

CERTIFICATE OF ANALYSIS

PRODUCT NAME: Certified Organic CBD Salve
PRODUCT STRENGTH: 500 mg
FILL LOT NUMBER: NA
SALVE BATCH: 21082-05
BEST BY DATE: 03/27/2023
HEMP EXTRACT LOT: [C0222-002](#)

Click on the links to view third-party reports

Physical Attributes

Test	Method	Specification	Results
Color	SOP-100	Off-white, cream color	PASS
Odor	SOP-100	Neutral scent w/hint of hemp oil, sweet beeswax	PASS
Appearance	SOP-100	Firm textured salve in white roll-on container with cap	PASS
Primary Package Eval.	SOP-132	Container clean and free of filth. Container caps tight and shrink bands intact	PASS
Secondary Package Eval.	SOP-132	Labeling Compliance Checked, Cartons sturdy and clean. Sufficient cushion material exists. Box taped and secure.	PASS

Review of Third-Party Analysis

Panel	Method	Specification	Results*	Pass/Fail
Potency - Total CBD	SOP-111	500-650mg CBD LOQ**: 10 PPM† (0.001%)	543.9 mg	PASS
Potency - D9-THC	SOP-111	None Detected LOQ: 10 PPM (0.001%)	ND	PASS
Compliant Pesticide Panel	SOP-111	WIP-100008 : Product specification for Tinctures, Oregon Action limits apply	ND	PASS
Microbial - Stec E.Coli	SOP-111	Complies with USP 61/62	Below LOQ	PASS
Microbial - Salmonella	SOP-111	Complies with USP 61/62	Below LOQ	PASS
Microbial - Yeast and Mold	SOP-111	Complies with USP 61/62	Below LOQ	PASS
CA Compliant Heavy Metal Panel	SOP-111	Arsenic (As): ≤1.5 PPM Cadmium (Cd): ≤0.5 PPM Mercury (Hg): ≤1.0 PPM Lead (Pb): ≤0.5 PPM	ND	PASS

**Level of Quantitation, † Parts Per Million

Quality Certified

Kei Horikawa

Kei Horikawa
Quality Control Manager

04/07/2021

Date

Salve 1oz OS1OZ500

Certificate of Analysis



total cannabinoids	Δ^9 -THC	THCa	total THC
575 mg	0.0 mg	0.0 mg	0.0 mg
per	CBD	CBDa	total CBD
ounce	536.3 mg	8.7 mg	543.9 mg

Lot# 21802-05 WO 055680

This Product Has Been Tested and Complies with 7USC1639o(1) Definition of Hemp



Stillwater Laboratories

https://portal.a2la.org/scopepdf/4961-01.pdf

Sample Handling

test ID	10299.1	sample wt	28.4 g
type	topical	order	10299
lab ID	1DB23	sample date	4/1/2021
unit	ounce	unit weight	28.4 g

Methods

method	equipment
weights	MSP-7.3.1.3 AUX120.1
potency	MSP-7.5.1.5 LC-2030
terpenes	MSP-7.5.1.7 QP2020/HS20
pesticides	MSP-7.5.1.8 LC-8060
mycotoxins	MSP-7.5.1.8 LC-8060
microbial	MSP-7.5.1.1 AriaMx/Hardy
solvents	MSP-7.5.1.6 QP2020/HS20
metals	MSP-7.5.1.1 ICPMS2030

