/mL)	Pass/Fail
Fionicamid	0.002773	0.009244	0.1	ND	Pass	Methyl Parathion	0.002894	0.009645	0	ND	Pass
Cypermethrin	0.002624	0.008746	1	ND	Pass	Pyrethrins	0.002267	0.007557	0.5	ND	Pass
Abamectin	0.001925	0.006417	0.1	ND	Pass	Pyridaben	0.001572	0.00524	0.1	ND	Pass
Fludioxinil	0.001688	0.005626	0.1	ND	Pass	Paclobutrazol	0.001487	0.004955	0	ND	Pass
Daminozide	0.001586	0.005287	0	ND	Pass	Spirotetramat	0.001254	0.004179	0.1	ND	Pass
Chlorantranilprole	0.001565	0.005216	10	ND	Pass	Prallethrin	0.001205	0.004015	0.1	ND	Pass
Azoxystrobin	0.001545	0.005151	0.1	ND	Pass	Methiocarb	0.000943	0.003142	0	ND	Pass
Chlorfenapyr	0.001529	0.005098	0	ND	Pass	Tebuconazole	0.000933	0.003111	0.1	ND	Pass
Cyfluthrin	0.001524	0.005081	2	ND	Pass	Spiromesifen	0.000933	0.003111	0.1	ND	Pass
Captan	0.001356	0.004521	0.7	ND	Pass	Spinosad	0.00092	0.003065	0.1	ND	Pass
Bifenazate	0.001312	0.004374	0.1	ND	Pass	Trifloxystrobin	0.000872	0.002906	0.1	ND	Pass
Chlordane	0.001294	0.004314	0	ND	Pass	Permethrin	0.000844	0.002814	0.5	ND	Pass
Dimethomorph	0.001285	0.004284	2	ND	Pass	Malathion	0.000813	0.00271	0.5	ND	Pass
Aldicarb	0.001222	0.004072	0	ND	Pass	Metalaxyl	0.000807	0.002689	2	ND	Pass
Coumaphos	0.001209	0.004032	0	ND	Pass	Propiconazole	0.000805	0.002682	0.1	ND	Pass
Carbaryl	0.001164	0.00388	0.5	ND	Pass	Propoxur	0.000794	0.002648	0	ND	Pass
Ethoprophos	0.001154	0.003847	0	ND	Pass	Imazalil	0.000785	0.002618	0	ND	Pass
Chlorpyrifos	0.001083	0.003612	0	ND	Pass	Myclobutanil	0.000753	0.002509	0.1	ND	Pass
Diazinon	0.00107	0.003566	0.1	ND	Pass	Spiroxamine	0.00072	0.002401	0	ND	Pass
Bifenthrin	0.000887	0.002957	3	ND	Pass	Hexythiazox	0.0007	0.002333	0.1	ND	Pass
Boscalid	0.000871	0.002902	0.1	ND	Pass	Piperonyl Butoxide	0.00069	0.002299	3	ND	Pass
Clofentezine	0.000835	0.002782	0.1	ND	Pass	Imidacloprid	0.000674	0.002246	5	ND	Pass
Fenpyroximate	0.000813	0.00271	0.1	ND	Pass	Kresoxim-Methyl	0.000668	0.002227	0.1	ND	Pass
Fipronil	0.000752	0.002505	0	ND	Pass	Spinetoram	0.00065	0.002165	0.1	ND	Pass
Fenoxycarb	0.000738	0.00246	0	ND	Pass	Oxamyl	0.000641	0.002136	0.5	ND	Pass
Etoxazole	0.00069	0.0023	0.1	ND	Pass	Thiamethoxam	0.000639	0.002129	5	ND	Pass
Dimethoate	0.000685	0.002284	0	ND	Pass	Methomyl	0.000614	0.002045	1	ND	Pass
Carbofuran	0.000666	0.00222	0	ND	Pass	Mevinphos	0.0006	0.002	0	ND	Pass
Acequinocyl	0.000661	0.002204	0.1	ND	Pass	PCNB	0.000588	0.001962	0.1	ND	Pass
Etofenprox	0.000652	0.002174	0	ND	Pass	Phosmet	0.000549	0.00183	0.1	ND	Pass
Fenhexamid	0.000651	0.002171	0.1	ND	Pass	Naled	0.000372	0.00124	0.1	ND	Pass
Dichlorvos	0.000643	0.002142	0	ND	Pass	Thiachloprid	0.000201	0.000671	0	ND	Pass
Acephate	0.00062	0.002066	0.1	ND	Pass						
Acetamiprid	0.000603	0.002009	0.1	ND	Pass						

Instrument	Method	Accession Date ▾	Panel Completed Date
IR-QSIGHT02	SOP-TP.08.2020V02 Pesticides & Mycotoxins	2020-11-17	2020-11-19

TESTED



SIGNATURE OF CONFIRMATION



Adam Floyd
Laboratory Manager

2020-11-19

Date of Confirmation

QUALITY REVIEW



Mike Tunis

2020-11-19

Date of Quality Review

All tests were performed with relevant laboratory quality control samples (LQCs) and passed prescribed acceptance criteria according to Barclays Official California Code of Regulations (CCR) section 5730, pursuant to 16 CCR section 5726 (e)(13). Testing results are based on the sample submitted to Think20 Labs LLC in the picture and description above. Think20 Labs LLC affirms that all analytical testing was performed consistent with industry standards and in accordance with validated methods designed and verified by Think20 Labs LLC. All testing results were produced in compliance with applicable state and federal laws. This report may not be reproduced, except in full, without the written approval of Think20 Labs LLC.

Total CBD = (CBDA * 0.877) + CBD

Total THC = (THCA * 0.877) + D9-THC

D9-THC % = (Component Amount in mg / 1000)

PPM to % = ((PPM/1000)/1000)*100

Moisture Content Adjustment = (Component Amount / (1000 mg - (1000 * Moisture Correction %)) * 1000

Total Cannabinoids %: Total decarboxylated cannabinoids concentration per BCC regulation 5724(A). Total cannabinoid concentration (mg/g) = (Cannabinoid acid form concentration (mg/g) x 0.877) + Cannabinoid concentration (mg/g)

Total Cannabinoids % (Non-Decarboxylated): Total Cannabinoids including the acidic forms. Total cannabinoid concentration (mg/g) = Cannabinoid acid form concentration (mg/g) + Cannabinoid concentration (mg/g)

LOQ = Limit of Quantitation

LOD = Limit of Detection

ND = Not Detected

PPB - Parts per Billion

PPM - Parts per Million

T20 TESTED





Certificate of Analysis

Powered by Confident Cannabis

Muscle MX, LLC

Midvale, UT 84047
 mike@musclmx.com
 (801) 231-7329
 Lic. #CBD

Sample: 2005DBL0116.5355

METRC Sample:
 Lot #: RCL20047

Strain: CBD

Ordered: 05/14/2020; Sampled: 05/18/2020; Completed: 05/26/2020

Restore Lotion

Topical, Lotion, CO2



Pesticides



Microbials



Mycotoxins



Heavy Metals



Foreign Matter



Solvents

Terpenes

Analyzed by 300.13 GC/FID and GC/MS

3,504.343
 mg/unit
 Total Terpenes



Compound	LOQ mg/unit	Mass mg/unit	Mass mg/g	Relative Concentration
Eucalyptol	8.929	1719.314	17.910	
δ-Limonene	8.929	742.000	7.729	
α-Pinene	8.929	260.571	2.714	
cis-Ocimene	5.803	170.000	1.771	
p-Cymene	8.929	168.057	1.751	
β-Pinene	8.929	119.943	1.249	
β-Myrcene	8.929	95.200	0.992	
α-Terpinene	8.929	79.714	0.830	
Terpinolene	8.929	49.143	0.512	
β-Caryophyllene	8.929	35.257	0.367	
γ-Terpinene	8.929	23.943	0.249	
Isopulegol	8.929	17.657	0.184	
Linalool	8.929	11.829	0.123	
trans-Ocimene	3.125	11.714	0.122	
α-Bisabolol	8.929	<LOQ	<LOQ	
α-Humulene	8.929	<LOQ	<LOQ	
Camphene	8.929	<LOQ	<LOQ	
Caryophyllene Oxide	8.929	<LOQ	<LOQ	
cis-Nerolidol	5.803	<LOQ	<LOQ	
δ-3-Carene	8.929	<LOQ	<LOQ	
Guaiol	8.929	<LOQ	<LOQ	
trans-Nerolidol	3.125	<LOQ	<LOQ	

Cannabinoid Relative Concentration

Analyzed by 300.18 UHPLC/PDA

Not Tested

<LOQ
 Δ9-THC + Δ8-THC

538.051 mg/unit
 CBD

pH: NT
 Aw: NT

538.051 mg/unit
 Total Cannabinoids

Not Tested
 Homogeneity

Compound	LOQ mg/unit	Mass mg/unit	Mass mg/g	Relative Concentration
CBC	5.878	<LOQ	<LOQ	
CBCa	5.878	<LOQ	<LOQ	
CBD	5.878	538.051	5.605	
CBDa	5.878	<LOQ	<LOQ	
CBDV	5.878	<LOQ	<LOQ	
CBDVa	5.878	<LOQ	<LOQ	
CBG	5.878	<LOQ	<LOQ	
CBGa	5.878	<LOQ	<LOQ	
CBL	5.878	<LOQ	<LOQ	
CBN	5.878	<LOQ	<LOQ	
Δ8-THC	5.878	<LOQ	<LOQ	
Δ9-THC	5.878	<LOQ	<LOQ	
THCa	5.878	<LOQ	<LOQ	
THCV	5.878	<LOQ	<LOQ	
THCVa	5.878	<LOQ	<LOQ	

