

# CERTIFICATE OF ANALYSIS



**PRODUCT NAME:** Certified Organic CBD Salve  
**PRODUCT STRENGTH:** 500 mg  
**FILL LOT NUMBER:** 20279-11  
**BEST BY DATE:** 10/08/2022  
**HEMP EXTRACT LOT:** B0914-001

*\*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
<b>Potency - Total CBD</b>	SOP-111	500-650mg CBD LOQ**: 10 PPM† (0.001%)	<b>514.5 mg</b>	PASS
<b>Potency - D9-THC</b>	SOP-111	None Detected LOQ: 10 PPM (0.001%)	<b>ND</b>	PASS
<b>Compliant Pesticide Panel</b>	SOP-111	WIP-100008 : Product specification for Tinctures, Oregon Action limits apply	<b>ND</b>	PASS
<b>Microbial - Stec E.Coli</b>	SOP-111	Complies with USP 61/62	<b>Below LOQ</b>	PASS
<b>Microbial - Salmonella</b>	SOP-111	Complies with USP 61/62	<b>Below LOQ</b>	PASS
<b>Microbial - Yeast and Mold</b>	SOP-111	Complies with USP 61/62	<b>Below LOQ</b>	PASS
<b>CA Compliant Heavy Metal Panel</b>	SOP-111	Arsenic (As): ≤1.5 PPM Cadmium (Cd): ≤0.5 PPM Mercury (Hg): ≤1.0 PPM Lead (Pb): ≤0.5 PPM	<b>ND</b>	PASS

\*\*Level of Quantitation, † Parts Per Million

Quality Certified

*Kei Horikawa*

Kei Horikawa  
Quality Control Manager

10/20/2022

Date



total cannabinoids	$\Delta^9$ -THC	THCa	total THC
<b>527 mg</b>	0.0 mg	0.0 mg	0.0 mg
per	CBD	CBDa	total CBD
<b>ounce</b>	514.5 mg	0.0 mg	514.5 mg

Lot# 20279-11

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



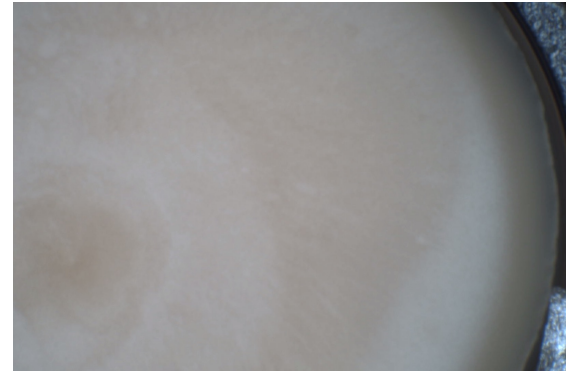
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<https://portal.a2la.org/scopepdf/4961-01.pdf>

Sample Handling

test ID	sample wt	28.4 g
type	order	8571
lab ID	sample date	10/8/2020
unit	unit weight	28.4 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 ounce	estimated error	Terpenes	%	estimated error	%	estimated error	%	estimated error
tetrahydrocannabinolic acid (THCa)	0%	0.0 mg	terpenes not tested / not required		± 0.47 mg				
$\Delta^9$ -tetrahydrocannabinol ( $\Delta^9$ THC)	0%	0.0 mg		± 0.47 mg					
$\Delta^8$ -tetrahydrocannabinol ( $\Delta^8$ THC)	0%	0.0 mg		± 0.47 mg					
tetrahydrocannabivarin (THCv)	0%	0.0 mg		± 0.47 mg					
cannabidiolic acid (CBDa)	0%	0.0 mg		± 0.47 mg					
cannabidiol (CBD)	1.81%	514.5 mg		± 3.59 mg					
cannabidivarin (CBDv)	0%	0.0 mg		± 0.47 mg					
cannabigerolic acid (CBGa)	0%	0.0 mg		± 0.47 mg					
cannabigerol (CBG)	.05%	12.9 mg		± 0.73 mg					
cannabinol (CBN)	0%	0.0 mg		± 0.47 mg					
cannabichromene (CBC)	0%	0.0 mg	± 0.47 mg						

Solvents	MT limit	0KF98	LOQ	Pesticides (MT)	MT limit	0KF98	LOQ	Pesticides (other)	0KF98	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	0KF98	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	0KF98	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]<sub>HPLC</sub> x volume<sub>dilution</sub>/m<sub>dry</sub>. Terpene concentration is calculated from the equation: [terpene] = (terpene mass)<sub>GCMS</sub> / m<sub>dry</sub>. Decarboxyted cannabinoid concentration is calculated from the equation XXX<sub>total</sub> = 0.877 x XXX<sub>a</sub> + 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<sub>g</sub><sup>2</sup> = Σ (∂f/∂i)<sup>2</sup> s<sub>i</sub><sup>2</sup> where i is the contributor to error. The 95% confidence range is calculated from the equation: (concentration) ± t<sub>CL90</sub> x s<sub>g</sub>. Sampling error is not

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Deputy Director  
6073 US93N, Olney MT 59927  
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



total cannabinoids		CBD	THC
		total 84.4%	0.0%
<b>86.4%</b>	decarb total	84.23%	0%
24643			