topical



Potency	per	ounce	estimated error	Terpenes	%	estimated error	%	estimated error	%	estimated error
tetrahydrocannabinolic acid (THCa)	0%	0.0 mg	± 0.47 mg	terpenes not tested / not required						
Δ^9 -tetrahydrocannabinol (Δ^9 THC)	0%	0.0 mg	± 0.47 mg							
Δ^8 -tetrahydrocannabinol (Δ^8 THC)	0%	0.0 mg	± 0.47 mg							
tetrahydrocannabivarin (THCv)	0%	0.0 mg	± 0.47 mg							
cannabidiolic acid (CBDA)	.03%	8.7 mg	± 0.78 mg							
cannabidiol (CBD)	1.89%	536.3 mg	± 4.92 mg							
cannabidivarin (CBDv)	0%	1.2 mg	± 0.52 mg							
cannabigerolic acid (CBGA)	.01%	3.5 mg	± 0.61 mg							
cannabigerol (CBG)	.09%	25.5 mg	± 1.17 mg							
cannabinol (CBN)	0%	0.0 mg	± 0.47 mg							
cannabichromene (CBC)	0%	0.0 mg	± 0.47 mg							

Solvents	MT limit	1DB23	LOQ	Pesticides (MT)	MT limit	1DB23	LOQ	Pesticides (other)	1DB23	LOQ
				abamectin	0.00 ppm	<10ppb		acephate	0.00 ppm	<10ppb
				acequinocyl	0.00 ppm	<10ppb		acetamiprid	0.00 ppm	<10ppb
				bifenazate	0.00 ppm	<10ppb		aldicarb	0.00 ppm	<10ppb
				bifenthrin	0.00 ppm	<10ppb		azoxystrobin	0.00 ppm	<10ppb
				chlormequat cl.	0.00 ppm	<10ppb		boscalid	0.00 ppm	<10ppb
				cyfluthrin	0.00 ppm	<80ppb		carbaryl	0.00 ppm	<10ppb
				diaminozide	0.00 ppm	<10ppb		carbofuran	0.00 ppm	<10ppb
				etoxazole	0.00 ppm	<10ppb		chlorantraniliprole	0.00 ppm	<10ppb
				fenoxycarb	0.00 ppm	<10ppb		chlorpyrifos	0.00 ppm	<10ppb
				imazalil	0.00 ppm	<10ppb		clofentazine	0.00 ppm	<10ppb
				imidacloprid	0.00 ppm	<10ppb		cypermethrin	0.00 ppm	<10ppb
				myclobutanil	0.00 ppm	<10ppb		diazinon	0.00 ppm	<10ppb
				paclobutrazol	0.00 ppm	<10ppb		dichlorvos	0.00 ppm	<10ppb
				pyrethrins	0.00 ppm	<10ppb		dimethoate	0.00 ppm	<10ppb
				spinosad	0.00 ppm	<10ppb		etofenprox	0.00 ppm	<10ppb
				spiromesifen	0.00 ppm	<10ppb		fenpyroximate	0.00 ppm	<10ppb
				spirotetramat	0.00 ppm	<10ppb		fipronil	0.00 ppm	<10ppb
				trifloxystrobin	0.00 ppm	<10ppb		flonicamid	0.00 ppm	<10ppb

Toxic Metals	MT limit	1DB23	LOQ
arsenic	2 ppm	0.0 ppm	<10ppb
cadmium	4.1 ppm	0.0 ppm	<10ppb
lead	1.2 ppm	0.0 ppm	<10ppb
mercury	0.4 ppm	0.0 ppm	<10ppb

Microbial	MT limit	1DB23	LOQ
<i>E. coli</i>	10 CFU	0 CFU	<10 CFU/g
Salmonella sp.	10 CFU	0 CFU	<10 CFU/g
molds	10000 CFU	0 CFU	<10k CFU/g
Aflatoxin B1,B2,G1,G2	20 ppb	0 ppb	<20 ppb
Ochratoxin A	20 ppb	0 ppb	<20 ppb

Comments

All testing was completed onsite at 6073 US93N, Olney MT. Potency (cannabinoid concentration) is calculated from the equation: [cannabinoid] = [cannabinoid]_{HPLC} x volume_{dilution}/m_{dry}. Terpene concentration is calculated from the equation: [terpene] = (terpene mass)_{GCMS} / m_{dry}. Decarboxyted cannabinoid concentration is calculated from the equation XXX_{total} = 0.877 x XXX_a + XXX. Standards are used to calibrate the resulting data and estimate error using a standard estimate of error method; this is combined with error from weighing and dilution using the propagation of error formula s_g² = Σ (∂f/∂i)² s_i² where i is the contributor to error. The 95% confidence range is calculated from the equation: (concentration) ± t_{CL90} x s_g. Sampling error is not