1 Unit = Restore Lotion, 96g

Total THC = 0.877 x THC-A + Δ9-THC + Δ8-THC; Total CBD = CBDa * 0.877 + CBD



Stacy Gardalen

Stacy Gardalen
 Quality Control

Glen Marquez

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 Quality Control



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Certificate of Analysis

Powered by Confident Cannabis

Muscle MX, LLC

Midvale, UT 84047
 mike@musclemx.com
 (801) 231-7329
 Lic. #CBD

Sample: 2005DBL0116.5355

METRC Sample:
 Lot #: RCL20047

Strain: CBD

Ordered: 05/14/2020; Sampled: 05/18/2020; Completed: 05/26/2020

Restore Lotion

Topical, Lotion, CO2



Pesticides

Analyzed by 300.9 LC/MS/MS and GC/MS/MS

Pass

Compound	LOQ	Limit	Mass	Status
	PPB	PPB	PPB	
Abamectin	10	200	<LOQ	Pass
Acequinocyl	10	4000	<LOQ	Pass
Bifenazate	10	400	<LOQ	Pass
Bifenthrin	10	100	<LOQ	Pass
Cyfluthrin	10	2000	<LOQ	Pass
Cypermethrin	10	1000	<LOQ	Pass
Daminozide	10	800	<LOQ	Pass
Dimethomorph	10	2000	<LOQ	Pass
Etoxazole	10	400	<LOQ	Pass
Fenhexamid	10	1000	<LOQ	Pass
Flonicamid	10	1000	<LOQ	Pass
Fludioxonil	10	500	<LOQ	Pass
Imidacloprid	10	500	<LOQ	Pass
Myclobutanil	10	400	<LOQ	Pass
Pacllobutrazol	10	400	<LOQ	Pass
Piperonyl Butoxide	10	3000	<LOQ	Pass
Pyrethrins	10	2000	<LOQ	Pass
Quintozene	10	800	<LOQ	Pass
Spinetoram	10	1000	<LOQ	Pass
Spinosad	10	1000	<LOQ	Pass
Spirotetramat	10	1000	<LOQ	Pass
Thiamethoxam	10	400	<LOQ	Pass
Trifloxystrobin	10	1000	<LOQ	Pass
Plant Growth Regulators	10	50	<LOQ	Pass

Microbials

Analyzed by 300.1 Plating/QPCR

Pass

Quantitative Analysis	LOQ	Limit	Mass	Status
	CFU/g	CFU/g	CFU/g	
Aerobic Bacteria	9	100000	<LOQ	Pass
Bile-Tolerant Gram-Negative Bacteria	9	1000	<LOQ	Pass
Coliforms	9	1000	<LOQ	Pass
Yeast & Mold	9	10000	<LOQ	Pass

Qualitative Analysis	Detected or Not Detected	Status
E. Coli	Not Detected	Pass
Salmonella	Not Detected	Pass

Mycotoxins

Analyzed by 300.2 Elisa

Not Tested

Mycotoxin	LOQ	Limit	Mass	Status

Heavy Metals

Analyzed by 300.8 ICP/MS

Pass

Element	LOQ	Limit	Mass	Status
	PPB	PPB	PPB	
Arsenic	48	2000	<LOQ	Pass
Cadmium	48	820	<LOQ	Pass
Lead	48	1200	<LOQ	Pass
Mercury	48	400	<LOQ	Pass

Residual Solvents

Analyzed by 300.13 GC/FID and GC/MS

Pass

Compound	LOQ	Limit	Mass	Status
	PPM	PPM	PPM	
Butanes	60	500	<LOQ	Pass
Ethanol	60		<LOQ	Tested
Heptanes	60	500	<LOQ	Pass
Propane	60	500	<LOQ	Pass



Stacy Gardalen

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Certificate of Analysis

Powered by Confident Cannabis

Muscle MX, LLC

Midvale, UT 84047
 mike@musclm.com
 (801) 231-7329
 Lic. #CBD

Sample: 2007DBL0050.6479
 METRC Sample:

Strain: Recovery Stick
 Ordered: 07/06/2020; Sampled: 07/08/2020; Completed: 07/20/2020

RS-051820

Topical, Salve, CO2



Cannabinoids

- CBC
- CBCa
- CBD
- CBDa
- CBDV
- CBDVa
- CBG
- CBGa
- CBL
- CBN
- Δ8-THC
- Δ9-THC
- THCa
- THCV
- THCVa

Cannabinoids

<LOQ

477.363
mg/unit

Δ9-THC + Δ8-THC

CBD

477.363
mg/unit

NT

Total Cannabinoids

Moisture

1 Unit = RS-051820, 75g

Cannabinoid Profile

Analyzed by 300.18 UHPLC/PDA

Cannabinoid	Mass mg/unit	Mass mg/g	LOQ mg/unit
CBC	<LOQ	<LOQ	3.237
CBCa	<LOQ	<LOQ	3.237
CBD	477.363	6.365	3.237
CBDa	<LOQ	<LOQ	3.237
CBDV	<LOQ	<LOQ	3.237
CBDVa	<LOQ	<LOQ	3.237
CBG	<LOQ	<LOQ	3.237
CBGa	<LOQ	<LOQ	3.237
CBL	<LOQ	<LOQ	3.237
CBN	<LOQ	<LOQ	3.237
Δ8-THC	<LOQ	<LOQ	3.237
Δ9-THC	<LOQ	<LOQ	3.237
THCa	<LOQ	<LOQ	3.237
THCV	<LOQ	<LOQ	3.237
THCVa	<LOQ	<LOQ	3.237
Total THC	ND	ND	
Total CBD	477.363	6.365	
Total	477.363	6.365	



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Glen Marquez

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Certificate of Analysis

Powered by Confident Cannabis

Intentional Growth

Logan, UT 84321
 mb.intentionalgrowth@gmail.com
 (435) 764-6666
 Lic. #CBD

Sample: 2011DBL0091.10820
 METRC Sample:

Strain: Hawthorne Express
 Ordered: 11/08/2020; Sampled: 11/09/2020; Completed: 11/13/2020

Hemp CBD Preroll

Plant, Enhanced/Infused Preroll, Outdoor



Cannabinoids



Cannabinoids

0.503%



Total THC

12.347%



Total CBD

15.982%



Total Cannabinoids

NT



Moisture

Cannabinoid Profile

Analyzed by 300.18 UHPLC/PDA

Cannabinoid	Mass	Mass	LOQ
	%	mg/g	%
CBC	<LOQ	<LOQ	0.013
CBCa	0.600	6.00	0.013
CBD	0.451	4.51	0.013
CBDa	13.565	135.65	0.013
CBDV	<LOQ	<LOQ	0.013
CBDVa	0.038	0.38	0.013
CBG	<LOQ	<LOQ	0.013
CBGa	0.766	7.66	0.013
CBL	<LOQ	<LOQ	0.013
CBN	<LOQ	<LOQ	0.013
Δ8-THC	<LOQ	<LOQ	0.013
Δ9-THC	0.076	0.76	0.013
THCa	0.487	4.87	0.013
THCV	<LOQ	<LOQ	0.013
THCVa	<LOQ	<LOQ	0.013
Total THC	0.503	5.03	
Total CBD	12.347	123.47	
Total	15.982	159.82	



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Batch ID: 7455

Product Name: CBD Disposable Vaporizer

Batch Date: 11/13/19

Expiration Date: 11/13/20

Batch Size: 500

Total Quantity Produced: 500

SCROLL DOWN FOR COA



CERTIFICATE OF ANALYSIS



Order #: 704859
Batch #: NEB7455A
Order Date: 09/09/2019
Collection Date: 09/09/2019
Report Date: 09/12/2019
Customer: Utah Cannabis Co

Specimen Type: Extract
Description: FSO Oil
Extracted From: Hemp
Method: SOP-3

Initial Gross Weight: 20399.00(mg)
Specimen Weight: 111.60(mg)

Potency (HPLC)											
Analyte	Result (mg/g)	(%)	LOQ (%)	Analyte	Result (mg/g)	(%)	LOQ (%)	Analyte	Result (mg/g)	(%)	LOQ (%)
CBC	3.460	0.346	0.001	CBCA	ND	ND	0.001	CBD	615.000	61.500	0.001
CBDA	ND	ND	0.001	CBDV	4.941	0.494	0.001	CBDVA	ND	ND	0.001
CBG	0.894	0.089	0.001	CBGA	ND	ND	0.001	CBL	0.784	0.078	0.001
CBN	0.154	0.015	0.001	CBNA	ND	ND	0.001	Delta-8-THC	ND	ND	0.001
Delta-9-THC	2.956	0.296	0.001	THCA-A	ND	ND	0.001	THCV	0.687	0.069	0.001
THCVA	ND	ND	0.001	Total CBD	615.000	61.500	0.001	Total THC	2.956	0.296	0.001