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

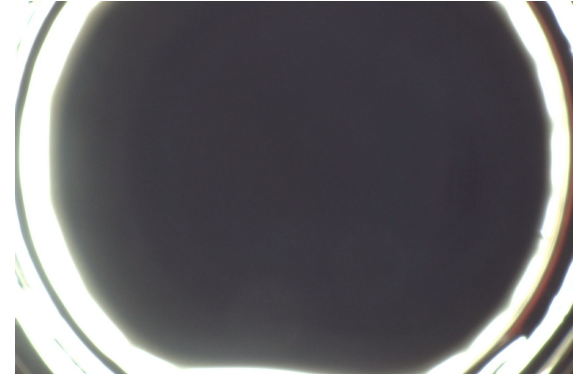
Sample Handling

test ID sample date 9/15/20 2:05 PM  
 order 8356 labID OJK39 weight  
 source

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 RTPCR
solvents MSP-7.5.1.6	QP2020/HS20
metals MSP-7.5.1.11	ICPMS2030

concentrate



Potency

	%	estimated error
tetrahydrocannabinolic acid (THCa)	0%	± 0.02 %
Δ <sup>9</sup> -tetrahydrocannabinol (Δ <sup>9</sup> THC)	0%	± 0.02 %
Δ <sup>8</sup> -tetrahydrocannabinol (Δ <sup>8</sup> THC)	0%	± 0.02 %
tetrahydrocannabivarin (THCv)	0%	± 0.02 %
cannabidiolic acid (CBDa)	1.22%	± 0.09 %
cannabidiol (CBD)	83.16%	± 0.74 %
cannabidivarin (CBDv)	.51%	± 0.06 %
cannabigerolic acid (CBGa)	0%	± 0.02 %
cannabigerol (CBG)	1.51%	± 0.10 %
cannabinol (CBN)	0%	± 0.02 %
cannabichromene (CBC)	0%	± 0.02 %

Terpenes

terpenes not tested / not required

Solvents

MT limit	OJK39	LOQ
propane 5,000	PASS	<10ppm
butanes 5,000	PASS	<10ppm
pentanes 5,000	PASS	<10ppm
hexanes 290	PASS	<10ppm
cyclohexane 3,880	PASS	<10ppm
heptanes 5,000	PASS	<10ppm
methanol 3,000	PASS	<10ppm
isopropanol 5,000	PASS	<10ppm
acetone 5,000	PASS	<10ppm
ethyl acetate 5,000	PASS	<10ppm
benzene 2	PASS	<0.2ppm
toluene 890	PASS	<10ppm
xylenes 2,170	PASS	<10ppm
chloroform 2	PASS	<0.2ppm
dichloromethane 600	PASS	<10ppm
acetonitrile NA	N/A	<10ppm
ethanol NA	N/A	<10ppm
tetrahydrofuran NA	N/A	<10ppm

Pesticides (MT)

MT limit	OJK39	LOQ
abamectin 2.50 ppm	PASS	<10ppb
acequinocyl 10.00 ppm	PASS	<10ppb
bifenazate 1.00 ppm	PASS	<10ppb
bifenthrin 1.00 ppm	PASS	<10ppb
chlormequat cl. 5.00 ppm	PASS	<10ppb
cyfluthrin 5.00 ppm	PASS	<80ppb
diaminozide 5.00 ppm	PASS	<10ppb
etoxazole 1.00 ppm	PASS	<10ppb
fenoxycarb 1.00 ppm	PASS	<10ppb
imazalil 1.00 ppm	PASS	<10ppb
imidacloprid 2.00 ppm	PASS	<10ppb
myclobutanil 0.60 ppm	PASS	<10ppb
paclobutrazol 2.00 ppm	PASS	<10ppb
pyrethrins 5.00 ppm	PASS	<10ppb
spinosad 1.00 ppm	PASS	<10ppb
spiromesifen 1.00 ppm	PASS	<10ppb
spirotetramat 1.00 ppm	PASS	<10ppb
trifloxystrobin 1.00 ppm	PASS	<10ppb

Pesticides (other)

OJK39	LOQ
acephate 0.00 ppm	<10ppb
acetamiprid 0.00 ppm	<10ppb
aldicarb 0.00 ppm	<10ppb
azoxystrobin 0.00 ppm	<10ppb
boscalid 0.00 ppm	<10ppb
carbaryl 0.00 ppm	<10ppb
carbofuran 0.00 ppm	<10ppb
chlorantraniliprole 0.00 ppm	<10ppb
chlorpyrifos 0.00 ppm	<10ppb
clofentezine 0.00 ppm	<10ppb
cypermethrin 0.00 ppm	<10ppb
diazinon 0.00 ppm	<10ppb
dichlorvos 0.00 ppm	<10ppb
dimethoate 0.00 ppm	<10ppb
etofenprox 0.00 ppm	<10ppb
fenpyroximate 0.00 ppm	<10ppb
fipronil 0.00 ppm	<10ppb
flonicamid 0.00 ppm	<10ppb
fludioxonil 0.00 ppm	<10ppb
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

Toxic Metals

MT limit	OJK39	LOQ
arsenic 2 ppm	PASS	<10ppb
cadmium 4.1 ppm	PASS	<10ppb
lead 1.2 ppm	PASS	<10ppb
mercury 0.4 ppm	PASS	<10ppb

Microbial

MT limit	OJK39	LOQ
Aflatoxin B1,B2,G1,G2 20 ppb	PASS	<20 ppb
Ochratoxin A 20 ppb	PASS	<20 ppb

microbial not tested

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