Certified by:

Kyle Larson, MSc (Biology)
Deputy Director
6073 US93N, Olney MT 59927
406-881-2019 rdb@stwlabs.com

propiconazole	0.00 ppm	<10ppb
pyridaben	0.00 ppm	<10ppb
spiroxamine	0.00 ppm	<10ppb
tebuconazole	0.00 ppm	<10ppb
thiacloprid	0.00 ppm	<10ppb
thiamethoxam	0.00 ppm	<10ppb



CO222-002

7USC1639 Certificate of Analysis

man. date 2/24/2021
total cannabinoids 85.36%
THC total ND
CBD total 80.02%
terpenes 0.073%

Stillwater Laboratories

certificate ID 1BU31

order 9927

analysis date 2/24/2021 1:09:31 PM

test tag S1BXU

sample wgt 1.0 g

Inspection MSP-7.5.1.2

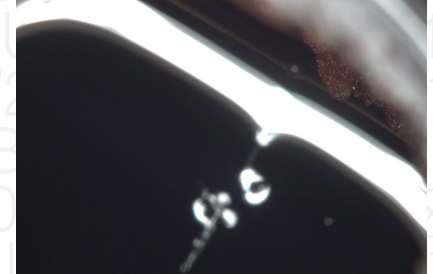
DESCRIPTION: Concentrate sample (1.00g) received in a client-labeled bottle, collected at dispensary/grow. 1 and sample tag S1BXU.

caryophyllene
humulene
terpinolene
ocimene
beta pinene
alpha pinene
limonene
myrcene
linalool

HERBAL



extract



FLORAL

Potency per

MSP-7.5.1.4 LOD LOQ error (95%CI k=2)

Table with 4 columns: Compound, ND, LOD, LOQ, error. Rows include tetrahydrocannabinolic acid (THCa), delta-9-tetrahydrocannabinol (delta 9 THC), delta-8-tetrahydrocannabinol (delta 8 THC), etc.

Terpenes

MSP-7.5.1.6

MSP-7.5.1.6

Table with 3 columns: Compound, Value, Value. Rows include linalool, beta-myrcene, D-limonene, alpha-pinene, beta-pinene, etc.

‡ = decarbed NT = not tested NL = no limit, ND = not detected, LOD = detection limit, LOQ = quantitation limit

Microbial

MSP-7.5.1.10

limit

Metals

MSP-7.5.1.11

limit

Pesticides

MSP-7.5.1.8

limit

Pesticides

MSP-7.5.1.8

limit

Large table with 4 main sections: Microbial, Metals, Pesticides, and Solvents. Each section contains a list of substances and their test results (PASS, FAIL, etc.) with associated limits.

INSTRUMENTS
potency: HPLC (LC2030C-UV)
terpenes: GCMS (QP2020/HS20)
solvents: GCMS (QP2020/HS20)
pesticides: LCMSMS (LC8060)
mycotoxins: LCMSMS (LC8060)
microbial: qPCR (AriaMx) and plating
metals: ICPMS (ICPMS-2030)

SECURITY FEATURE: WATERMARK MUST MATCH CERTIFICATE ID AND ISSUE DATE

Certified by:

Signature of Justin M Johnston

Justin M Johnston
Deputy Director

Stillwater Laboratories Inc.
MT License L00001, 7, 8
6073 US93N Suite 5
Olney MT 59927
406-881-2019

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https://portal.a2la.org/scopepdf/4961-01.pdf