Pesticides (Passed) (LCMS/MS)											
Analyte	Action Level (ppm)	Result (ppm)	LOQ (ppm)	Analyte	Action Level (ppm)	Result (ppm)	LOQ (ppm)	Analyte	Action Level (ppm)	Result (ppm)	LOQ (ppm)
Abamectin	0.500	<LOQ	0.100	Acephate	0.400	<LOQ	0.100	Acequinocyl	2.000	<LOQ	0.750
Acetamiprid	0.200	<LOQ	0.100	Aldicarb	0.400	<LOQ	0.100	Azoxystrobin	0.200	<LOQ	0.100
Bifenazate	0.200	<LOQ	0.100	Bifenthrin	0.200	<LOQ	0.100	Boscalid	0.400	<LOQ	0.100
Carbaryl	0.200	<LOQ	0.100	Carbofuran	0.200	<LOQ	0.100	Chlorantraniliprole	0.200	<LOQ	0.100
Chlorpyrifos	0.200	<LOQ	0.100	Clofentezine	0.200	<LOQ	0.100	Cypermethrin	1.000	<LOQ	0.100
Daminozide	1.000	<LOQ	0.100	Diazinon	0.200	<LOQ	0.100	Dichlorvos	0.100	<LOQ	0.100
Dimethoate	0.200	<LOQ	0.100	Ethoprophos	0.200	<LOQ	0.100	Etofenprox	0.400	<LOQ	0.100
Etoxazole	0.200	<LOQ	0.100	Fenoxycarb	0.200	<LOQ	0.100	Fipronil	0.400	<LOQ	0.100
Flonicamid	1.000	<LOQ	0.100	Fludioxonil	0.400	<LOQ	0.100	Hexythiazox	1.000	<LOQ	0.100
Imazalil	0.200	<LOQ	0.100	Imidacloprid	0.400	<LOQ	0.100	Kresoxim Methyl	0.400	<LOQ	0.100
Malathion A	0.200	<LOQ	0.100	Metaxyl	0.200	<LOQ	0.100	Methiocarb	0.200	<LOQ	0.100
Methomyl	0.400	<LOQ	0.100	MCK-264	0.200	<LOQ	0.100	Myclobutanil	0.200	<LOQ	0.100
Naled	0.500	<LOQ	0.100	Oxamyl	1.000	<LOQ	0.100	Pacllobutrazol	0.400	<LOQ	0.100
Parathion-methyl	0.200	<LOQ	0.250	Permethrin	0.200	<LOQ	0.100	Phosmet	0.200	<LOQ	0.100
Piperonylbutoxide	2.000	<LOQ	0.100	Prallethrin	0.200	<LOQ	0.100	Propiconazole	0.400	<LOQ	0.100
Propoxur	0.200	<LOQ	0.100	Pyrethrins	1.000	<LOQ	0.100	Pyridaben	0.200	<LOQ	0.100
Spinosyn A	0.200	<LOQ	0.100	Spinosyn D	0.200	<LOQ	0.100	Spiromesifen	0.200	<LOQ	0.100
Spirotetramat	0.200	<LOQ	0.100	Spiroxamine	0.400	<LOQ	0.100	Tebuconazole	0.400	<LOQ	0.100
Thiacloprid	0.200	<LOQ	0.100	Thiamethoxam	0.200	<LOQ	0.100	Trifloxystrobin	0.200	<LOQ	0.100

Thomas Farrell, MD
 Lab Director

* Total CBD = CBD + (CBD-A * 0.877). Total THC = THCA-A * 0.877 + Delta 9 THC, ND = <LOQ, T-Caryophyllene = Trans-Caryophyllene, <LOQ = Less Than Limit of Quantitation, QNS = Quantity Not Sufficient. (%) = Percent, (ppm) = Parts per Million, (ppb) = Parts per Billion, (µg/Kg) = Microgram per Kilogram, (mg/g) = Milligram per Gram, ppm = (µg/g), ppb = (µg/kg).

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 http://www.acslabcannabis.com CLIA No. 10D1094068

CERTIFICATE OF ANALYSIS



Order #: 704859
 Batch #: NEB7455A
 Order Date: 09/09/2019
 Collection Date: 09/09/2019
 Report Date: 09/12/2019
 Customer: Utah Cannabis Co

Specimen Type: Extract
 Description: FSO Oil
 Extracted From: Hemp
 Method: SOP-3

Initial Gross Weight: 20399.00(mg)
 Specimen Weight: 111.60(mg)

Residual Solvents (Passed)				(GC/GCMS)			
Analyte	Action Level (ppm)	Result (ppm)	LOQ (ppm)	Analyte	Action Level (ppm)	Result (ppm)	LOQ (ppm)
Acetone	5,000.000	<LOQ	87.900	Benzene	1,600	<LOQ	1,600
Ethanol	5,000.000	<LOQ	26.700	I-Butane	5,000.000	<LOQ	100.000
Methanol	3,000.000	<LOQ	87.900	N-Butane	5,000.000	<LOQ	200.000
Toluene	890.000	<LOQ	38.400	Chloroform		53.000	<LOQ
				Isopropanol	5,000.000	<LOQ	52.300
				Pentane	5,000.000	<LOQ	389.500

Heavy Metals (Passed)				(ICP-MS)			
Analyte	Action Level (ppb)	Result (ppb)	LOQ (ppb)	Analyte	Action Level (ppb)	Result (ppb)	LOQ (ppb)
Arsenic (As)	500.000	<LOQ	100.000	Cadmium (Cd)	500.000	<LOQ	100.000
Mercury (Hg)	500.000	<LOQ	100.000	Lead (Pb)	500.000	<LOQ	100.000

Mycotoxins (Passed)				(LCMS/MS)			
Analyte	Action Level (ppb)	Result (ppb)	LOQ (ppb)	Analyte	Action Level (ppb)	Result (ppb)	LOQ (ppb)
Aflatoxin B1		<LOQ	15.000	Aflatoxin B2		<LOQ	15.000
Aflatoxin G2		<LOQ	15.000	Aflatoxin Total	20.000	<LOQ	15.000
				Aflatoxin G1		<LOQ	15.000
				Ochratoxin A	20.000	<LOQ	15.000

Terpenes				(GC/GCMS)			
Analyte	Result (mg/g)	(%)	LOQ (%)	Analyte	Result (mg/g)	(%)	LOQ (%)
3-Carene		ND	0.001	Alpha-Bisabolol	0.090	0.009	0.001
Alpha-Terpinene		ND	0.001	Alpha-Terpineol	0.140	0.014	0.001
Beta-Myrcene	0.370	0.037	0.001	Beta-Pinene		ND	0.001
Fenchol	0.120	0.012	0.002	Gamma-Terpinene		ND	0.001
Geraniol		ND	0.001	Guaiol	0.090	0.009	0.001
Isopulegol		ND	0.001	Linalool	0.150	0.015	0.001
Nerolidol-2		ND	0.001	Ocimene-1		ND	0.001
P-Cymene		ND	0.001	R-Limonene	0.160	0.016	0.000
Trans-Caryophyllene	0.330	0.033	0.001	Alpha-Pinene	0.080	0.008	0.002
				Aromadendrene		ND	0.001
				Camphene		ND	0.001
				Gamma-Terpineol		ND	0.002
				Humulene	0.120	0.012	0.001
				Nerolidol-1		ND	0.001
				Ocimene-2		ND	0.001
				Terpinolene	0.050	0.005	0.001

Thomas Farrell, MD
 Lab Director

* Total CBD = CBD + (CBD-A * 0.877). Total THC = THCA-A * 0.877 + Delta 9 THC, ND = <LOQ, T-Caryophyllene = Trans-Caryophyllene, <LOQ = Less Than Limit of Quantitation, QNS = Quantity Not Sufficient. (%) = Percent, (ppm) = Parts per Million, (ppb) = Parts per Billion, (µg/Kg) = Microgram per Kilogram, (mg/g) = Milligram per Gram, ppm = (µg/g), ppb = (µg/kg).

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CERTIFICATE OF ANALYSIS



Order #: 704859 Specimen Type: Extract Initial Gross Weight: 20399.00(mg)
Batch #: NEB7455A Description: FSO Oil Specimen Weight: 111.60(mg)
Order Date: 09/09/2019 Extracted From: Hemp
Collection Date: 09/09/2019 Method: SOP-3
Report Date: 09/12/2019
Customer: Utah Cannabis Co

Microbiology (qPCR) (Passed)				(qPCR)	
Analyte		Analyte		Analyte	
Total Aerobic Count	Passed	Total Coliform	Passed	Total Enterobacteriaceae	Passed
Total Yeast/Mold	Passed				

Thomas Farrell, MD
Lab Director

* Total CBD = CBD + (CBD-A * 0.877). Total THC = THCA-A * 0.877 + Delta 9 THC, ND = <LOQ, T-Caryophyllene = Trans-Caryophyllene, <LOQ = Less Than Limit of Quantitation, QNS = Quantity Not Sufficient. (%) = Percent, (ppm) = Parts per Million, (ppb) = Parts per Billion, (µg/Kg) = Microgram per Kilogram, (mg/g) = Milligram per Gram, ppm = (µg/g), ppb = (µg/kg).

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Batch ID: 1001
Product Name: CBD Icy Gel 500mg.
Batch Date: 10/15/19
Expiration Date: 10/15/21
Batch Size: 200
Total Quantity Produced: 200

SCROLL DOWN FOR COA



Certificate of Analysis
Sample Information

CTLA ID: 11462
Date Received: 10/9/2019
Sample Name: Muscle Gel
Lot Number: 1001
Customer: Utah Cannabis Co

Analysis	Method	MDL Specification	Result	Units
Pesticides				
Abamectin	USP <561>	.01 Report	ND	ppm
Acequinocyl	USP <561>	.01 Report	ND	ppm
Bifenazate	USP <561>	.01 Report	ND	ppm
Bifenthrin	USP <561>	.01 Report	ND	ppm
Cyfluthrin	USP <561>	.01 Report	ND	ppm
Cypermethrin	USP <561>	.01 Report	ND	ppm
Daminozide	USP <561>	.01 Report	ND	ppm
Dimethomorph	USP <561>	.01 Report	ND	ppm
Etoxazole	USP <561>	.01 Report	ND	ppm
Fenhexamid	USP <561>	.01 Report	ND	ppm
Fonicamid	USP <561>	.01 Report	ND	ppm
Fludioxonil	USP <561>	.01 Report	ND	ppm
Imidacloprid	USP <561>	.01 Report	ND	ppm
Myclobutanil	USP <561>	.01 Report	ND	ppm
Paclobutrazol	USP <561>	.01 Report	ND	ppm
Piperonyl Butoxide	USP <561>	.01 Report	ND	ppm
Pyrethrins	USP <561>	.01 Report	ND	ppm
Quintozene	USP <561>	.01 Report	ND	ppm
Spinetoram	USP <561>	.01 Report	ND	ppm
Spinosad	USP <561>	.01 Report	ND	ppm
Spirotetramat	USP <561>	.01 Report	ND	ppm
Thiamethoxam	USP <561>	.01 Report	ND	ppm
Trifloxystrobin	USP <561>	.01 Report	ND	ppm
Plant Growth Regulators	USP <561>	.01 Report	ND	ppm


Quality Manager

Specifications provided by the Customer. Results with an asterisk (*) denote Specifications should be reviewed by the Customer. This Certificate of Analysis represents data for the sample submitted and does not constitute a guarantee of quality for the entire product from which it was taken. These results are provided for the benefit of the Customer. MDL = Machine Detection Limit.

Certificate of Analysis
Sample Information

CTLA ID: 11462
Date Received: 10/9/2019
Sample Name: Muscle Gel
Lot Number: 1001
Customer: Utah Cannabis Co

Analysis	Method	MDL Specification	Result	Units
Cannabinoid Concentration				
Total Cannabidiol (CBD)	HPLC	2.055 Report	524.034	mg/50 ml
Total Tetrahydrocannabinol (THC)	HPLC	0.004 Report	ND	%
CBD	HPLC	2.055 Report	524.034	mg/50 ml
CBDA	HPLC	2.055 Report	ND	mg/50 ml
Δ9-THC	HPLC	2.055 Report	ND	mg/50 ml
THCA	HPLC	2.055 Report	ND	mg/50 ml
Δ8-THC	HPLC	2.055 Report	ND	mg/50 ml
THCV	HPLC	2.055 Report	ND	mg/50 ml
CBDV	HPLC	2.055 Report	2.682	mg/50 ml
CBDVA	HPLC	2.055 Report	ND	mg/50 ml
CBGA	HPLC	2.055 Report	ND	mg/50 ml
CBG	HPLC	2.055 Report	2.398	mg/50 ml
CBN	HPLC	2.055 Report	ND	mg/50 ml
CBC	HPLC	2.055 Report	ND	mg/50 ml
CBL	HPLC	2.055 Report	ND	mg/50 ml

ND = None Detected

Total CBD = CBD + (CBDA*0.877)
Total THC = Δ9-THC + Δ8-THC

50 ml = 46.815 g

Density = 0.936 g/ml

Total Cannabinoids = 529.114 mg/50 ml


Quality Manager

Specifications provided by the Customer. Results with an asterisk (*) denote Specifications should be reviewed by the Customer. This Certificate of Analysis represents data for the sample submitted and does not constitute a guarantee of quality for the entire product from which it was taken. These results are provided for the benefit of the Customer. MDL = Method Detection Limit.



CERTIFICATE OF ANALYSIS

prepared for: UTAH CANNABIS CO.
129 E. 13800 S. SUITE B-2#236
DRAPER, UT 84020

CBD ICY GEL 500mg

Batch ID:	1001	Test ID:	6228635.016
Reported:	8-Nov-2019	Method:	Topical - Test Methods: TM05, TM06
Type:	Topical		
Test:	Microbial Contaminants		

MICROBIAL CONTAMINANTS

Contaminant	Result (CFU/g)*
Total Aerobic Count**	None Detected
Total Coliforms**	None Detected
Total Yeast and Molds**	None Detected
E. coli	None Detected
Salmonella	None Detected

* CFU/g = Colony Forming Unit per Gram



** 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

NOTES:

Free from visual mold, mildew, and foreign matter
TYM: None Detected
Total Aerobic: None Detected
Coliforms: None Detected

FINAL APPROVAL

 Samantha Pauly 8-Nov-2019 3:23 PM	 David Green 8-Nov-2019 3:32 PM
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PREPARED BY / DATE

APPROVED BY / DATE

Testing results are based solely upon the sample submitted to Botanacor Services, LLC, in the condition it was received. Botanacor Services, LLC warrants that all analytical work is conducted professionally in accordance with all applicable standard laboratory practices using validated methods. Data was generated using an unbroken chain of comparison to NIST traceable Reference Standards and Certified Reference Materials. This report may not be reproduced, except in full, without the written approval of Botanacor Services, LLC.



CERTIFICATE OF ANALYSIS

prepared for: UTAH CANNABIS CO.
129 E. 13800 S. SUITE B-2#236
DRAPER, UT 84020

CBD ICY GEL 500mg

Batch ID:	1001	Test ID:	8829649.027
Reported:	8-Nov-2019	Method:	TM04
Type:	Concentrate		
Test:	Residual Solvents		

RESIDUAL SOLVENTS

Solvent	Reportable Range (ppm)	Result (ppm)
Propane	100 - 2000	0
Butanes (Isobutane, n-Butane)	100 - 2000	0
Pentane	100 - 2000	0
Ethanol	100 - 2000	>2000
Acetone	100 - 2000	0
Isopropyl Alcohol	100 - 2000	>2000
Hexane	6 - 120	0
Benzene	0.2 - 4	0.0
Heptanes	100 - 2000	0
Toluene	18 - 360	0
Xylenes (m,p,o-Xylenes)	43 - 860	0

NOTES:
Free from visual mold, mildew, and foreign matter.

FINAL APPROVAL

	Karen Winternheimer 8-Nov-2019 4:08 PM		David Green 8-Nov-2019 4:14 PM
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PREPARED BY / DATE

APPROVED BY / DATE

Testing results are based solely upon the sample submitted to Botanacor Laboratories, LLC, in the condition it was received. Botanacor Laboratories, LLC warrants that all analytical work is conducted professionally in accordance with all applicable standard laboratory practices using validated methods. Data was generated using an unbroken chain of comparison to NIST traceable Reference Standards and Certified Reference Materials. This report may not be reproduced, except in full, without the written approval of Botanacor Laboratories, LLC. ISO/IEC 17025:2005 Accredited A2LA Certificate Number 4329.02





CERTIFICATE OF ANALYSIS

prepared for: UTAH CANNABIS CO.
129 E. 13800 S. SUITE B-2#236
DRAPER, UT 84020


CBD ICY GEL 500mg


Batch ID: 1001	Test ID: T000030206
Reported: 18-Nov-2019	Method: Arsenic = Arsenic EPA 6020A (mod), Cadmium = Cadmium EPA 6020A (mod), Lead = Lead EPA 6020A (mod), Mercury = Mercury EPA 6020A (mod)
Type: Other	
Test: Metals	

HEAVY METALS

Compound	Reporting Limit (ppm)	Result (ppm)
Arsenic	0.05	<0.05
Cadmium	0.05	<0.05
Lead	0.05	<0.05
Mercury	0.05	<0.05