CERTIFICATE OF ANALYSIS

PRODUCT NAME: Certified Organic CBD Salve
PRODUCT STRENGTH: 1000 mg
FILL LOT NUMBER: NA
SALVE BATCH: 21082-05
BEST BY DATE: 03/27/2023
HEMP EXTRACT LOT **C0222-002**

Click on the links to view third-party reports

Physical Attributes

Test	Method	Specification	Results
Color	SOP-100	Off-white, cream color	PASS
Odor	SOP-100	Neutral scent w/hint of hemp oil, sweet beeswax	PASS
Appearance	SOP-100	Firm textured salve in white roll-on container with cap	PASS
Primary Package Eval.	SOP-132	Container clean and free of filth. Container caps tight and shrink bands intact	PASS
Secondary Package Eval.	SOP-132	Labeling Compliance Checked, Cartons sturdy and clean. Sufficient cushion material exists. Box taped and secure.	PASS

Review of Third-Party Analysis

Panel	Method	Specification	Results*	Pass/Fail
Potency - Total CBD	SOP-111	1000-1300mg CBD LOQ**: 10 PPM† (0.001%)	1122.3 mg	PASS
Potency - D9-THC	SOP-111	None Detected LOQ: 10 PPM (0.001%)	ND	PASS
Compliant Pesticide Panel	SOP-111	WIP-100008 : Product specification for Tinctures, Oregon Action limits apply	ND	PASS
Microbial - Stec E.Coli	SOP-111	Complies with USP 61/62	Below LOQ	PASS
Microbial - Salmonella	SOP-111	Complies with USP 61/62	Below LOQ	PASS
Microbial - Yeast and Mold	SOP-111	Complies with USP 61/62	Below LOQ	PASS
CA Compliant Heavy Metal Panel	SOP-111	Arsenic (As): ≤1.5 PPM Cadmium (Cd): ≤0.5 PPM Mercury (Hg): ≤1.0 PPM Lead (Pb): ≤0.5 PPM	ND	PASS

**Level of Quantitation, † Parts Per Million

Quality Certified


 Kei Horikawa
 Quality Control Manager

04/07/2021

Date

Salve 2oz OS2OZ1000

Certificate of Analysis



total cannabinoids	Δ^9 -THC	THCa	total THC
1190 mg	0.0 mg	0.0 mg	0.0 mg
per	CBD	CBDa	total CBD
2oz	1106.5 mg	18.1 mg	1122.3 mg

Lot# 21082-05 WO 055682

This Product Has Been Tested and Complies with 7USC1639o(1) Definition of Hemp



Stillwater Laboratories

<https://portal.a2la.org/scopepdf/4961-01.pdf>

Sample Handling

test ID	10299.3.	sample wt	
type	topical	order	10299
lab ID	1DB25	sample date	4/1/2021
unit	2oz	unit weight	56.8 g

topical



Methods

	method	equipment
weights	MSP-7.3.1.3	AUX120.1
potency	MSP-7.5.1.5	LC-2030
terpenes	MSP-7.5.1.7	QP2020/HS20
pesticides	MSP-7.5.1.8	LC-8060
mycotoxins	MSP-7.5.1.8	LC-8060
microbial	MSP-7.5.1.1	AriaMx/Hardy
solvents	MSP-7.5.1.6	QP2020/HS20
metals	MSP-7.5.1.1	ICPMS2030

Potency	per	2oz	estimated error	Terpenes	%	estimated error	%	estimated error	%	estimated error
tetrahydrocannabinolic acid (THCa)	0%	0.0 mg	± 0.93 mg	terpenes not tested / not required						
Δ^9 -tetrahydrocannabinol (Δ^9 THC)	0%	0.0 mg	± 0.93 mg							
Δ^8 -tetrahydrocannabinol (Δ^8 THC)	0%	0.0 mg	± 0.93 mg							
tetrahydrocannabivarin (THCv)	0%	0.0 mg	± 0.93 mg							
cannabidiolic acid (CBDa)	.03%	18.1 mg	± 1.58 mg							
cannabidiol (CBD)	1.95%	1106.5 mg	± 9.99 mg							
cannabidivarin (CBDv)	0%	2.1 mg	± 1.03 mg							
cannabigerolic acid (CBGa)	.01%	8.3 mg	± 1.27 mg							
cannabigerol (CBG)	.1%	54.6 mg	± 2.40 mg							
cannabinol (CBN)	0%	0.0 mg	± 0.93 mg							
cannabichromene (CBC)	0%	0.0 mg	± 0.93 mg							