FINAL APPROVAL


Samantha Smith
18-Nov-2019
7:14 AM
PREPARED BY / DATE


David Green
18-Nov-2019
8:56 AM
APPROVED BY / DATE

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✱
UTAH
CANNABIS
CO™

Batch ID: 695111

Product Name: CBD Gummies 25mg. Per Gummy

Batch Date: 05/21/20

Expiration Date: 05/21/22

Batch Size: 2500

Total Quantity Produced: 2500

SCROLL DOWN FOR COA





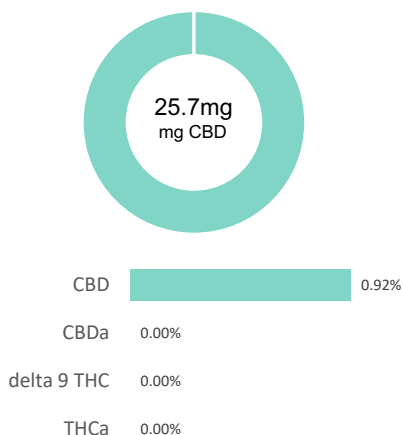
CERTIFICATE OF ANALYSIS

prepared for: UTAH CANNABIS CO.
129 E. 13800 S. SUITE B-2#236
DRAPER, UT 84020

CBD Gummies

Batch ID:	65911	Test ID:	3865064.0016
Reported:	16-Jun-2020	Method:	TM14
Type:	Unit		
Test:	Potency		

CANNABINOID PROFILE



Compound	LOQ (mg)	Result (mg)	Result (mg/g)
Delta 9-Tetrahydrocannabinolic acid (THCA-A)	0.83	ND	ND
Delta 9-Tetrahydrocannabinol (Delta 9THC)	0.41	ND	ND
Cannabidiolic acid (CBDA)	0.34	ND	ND
Cannabidiol (CBD)	0.19	25.70	9.2
Delta 8-Tetrahydrocannabinol (Delta 8THC)	0.45	ND	ND
Cannabinolic Acid (CBNA)	1.14	ND	ND
Cannabinol (CBN)	0.50	ND	ND
Cannabigerolic acid (CBGA)	0.73	ND	ND
Cannabigerol (CBG)	0.41	ND	ND
Tetrahydrocannabivarinic Acid (THCVA)	0.71	ND	ND
Tetrahydrocannabivarin (THCV)	0.37	ND	ND
Cannabidivarinic Acid (CBDVA)	0.32	ND	ND
Cannabidivarin (CBDV)	0.17	ND	ND
Cannabichromenic Acid (CBCA)	0.62	ND	ND
Cannabichromene (CBC)	0.75	ND	ND
Total Cannabinoids		25.70	9.17
Total Potential THC**		ND	ND
Total Potential CBD**		25.70	9.17

NOTES:

of Servings = 1, Sample Weight=2.8026g

N/A

% = % (w/w) = Percent (Weight of Analyte / Weight of Product)
 * Total Cannabinoids result reflects the absolute sum of all cannabinoids detected.
 ** 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))
 ND = None Detected (Defined by Dynamic Range of the method)

FINAL APPROVAL

	Michelle Gagnon 16-Jun-2020 11:32 AM		Ben Minton 16-Jun-2020 1:12 PM
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PREPARED BY / DATE

APPROVED BY / DATE

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CERTIFICATE OF ANALYSIS

prepared for: UTAH CANNABIS CO.
129 E. 13800 S. SUITE B-2#236
DRAPER, UT 84020

CBD Gummies

Batch ID:	65911	Test ID:	T000080543
Reported:	15-Jun-2020	Method:	Edible - Test Methods: TM05, TM06
Type:	Edible		
Test:	Microbial Contaminants		

MICROBIAL CONTAMINANTS

Contaminant	Result (CFU/g)*
Total Aerobic Count**	None Detected
Total Coliforms**	None Detected
Total Yeast and Molds**	None Detected
E. coli	None Detected
Salmonella	None Detected

* CFU/g = Colony Forming Unit per Gram



** Values recorded in scientific notation, a common microbial practice of expressing numbers that are too large to be conveniently written in decimal form.

Examples: 10² = 100 CFU
10³ = 1,000 CFU
10⁴ = 10,000 CFU
10⁵ = 100,000 CFU

NOTES:

Free from visual mold, mildew, and foreign matter
TYM: None Detected
Total Aerobic: None Detected
Coliforms: None Detected

FINAL APPROVAL

	Robert Belfon 15-Jun-2020 2:19 PM		Greg Zimpfer 15-Jun-2020 4:50 PM
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PREPARED BY / DATE

APPROVED BY / DATE

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Certificate #4329.03



CERTIFICATE OF ANALYSIS

prepared for: UTAH CANNABIS CO.
129 E. 13800 S. SUITE B-2#236
DRAPER, UT 84020

CBD Gummies

Table with 2 columns: Field Name (Batch ID, Reported, Type, Test) and Value (65911, 17-Jun-2020, Concentrate, Pesticides). Includes Test ID: 3012800.0036 and Method: TM17.

PESTICIDE RESIDUE

Table with 6 columns: Compound, Dynamic Range (ppb), Result (ppb), Compound, Dynamic Range (ppb), Result (ppb). Lists various pesticides like Acephate, Malathion, etc., with results mostly ND*.

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

FINAL APPROVAL

Tyler Wiese
17-Jun-2020
3:34 PM
PREPARED BY / DATE

Greg Zimpfer
17-Jun-2020
7:50 PM
APPROVED BY / DATE

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CERTIFICATE OF ANALYSIS

prepared for: UTAH CANNABIS CO.
129 E. 13800 S. SUITE B-2#236
DRAPER, UT 84020

CBD Gummies


Batch ID:	65911	Test ID:	T000080545
Reported:	17-Jun-2020	Method:	TM19
Type:	Other		
Test:	Metals		


HEAVY METALS

Analyte	Dynamic Range (ppm)	Result (ppm)
Arsenic	0.070 - 7.00	ND
Cadmium	0.068 - 6.84	0.087
Mercury	0.071 - 7.08	ND
Lead	0.068 - 6.84	0.086

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

FINAL APPROVAL


PREPARED BY / DATE
Ryan Weems
17-Jun-2020
2:52 PM


APPROVED BY / DATE
Greg Zimpher
17-Jun-2020
7:43 PM

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Certificate of Analysis
Sample Information

CTLA ID: 10801
Date Received: 6/09/2020
Sample Name: CBD Gummies 25 mg per Gummy
Lot Number: 695111
Customer: Utah Cannabis Company

Analysis	Method	MDL Specification	Result	Units
Residual Solvents				
Butanes	USP <467>	79 Report	ND	ppm
Heptanes	USP <467>	79 Report	ND	ppm
Propanes	USP <467>	79 Report	ND	ppm


Quality Manager

Specifications provided by the Customer. Results with an asterisk (*) denote Specifications should be reviewed by the Customer. This Certificate of Analysis represents data for the sample submitted and does not constitute a guarantee of quality for the entire product from which it was taken. These results are provided for the benefit of the Customer. MDL = Method Detection Limit.

✱

UTAH

CANNABIS

————— **CO**[™] —————

Batch ID: 595111

Product Name: CBD Mints 10mg. Per Mint

Batch Date: 04/12/20

Expiration Date: 04/12/22

Batch Size: 18000

Total Quantity Produced: 18000

SCROLL DOWN FOR COA





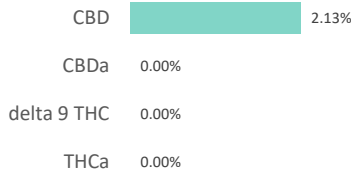
CERTIFICATE OF ANALYSIS

prepared for: UTAH CANNABIS CO.
129 E. 13800 S. SUITE B-2#236
DRAPER, UT 84020

CBD Mints

Batch ID:	595111	Test ID:	3865064.0015
Reported:	16-Jun-2020	Method:	TM14
Type:	Unit		
Test:	Potency		

CANNABINOID PROFILE



Compound	LOQ (mg)	Result (mg)	Result (mg/g)
Delta 9-Tetrahydrocannabinolic acid (THCA-A)	0.46	ND	ND
Delta 9-Tetrahydrocannabinol (Delta 9THC)	0.23	ND	ND
Cannabidiolic acid (CBDA)	0.19	ND	ND
Cannabidiol (CBD)	0.11	10.90	21.3
Delta 8-Tetrahydrocannabinol (Delta 8THC)	0.25	ND	ND
Cannabinolic Acid (CBNA)	0.63	ND	ND
Cannabinol (CBN)	0.28	ND	ND
Cannabigerolic acid (CBGA)	0.40	ND	ND
Cannabigerol (CBG)	0.23	ND	ND
Tetrahydrocannabivarinic Acid (THCVA)	0.40	ND	ND
Tetrahydrocannabivarin (THCV)	0.21	ND	ND
Cannabidivarinic Acid (CBDVA)	0.18	ND	ND
Cannabidivarin (CBDV)	0.10	ND	ND
Cannabichromenic Acid (CBCA)	0.35	ND	ND
Cannabichromene (CBC)	0.42	ND	ND
Total Cannabinoids		10.90	21.27
Total Potential THC**		ND	ND
Total Potential CBD**		10.90	21.27

NOTES:

of Servings = 1, Sample Weight=0.51253g

N/A

% = % (w/w) = Percent (Weight of Analyte / Weight of Product)
 * Total Cannabinoids result reflects the absolute sum of all cannabinoids detected.
 ** 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))
 ND = None Detected (Defined by Dynamic Range of the method)

FINAL APPROVAL

	Michelle Gagnon 16-Jun-2020 11:32 AM		Ben Minton 16-Jun-2020 1:12 PM
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PREPARED BY / DATE

APPROVED BY / DATE

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Certificate #4329.02



CERTIFICATE OF ANALYSIS

prepared for: UTAH CANNABIS CO.
129 E. 13800 S. SUITE B-2#236
DRAPER, UT 84020

CBD Mints

Batch ID:	595111	Test ID:	T000080539
Reported:	15-Jun-2020	Method:	Edible - Test Methods: TM05, TM06
Type:	Edible		
Test:	Microbial Contaminants		

MICROBIAL CONTAMINANTS

Contaminant	Result (CFU/g)*
Total Aerobic Count**	None Detected
Total Coliforms**	None Detected
Total Yeast and Molds**	None Detected
E. coli	None Detected
Salmonella	None Detected

* CFU/g = Colony Forming Unit per Gram

** Values recorded in scientific notation, a common microbial practice of expressing numbers that are too large to be conveniently written in decimal form.

Examples: 10² = 100 CFU
10³ = 1,000 CFU
10⁴ = 10,000 CFU
10⁵ = 100,000 CFU

NOTES:

Free from visual mold, mildew, and foreign matter
TYM: None Detected
Total Aerobic: None Detected
Coliforms: None Detected

FINAL APPROVAL

	Robert Belfon 15-Jun-2020 2:19 PM		Greg Zimpfer 15-Jun-2020 4:50 PM
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PREPARED BY / DATE

APPROVED BY / DATE

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Certificate #4329.03



CERTIFICATE OF ANALYSIS

prepared for: UTAH CANNABIS CO.
129 E. 13800 S. SUITE B-2#236
DRAPER, UT 84020

CBD Mints

Batch ID:	595111	Test ID:	3012800.0038
Reported:	17-Jun-2020	Method:	TM17
Type:	Concentrate		
Test:	Pesticides		

PESTICIDE RESIDUE


Compound	Dynamic Range (ppb)	Result (ppb)	Compound	Dynamic Range (ppb)	Result (ppb)
Acephate	54 - 2478	ND*	Malathion	321 - 2478	ND*
Acetamiprid	54 - 2478	ND*	Metalaxyl	54 - 2478	ND*
Abamectin	>321	ND*	Methiocarb	54 - 2478	ND*
Azoxystrobin	54 - 2478	ND*	Methomyl	54 - 2478	ND*
Bifenazate	54 - 2478	ND*	MGK 264 1	321 - 2478	ND*
Boscalid	54 - 2478	ND*	MGK 264 2	321 - 2478	ND*
Carbaryl	54 - 2478	ND*	Myclobutanil	54 - 2478	ND*
Carbofuran	54 - 2478	ND*	Naled	54 - 2478	ND*
Chlorantraniliprole	54 - 2478	ND*	Oxamyl	54 - 2478	ND*
Chlorpyrifos	54 - 2478	ND*	Paclobutrazol	54 - 2478	ND*
Clofentezine	321 - 2478	ND*	Permethrin	321 - 2478	ND*
Diazinon	321 - 2478	ND*	Phosmet	54 - 2478	ND*
Dichlorvos	>321	ND*	Propoxur	321 - 2478	ND*
Dimethoate	54 - 2478	ND*	Propoxur	54 - 2478	ND*
E-Fenpyroximate	54 - 2478	ND*	Pyridaben	54 - 2478	ND*
Etofenprox	54 - 2478	ND*	Spinosad A	54 - 2478	ND*
Etoxazole	321 - 2478	ND*	Spinosad D	321 - 2478	ND*
Fenoxycarb	>54	ND*	Spiromesifen	>321	ND*
Fipronil	54 - 2478	ND*	Spirotetramat	>321	ND*
Flonicamid	54 - 2478	ND*	Spiroxamine 1	54 - 2478	ND*
Fludioxonil	>321	ND*	Spiroxamine 2	54 - 2478	ND*
Hexythiazox	54 - 2478	ND*	Tebuconazole	321 - 2478	ND*
Imazail	321 - 2478	ND*	Thiacloprid	54 - 2478	ND*
Imidacloprid	54 - 2478	ND*	Thiamethoxam	54 - 2478	ND*
Kresoxim-methyl	54 - 2478	ND*	Trifloxystrobin	54 - 2478	ND*

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

N/A

FINAL APPROVAL


Tyler Wiese
17-Jun-2020
3:34 PM
PREPARED BY / DATE


Greg Zimpfer
17-Jun-2020
7:50 PM
APPROVED BY / DATE

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CERTIFICATE OF ANALYSIS

prepared for: UTAH CANNABIS CO.
129 E. 13800 S. SUITE B-2#236
DRAPER, UT 84020

CBD Mints


Batch ID:	595111	Test ID:	T000080541
Reported:	17-Jun-2020	Method:	TM19
Type:	Other		
Test:	Metals		


HEAVY METALS

Analyte	Dynamic Range (ppm)	Result (ppm)
Arsenic	0.065 - 6.53	ND
Cadmium	0.064 - 6.37	ND
Mercury	0.066 - 6.60	ND
Lead	0.064 - 6.38	ND

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

FINAL APPROVAL


PREPARED BY / DATE
Ryan Weems
17-Jun-2020
2:52 PM


APPROVED BY / DATE
Greg Zimfer
17-Jun-2020
7:43 PM

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Certificate of Analysis
Sample Information

CTLA ID: 8666
Date Received: 5/23/2020
Sample Name: CBD Mints 10 mg
Lot Number: 595111
Customer: Utah Cannabis Company

Analysis	Method	MDL Specification	Result	Units
Residual Solvents				
Butanes	USP <467>	68 Report	ND	ppm
Heptanes	USP <467>	68 Report	ND	ppm
Propanes	USP <467>	68 Report	ND	ppm

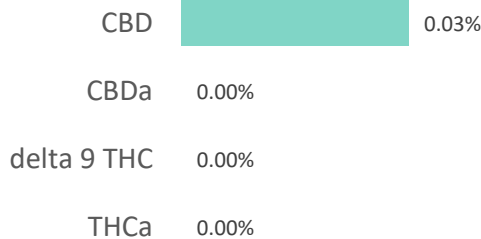
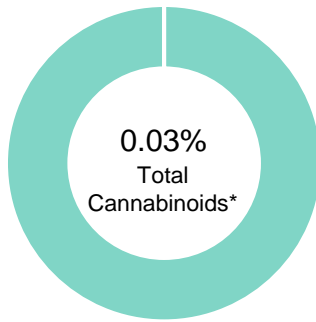

Quality Manager

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Calm Bomb Soothing Oatmeal

Batch ID:		Test ID:	T000099587
Reported:	2-Oct-2020	Method:	TM14
Type:	Concentrate		
Test:	Potency		

CANNABINOID PROFILE





Compound	LOQ (%)	Result (%)	Result (mg/g)
Delta 9-Tetrahydrocannabinolic acid (THCA-A)	0.00	ND	ND
Delta 9-Tetrahydrocannabinol (Delta 9THC)	0.00	ND	ND
Cannabidiolic acid (CBDA)	0.00	ND	ND
Cannabidiol (CBD)	0.00	0.03	0.3
Delta 8-Tetrahydrocannabinol (Delta 8THC)	0.00	ND	ND
Cannabinolic Acid (CBNA)	0.00	ND	ND
Cannabinol (CBN)	0.00	ND	ND
Cannabigerolic acid (CBGA)	0.00	ND	ND
Cannabigerol (CBG)	0.00	ND	ND
Tetrahydrocannabivarinic Acid (THCVA)	0.00	ND	ND
Tetrahydrocannabivarin (THCV)	0.00	ND	ND
Cannabidivarinic Acid (CBDVA)	0.00	ND	ND
Cannabidivarin (CBDV)	0.00	ND	ND
Cannabichromenic Acid (CBCA)	0.00	ND	ND
Cannabichromene (CBC)	0.00	ND	ND
Total Cannabinoids		0.03	0.3
Total Potential THC**		ND	ND
Total Potential CBD**		0.03	0.3

NOTES:

N/A

% = % (w/w) = Percent (Weight of Analyte / Weight of Product)
 * Total Cannabinoids result reflects the absolute sum of all cannabinoids detected.
 ** 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
 $Total\ CBD = CBD + (CBDa * (0.877))$
 ND = None Detected (Defined by Dynamic Range of the method)

FINAL APPROVAL

	Daniel Weidensaul 2-Oct-2020 5:22 PM		Scott Hansen 2-Oct-2020 7:29 PM
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PREPARED BY / DATE

APPROVED BY / DATE

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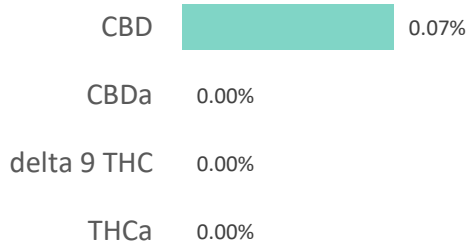
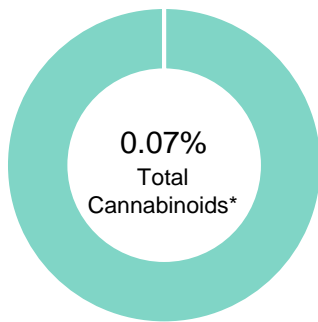