Solvents	MT limit	1DB25	LOQ	Pesticides (MT)	MT limit	1DB25	LOQ	Pesticides (other)	1DB25	LOQ
				abamectin	0.00 ppm	<10ppb		acephate	0.00 ppm	<10ppb
				acequinocyl	0.00 ppm	<10ppb		acetamiprid	0.00 ppm	<10ppb
				bifenazate	0.00 ppm	<10ppb		aldicarb	0.00 ppm	<10ppb
				bifenthrin	0.00 ppm	<10ppb		azoxystrobin	0.00 ppm	<10ppb
				chlormequat cl.	0.00 ppm	<10ppb		boscalid	0.00 ppm	<10ppb
				cyfluthrin	0.00 ppm	<80ppb		carbaryl	0.00 ppm	<10ppb
				diaminozide	0.00 ppm	<10ppb		carbofuran	0.00 ppm	<10ppb
				etoxazole	0.00 ppm	<10ppb		chlorantraniliprole	0.00 ppm	<10ppb
				fenoxycarb	0.00 ppm	<10ppb		chlorpyrifos	0.00 ppm	<10ppb
				imazalil	0.00 ppm	<10ppb		clofentezine	0.00 ppm	<10ppb
				imidacloprid	0.00 ppm	<10ppb		cypermethrin	0.00 ppm	<10ppb
				myclobutanil	0.00 ppm	<10ppb		diazinon	0.00 ppm	<10ppb
				paclobutrazol	0.00 ppm	<10ppb		dichlorvos	0.00 ppm	<10ppb
				pyrethrins	0.00 ppm	<10ppb		dimethoate	0.00 ppm	<10ppb
				spinosad	0.00 ppm	<10ppb		etofenprox	0.00 ppm	<10ppb
				spiromesifen	0.00 ppm	<10ppb		fenpyroximate	0.00 ppm	<10ppb
				spirotetramat	0.00 ppm	<10ppb		fipronil	0.00 ppm	<10ppb
				trifloxystrobin	0.00 ppm	<10ppb		flonicamid	0.00 ppm	<10ppb

Toxic Metals	MT limit	1DB25	LOQ
arsenic	2 ppm	0.0 ppm	<10ppb
cadmium	4.1 ppm	0.0 ppm	<10ppb
lead	1.2 ppm	0.0 ppm	<10ppb
mercury	0.4 ppm	0.0 ppm	<10ppb

Microbial	MT limit	1DB25	LOQ
<i>E. coli</i>	10 CFU	0 CFU	<10 CFU/g
Salmonella sp.	10 CFU	0 CFU	<10 CFU/g
molds	10000 CFU	0 CFU	<10k CFU/g
Aflatoxin B1,B2,G1,G2	20 ppb	0 ppb	<20 ppb
Ochratoxin A	20 ppb	0 ppb	<20 ppb

Comments

All testing was completed onsite at 6073 US93N, Olney MT. Potency (cannabinoid concentration) is calculated from the equation: [cannabinoid] = [cannabinoid]_{HPLC} x volume_{dilution}/m_{dry}. Terpene concentration is calculated from the equation: [terpene] = (terpene mass)_{GCMS} / m_{dry}. Decarboxyted cannabinoid concentration is calculated from the equation XXX_{total} = 0.877 x XXX_a + XXX. Standards are used to calibrate the resulting data and estimate error using a standard estimate of error method; this is combined with error from weighing and dilution using the propagation of error formula s_g² = Σ (∂f/∂i)² s_i² where i is the contributor to error. The 95% confidence range is calculated from the equation: (concentration) ± t_{CL90} x s_g. Sampling error is not