Certificate #4329.02

Chill Pill

Batch ID:		Test ID:	T000099589
Reported:	2-Oct-2020	Method:	TM14
Type:	Concentrate		
Test:	Potency		

CANNABINOID PROFILE





Compound	LOQ (%)	Result (%)	Result (mg/g)
Delta 9-Tetrahydrocannabinolic acid (THCA-A)	0.00	ND	ND
Delta 9-Tetrahydrocannabinol (Delta 9THC)	0.00	ND	ND
Cannabidiolic acid (CBDA)	0.00	ND	ND
Cannabidiol (CBD)	0.00	0.07	0.7
Delta 8-Tetrahydrocannabinol (Delta 8THC)	0.00	ND	ND
Cannabinolic Acid (CBNA)	0.00	ND	ND
Cannabinol (CBN)	0.00	ND	ND
Cannabigerolic acid (CBGA)	0.00	ND	ND
Cannabigerol (CBG)	0.00	ND	ND
Tetrahydrocannabivarinic Acid (THCVA)	0.00	ND	ND
Tetrahydrocannabivarin (THCV)	0.00	ND	ND
Cannabidivarinic Acid (CBDVA)	0.00	ND	ND
Cannabidivarin (CBDV)	0.00	ND	ND
Cannabichromenic Acid (CBCA)	0.00	ND	ND
Cannabichromene (CBC)	0.00	ND	ND
Total Cannabinoids		0.07	0.7
Total Potential THC**		ND	ND
Total Potential CBD**		0.07	0.7

NOTES:

N/A

% = % (w/w) = Percent (Weight of Analyte / Weight of Product)
 * Total Cannabinoids result reflects the absolute sum of all cannabinoids detected.
 ** 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))
 ND = None Detected (Defined by Dynamic Range of the method)

FINAL APPROVAL

	Daniel Weidensaul 2-Oct-2020 5:22 PM		Scott Hansen 2-Oct-2020 7:29 PM
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PREPARED BY / DATE

APPROVED BY / DATE

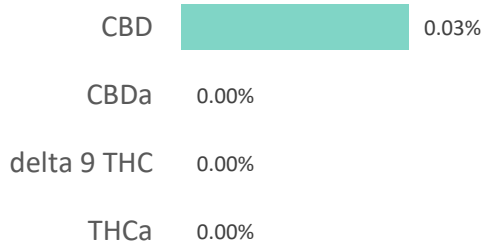
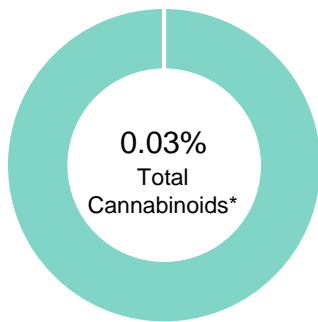
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Certificate #4329.02

Milky Turmeric

Batch ID:		Test ID:	T000099593
Reported:	2-Oct-2020	Method:	TM14
Type:	Concentrate		
Test:	Potency		

CANNABINOID PROFILE




Compound	LOQ (%)	Result (%)	Result (mg/g)
Delta 9-Tetrahydrocannabinolic acid (THCA-A)	0.00	ND	ND
Delta 9-Tetrahydrocannabinol (Delta 9THC)	0.00	ND	ND
Cannabidiolic acid (CBDA)	0.00	ND	ND
Cannabidiol (CBD)	0.00	0.03	0.3
Delta 8-Tetrahydrocannabinol (Delta 8THC)	0.00	ND	ND
Cannabinolic Acid (CBNA)	0.00	ND	ND
Cannabinol (CBN)	0.00	ND	ND
Cannabigerolic acid (CBGA)	0.00	ND	ND
Cannabigerol (CBG)	0.00	ND	ND
Tetrahydrocannabivarinic Acid (THCVA)	0.00	ND	ND
Tetrahydrocannabivarin (THCV)	0.00	ND	ND
Cannabidivarinic Acid (CBDVA)	0.00	ND	ND
Cannabidivarin (CBDV)	0.00	ND	ND
Cannabichromenic Acid (CBCA)	0.00	ND	ND
Cannabichromene (CBC)	0.00	ND	ND
Total Cannabinoids		0.03	0.3
Total Potential THC**		ND	ND
Total Potential CBD**		0.03	0.3

NOTES:

N/A

% = % (w/w) = Percent (Weight of Analyte / Weight of Product)
 * Total Cannabinoids result reflects the absolute sum of all cannabinoids detected.
 ** 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))
 ND = None Detected (Defined by Dynamic Range of the method)

FINAL APPROVAL

	Daniel Weidensaul 2-Oct-2020 5:22 PM		Scott Hansen 2-Oct-2020 7:29 PM
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PREPARED BY / DATE

APPROVED BY / DATE

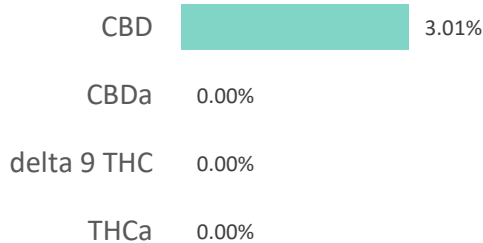
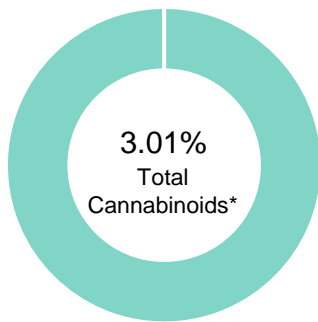
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Certificate #4329.02

Pressure Oil Roller

Batch ID:		Test ID:	T000099594
Reported:	2-Oct-2020	Method:	TM14
Type:	Concentrate		
Test:	Potency		

CANNABINOID PROFILE




Compound	LOQ (%)	Result (%)	Result (mg/g)
Delta 9-Tetrahydrocannabinolic acid (THCA-A)	0.02	ND	ND
Delta 9-Tetrahydrocannabinol (Delta 9THC)	0.01	ND	ND
Cannabidiolic acid (CBDA)	0.00	ND	ND
Cannabidiol (CBD)	0.01	3.01	30.1
Delta 8-Tetrahydrocannabinol (Delta 8THC)	0.01	ND	ND
Cannabinolic Acid (CBNA)	0.02	ND	ND
Cannabinol (CBN)	0.01	ND	ND
Cannabigerolic acid (CBGA)	0.01	ND	ND
Cannabigerol (CBG)	0.01	ND	ND
Tetrahydrocannabivarinic Acid (THCVA)	0.01	ND	ND
Tetrahydrocannabivarin (THCV)	0.01	ND	ND
Cannabidivarinic Acid (CBDVA)	0.00	ND	ND
Cannabidivarin (CBDV)	0.00	ND	ND
Cannabichromenic Acid (CBCA)	0.01	ND	ND
Cannabichromene (CBC)	0.01	ND	ND
Total Cannabinoids		3.01	30.1
Total Potential THC**		ND	ND
Total Potential CBD**		3.01	30.1

NOTES:

N/A

% = % (w/w) = Percent (Weight of Analyte / Weight of Product)
 * Total Cannabinoids result reflects the absolute sum of all cannabinoids detected.
 ** 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))
 ND = None Detected (Defined by Dynamic Range of the method)

FINAL APPROVAL

	Daniel Weidensaul 2-Oct-2020 5:22 PM		Scott Hansen 2-Oct-2020 7:29 PM
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Certificate #4329.02

✱
UTAH
CANNABIS
CO™

Batch ID: 495111

Product Name: CBD Muscle Rub 500mg.

Batch Date: 02/15/20

Expiration Date: 02/15/22

Batch Size: 250

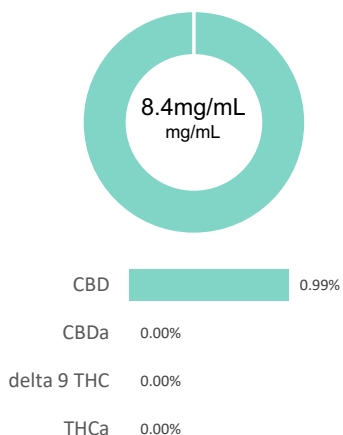
Total Quantity Produced: 250

SCROLL DOWN FOR COA



CBD Muscle Rub

Batch ID:	49511	Test ID:	3865064.0014
Reported:	16-Jun-2020	Method:	TM14
Type:	Solution		
Test:	Potency		

CANNABINOID PROFILE


Compound	LOQ (mg/mL)	Result (mg/mL)	Result (mg/g)
Delta 9-Tetrahydrocannabinolic acid (THCA-A)	0.25	ND	ND
Delta 9-Tetrahydrocannabinol (Delta 9THC)	0.12	ND	ND
Cannabidiolic acid (CBDA)	0.10	ND	ND
Cannabidiol (CBD)	0.06	8.40	9.9
Delta 8-Tetrahydrocannabinol (Delta 8THC)	0.14	ND	ND
Cannabinolic Acid (CBNA)	0.34	ND	ND
Cannabinol (CBN)	0.15	ND	ND
Cannabigerolic acid (CBGA)	0.22	ND	ND
Cannabigerol (CBG)	0.12	ND	ND
Tetrahydrocannabivarinic Acid (THCVA)	0.21	ND	ND
Tetrahydrocannabivarin (THCV)	0.11	ND	ND
Cannabidivarinic Acid (CBDVA)	0.09	ND	ND
Cannabidivarin (CBDV)	0.05	ND	ND
Cannabichromenic Acid (CBCA)	0.19	ND	ND
Cannabichromene (CBC)	0.22	ND	ND
Total Cannabinoids		8.40	9.93
Total Potential THC**		ND	ND
Total Potential CBD**		8.40	9.93