Certified by:

Kyle Larson, MSc (Biology)
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406-881-2019 rdb@stwlabs.com

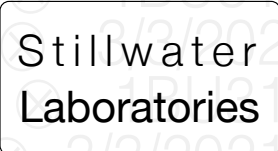
hexythiazox	0.00 ppm	<10ppb
kresoxym-methyl	0.00 ppm	<10ppb
malathion	0.00 ppm	<10ppb
metalaxyl	0.00 ppm	<10ppb
methiocarb	0.00 ppm	<10ppb
methomyl	0.00 ppm	<10ppb
oxamyl	0.00 ppm	<10ppb
permethrins	0.00 ppm	<10ppb
phosmet	0.00 ppm	<10ppb
piperonyl butoxide	0.00 ppm	<10ppb
prallethrin	0.00 ppm	<10ppb
propiconazole	0.00 ppm	<10ppb
pyridaben	0.00 ppm	<10ppb
spiroxamine	0.00 ppm	<10ppb
tebuconazole	0.00 ppm	<10ppb
thiacloprid	0.00 ppm	<10ppb
thiamethoxam	0.00 ppm	<10ppb



CO222-002

7USC1639 Certificate of Analysis

man. date 2/24/2021
total cannabinoids 85.36%
THC total ND
CBD total 80.02%
terpenes 0.073%



certificate ID 1BU31

order 9927
analysis date 2/24/2021 1:09:31 PM
test tag S1BXU
sample wgt 1.0 g

Inspection MSP-7.5.1.2

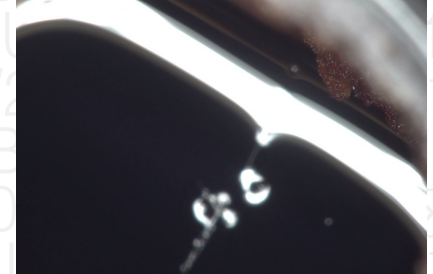
DESCRIPTION: Concentrate sample (1.00g) received in a client-labeled bottle, collected at dispensary/grow. 1 and sample tag S1BXU.

- caryophyllene
humulene
terpinolene
ocimene
beta pinene
alpha pinene
limonene
myrcene
linalool

HERBAL



extract



FLORAL

Potency per

Table with columns: Compound, MSP-7.5.1.4, LOD, LOQ, error (95%CI k=2). Rows include tetrahydrocannabinolic acid (THCa), delta-9-tetrahydrocannabinol (delta 9 THC), delta-8-tetrahydrocannabinol (delta 8 THC), etc.

Terpenes

Table with columns: Compound, MSP-7.5.1.6, limit. Rows include linalool, beta-myrcene, D-limonene, alpha-pinene, beta-pinene, etc.

‡ = decarbed NT = not tested NL = no limit, ND = not detected, LOD = detection limit, LOQ = quantitation limit

Large table with columns: Microbial, Metals, Pesticides, Solvents. Each column contains a list of substances and their test results (PASS, FAIL, etc.) with associated limits.

INSTRUMENTS
potency: HPLC (LC2030C-UV)
terpenes: GCMS (QP2020/HS20)
solvents: GCMS (QP2020/HS20)
pesticides: LCMSMS (LC8060)
mycotoxins: LCMSMS (LC8060)
microbial: qPCR (AriaMx) and plating
metals: ICPMS (ICPMS-2030)

SECURITY FEATURE: WATERMARK MUST MATCH CERTIFICATE ID AND ISSUE DATE

Certified by:
Justin M Johnston
Deputy Director

Stillwater Laboratories Inc.
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6073 US93N Suite 5
Olney MT 59927
406-881-2019

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ISO/IEC 17025:2017
Certificate #4961.01
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