NOTES:

Density = 0.843g/mL

N/A

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


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

** 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))

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

FINAL APPROVAL

	Michelle Gagnon 16-Jun-2020 11:32 AM		Ben Minton 16-Jun-2020 1:12 PM
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PREPARED BY / DATE

APPROVED BY / DATE

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Certificate #4329.02



CERTIFICATE OF ANALYSIS

prepared for: UTAH CANNABIS CO.
129 E. 13800 S. SUITE B-2#236
DRAPER, UT 84020

CBD Muscle Rub

Batch ID:	49511	Test ID:	T000080548
Reported:	15-Jun-2020	Method:	Topical - Test Methods: TM05, TM06
Type:	Topical		
Test:	Microbial Contaminants		

MICROBIAL CONTAMINANTS

Contaminant	Result (CFU/g)*
Total Aerobic Count**	None Detected
Total Coliforms**	None Detected
Total Yeast and Molds**	None Detected
E. coli	None Detected
Salmonella	None Detected

* CFU/g = Colony Forming Unit per Gram

** Values recorded in scientific notation, a common microbial practice of expressing numbers that are too large to be conveniently written in decimal form.

Examples: 10² = 100 CFU
10³ = 1,000 CFU
10⁴ = 10,000 CFU
10⁵ = 100,000 CFU

NOTES:

Free from visual mold, mildew, and foreign matter
TYM: None Detected
Total Aerobic: None Detected
Coliforms: None Detected

FINAL APPROVAL

	Robert Belfon 15-Jun-2020 2:19 PM		Greg Zimpfer 15-Jun-2020 4:50 PM
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PREPARED BY / DATE

APPROVED BY / DATE

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Certificate #4329.03



CERTIFICATE OF ANALYSIS

prepared for: UTAH CANNABIS CO.
129 E. 13800 S. SUITE B-2#236
DRAPER, UT 84020

CBD Muscle Rub

Batch ID:	49511	Test ID:	T000080547
Reported:	15-Jun-2020	Method:	TM04
Type:	Concentrate		
Test:	Residual Solvents		

RESIDUAL SOLVENTS

Solvent	Dynamic Range (ppm)	Result (ppm)
Propane	92 - 1850	*ND
Butanes (Isobutane, n-Butane)	159 - 3177	*ND
Methanol	64 - 1282	*ND
Pentane	90 - 1794	*ND
Ethanol	95 - 1904	*ND
Acetone	98 - 1964	*ND
Isopropyl Alcohol	112 - 2242	*ND
Hexane	6 - 120	*ND
Ethyl Acetate	102 - 2040	*ND
Benzene	0.2 - 3.9	*ND
Heptanes	91 - 1830	*ND
Toluene	18 - 360	*ND
Xylenes (m,p,o-Xylenes)	131 - 2620	*ND


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

NOTES:
N/A

FINAL APPROVAL


Ryan Weems
15-Jun-2020
4:00 PM

PREPARED BY / DATE


Greg Zimpfer
15-Jun-2020
4:07 PM

APPROVED BY / DATE

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Certificate #4329.02



CERTIFICATE OF ANALYSIS

prepared for: UTAH CANNABIS CO.
129 E. 13800 S. SUITE B-2#236
DRAPER, UT 84020

CBD Muscle Rub


Batch ID:	49511	Test ID:	T000080550
Reported:	17-Jun-2020	Method:	TM19
Type:	Other		
Test:	Metals		


HEAVY METALS

Analyte	Dynamic Range (ppm)	Result (ppm)
Arsenic	0.109 - 10.90	ND
Cadmium	0.106 - 10.60	ND
Mercury	0.110 - 11.00	ND
Lead	0.106 - 10.60	ND

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

FINAL APPROVAL


PREPARED BY / DATE
Ryan Weems
17-Jun-2020
2:52 PM


APPROVED BY / DATE
Greg Zimpher
17-Jun-2020
7:43 PM

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CERTIFICATE OF ANALYSIS

prepared for: UTAH CANNABIS CO.
129 E. 13800 S. SUITE B-2#236
DRAPER, UT 84020

CBD Muscle Rub


Batch ID:	49511	Test ID:	3012800.0035
Reported:	17-Jun-2020	Method:	TM17
Type:	Concentrate		
Test:	Pesticides		

PESTICIDE RESIDUE

Compound	Dynamic Range (ppb)	Result (ppb)	Compound	Dynamic Range (ppb)	Result (ppb)
Acephate	56 - 2581	ND*	Malathion	334 - 2581	ND*
Acetamiprid	56 - 2581	ND*	Metalaxyl	56 - 2581	ND*
Abamectin	>334	ND*	Methiocarb	56 - 2581	ND*
Azoxystrobin	56 - 2581	ND*	Methomyl	56 - 2581	ND*
Bifenazate	56 - 2581	ND*	MGK 264 1	334 - 2581	ND*
Boscalid	56 - 2581	ND*	MGK 264 2	334 - 2581	ND*
Carbaryl	56 - 2581	ND*	Myclobutanil	56 - 2581	ND*
Carbofuran	56 - 2581	ND*	Naled	56 - 2581	ND*
Chlorantraniliprole	56 - 2581	ND*	Oxamyl	56 - 2581	ND*
Chlorpyrifos	56 - 2581	ND*	Paclobutrazol	56 - 2581	ND*
Clofentazine	334 - 2581	ND*	Permethrin	334 - 2581	ND*
Diazinon	334 - 2581	ND*	Phosmet	56 - 2581	ND*
Dichlorvos	>334	ND*	Propoxur	334 - 2581	ND*
Dimethoate	56 - 2581	ND*	Propoxur	56 - 2581	ND*
E-Fenpyroximate	56 - 2581	ND*	Pyridaben	56 - 2581	ND*
Etofenprox	56 - 2581	ND*	Spinosad A	56 - 2581	ND*
Etoxadole	334 - 2581	ND*	Spinosad D	334 - 2581	ND*
Fenoxycarb	>56	ND*	Spiromesifen	>334	ND*
Fipronil	56 - 2581	ND*	Spirotetramat	>334	ND*
Flonicamid	56 - 2581	ND*	Spiroxamine 1	56 - 2581	ND*
Fludioxonil	>334	ND*	Spiroxamine 2	56 - 2581	ND*
Hexythiazox	56 - 2581	ND*	Tebuconazole	334 - 2581	ND*
Imazaill	334 - 2581	ND*	Thiacloprid	56 - 2581	ND*
Imidacloprid	56 - 2581	ND*	Thiamethoxam	56 - 2581	ND*
Kresoxim-methyl	56 - 2581	ND*	Trifloxystrobin	56 - 2581	ND*

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

FINAL APPROVAL


Tyler Wiese
17-Jun-2020
3:34 PM
PREPARED BY / DATE


Greg Zimpfer
17-Jun-2020
7:50 PM
APPROVED BY / DATE

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HPLC Analysis Report

Cannabinoid Profile Certificate of Analysis

Client: Rocky Mountain Hemp Date Received: 12-6-2019
 Sample Name: Tincture Date Tested: 12-9-2019
 Sample Matrix: Oral Tincture APRC #: RMH191206B
 Sample Lot: N/A

ID#	Cannabinoid	Ret. Time	Conc. (µg/mL)	% (w/w)	mg/g
1	Cannabidivarin (CBDV)	2.257	0.787	0.01	0.07
2	Cannabidiolic acid (CBDA)	ND	ND	N/A	N/A
3	Cannabigerolic acid (CBGA)	ND	ND	N/A	N/A
4	Cannabigerol (CBG)	3.161	0.924	0.01	0.08
5	Cannabidiol (CBD)	3.332	116.879	1.06	10.60
6	Tetrahydrocannabivarin (THCV)	<LOQ	<LOQ	N/A	N/A
7	Cannabinol (CBN)	<LOQ	<LOQ	N/A	N/A
8	Δ9-Tetrahydrocannabinol (Δ9-THC)	6.173	3.436	0.03	0.31
9	Δ8-Tetrahydrocannabinol (Δ8-THC)	<LOQ	<LOQ	N/A	N/A
10	Cannabichromene (CBC)	7.746	4.054	0.04	0.37
11	Δ9-Tetrahydrocannabinolic acid (THCA-A)	<LOQ	<LOQ	N/A	N/A

		%	mg/g
Analyzed by: <u>A. Anderson</u>	Total Cannabinoids	1.14	11.43
	Total THC [†]	0.03	0.31
Reviewed by: <u>C. Wiscombe</u>	Total CBD [‡]	1.06	10.60

[†] Total THC is calculated by Δ9-THC +(THCA-A*0.877)

[‡] Total CBD is calculated by CBD + (CBDA*0.877)

Notes: