

CERTIFICATE OF ANALYSIS

PRODUCT NAME: CBD 1 oz Salve
PRODUCT STRENGTH: 500mg
LOT NUMBER: 0352020-1
BEST BY DATE: 08/10/2021
HEMP EXTRACT LOT NUMBER*: [112619](#)

Click on the links to view third-party reports

Physical Attributes

Test	Method	Specification	Results
Color	SOP-100	Light off white to yellow opaque, hint of green	PASS
Odor	SOP-100	Lavender, eucalyptus, hint of beeswax and coconut	PASS
Appearance	SOP-100	Firm, semi-waxy salve in container with screw lid	PASS
Primary Package Eval.	SOP-132	Container clean and free of filth. Container caps tight and pressure seal 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	475-625 mg CBD LOQ*: 10 PPM† (0.001%)	504.3mg	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 Topicals Oregon Action limits apply	ND	PASS
Microbial - Stec E.Coli	SOP-111	Complies with USP 61/62	Below LOD	PASS
Microbial - Salmonella	SOP-111	Complies with USP 61/62	Below LOD	PASS
Microbial - Yeast and Mold	SOP-111	Complies with USP 61/62	Below LOD	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	Below LOQ	PASS

* Level of Quantitation, † Parts Per Million

03/20/2020

Quality Certified by:

Darcie Moran

Darcie Moran

Manager of Quality Assurance

Date

CERTIFICATE OF ANALYSIS

ISO/IEC 17025:2017 ACCREDITATION #103104



Order #: 48717
 Order Name:
 JO.500.SALVE.x2020-1.b
 Batch#: 5102500-0352020-1
 Received: 02/12/2020
 Completed: 02/19/2020



Sample



N/D
D9-THC

1.779%
Total CBD

514.6 mg
Cannabinoids per
unit

504.3 mg
CBD per
unit

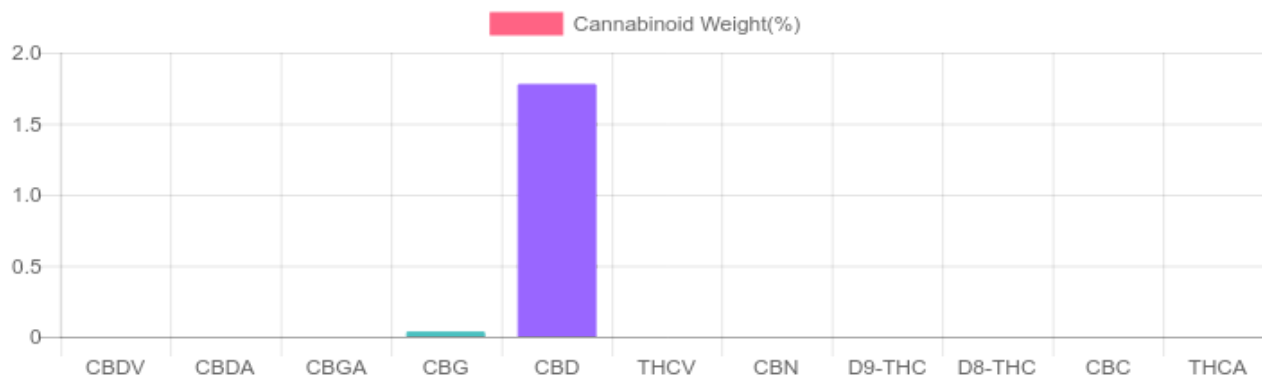
1 unit = 28.35 grams per unit x Cannabinoid concentration

Cannabinoids Test

SHIMADZU INTEGRATED UPLC-PDA
 GSL SOP 400

UPLOADED: 02/13/2020 08:13:38

Cannabinoids	LOQ	weight(%)	mg/g	mg/unit
D9-THC	10 PPM	N/D	N/D	N/D
THCA	10 PPM	N/D	N/D	N/D
CBD	10 PPM	1.779%	17.790	504.3
CBDA	20 PPM	N/D	N/D	N/D
CBDV	20 PPM	N/D	N/D	N/D
CBC	10 PPM	N/D	N/D	N/D
CBN	10 PPM	N/D	N/D	N/D
CBG	10 PPM	0.036%	0.363	10.3
CBGA	20 PPM	N/D	N/D	N/D
D8-THC	10 PPM	N/D	N/D	N/D
THCV	10 PPM	N/D	N/D	N/D
TOTAL D9-THC		N/D	N/D	N/D
TOTAL CBD*		1.779%	17.790	504.3
TOTAL CANNABINOIDS		1.815%	18.153	514.6



Reporting Limit 10 ppm

*Total CBD = CBD + CBDA x 0.877

N/D - Not Detected, B/LOQ - Below Limit of Quantification

Dr. Andrew Hall, Ph.D., Chief Scientific Officer

Ben Witten, MS, MT., Lab Director

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 1-833 TEST CBD



Green Scientific Labs uses its best efforts to deliver high quality results and to verify that the data contained therein are based on sound scientific judgment and levels listed are guidelines only and all data was reported based on standard laboratory procedures and deviations. However Green Scientific Labs makes no warranties or claims to that effect and further shall not be liable for any damage or misrepresentation that may result from the use or misuse of the data contained herein in any way. Further, Green Scientific Labs makes no claims regarding representations of the analyzed sample to the larger batch from which it was taken. Data and information in this report are intended solely for the individual(s) for whom samples were submitted and as part of our strict confidentiality policy, Green Scientific Labs can only discuss results with the original client of record.

Methods	SOP ID	equipment	Comments	Pesticides	result	limit	LOD	LOQ	error	pass/fail
potency	MSP-7.5.1.5	LC-2030		Abamectin	ND	0.0 ppm	0.004	0.013	±0.013 ppm	P
terpenes	MSP-7.5.1.7	QP2020/HS20		Acephate	ND	0.0 ppm	0.004	0.013	±0.013 ppm	P
solvents	MSP-7.5.1.6	QP2020/HS20		Acequinocyl	ND	0.0 ppm	0.004	0.011	±0.011 ppm	P
pesticides	MSP-7.5.1.8	LC-8060		Acetamiprid	ND	0.0 ppm	0.001	0.003	±0.003 ppm	P
mycotoxins	MSP-7.5.1.8	LC-8060		Aldicarb	ND	0.0 ppm	0.001	0.004	±0.004 ppm	P
microbial	MSP-7.5.1.9	Hardy Diag		Azoxystrobin	ND	0.0 ppm	0.001	0.004	±0.004 ppm	P
metals	MSP-7.5.1.10	ICPMS2030		Bifenazate	ND	0.0 ppm	0.001	0.003	±0.003 ppm	P
				Bifenthrin	ND	0.0 ppm	0.001	0.002	±0.002 ppm	P
				Boscalid	ND	0.0 ppm	0.012	0.037	±0.037 ppm	P
Mycotoxins	result	limit	LOD LOQ error pass/fail	Captan	NT	0.0 ppm				NA
Ochratoxin A	ND	0 ppb	0.2 0.7 ±0.7 ppb	Carbaryl	ND	0.0 ppm	0.005	0.015	±0.015 ppm	P
Aflatoxin B1B2G1G2	ND	0 ppb	0.3 0.8 ±0.8 ppb	Carbofuran	ND	0.0 ppm	0.001	0.003	±0.003 ppm	P
Microbial	result	limit	LOD LOQ error pass/fail	Chloanthraniliprole	ND	0.0 ppm	0.012	0.035	±0.035 ppm	P
E coli	ND	0CFU	0.0 0.1 ±0.1CFU	Chlordane	NT	0.0 ppm				NA
Salmonella sp.	ND	0CFU	0.0 0.1 ±0.1CFU	Chlorfenapyr	ND	0.0 ppm	0.003	0.009	±0.009 ppm	P
molds	ND	0CFU	1.4 4.2 ±4.2CFU	Chlormequat	ND	0.0 ppm	0.005	0.014	±0.014 ppm	P
Metals	result	limit	LOD LOQ error pass/fail	Chlorpyrifos	ND	0.0 ppm	0.024	0.073	±0.073 ppm	P
Arsenic	ND	0.0 ppm	0.085 0.256 ±0.256 ppm	Clofentezine	ND	0.0 ppm	0.004	0.013	±0.013 ppm	P
Cadmium	ND	0.0 ppm	0.123 0.368 ±0.368 ppm	Coumaphos	ND	0.0 ppm	0.003	0.009	±0.009 ppm	P
Lead	ND	0.0 ppm	0.057 0.172 ±0.172 ppm	Cyfluthrin	ND	0.0 ppm	0.004	0.013	±0.013 ppm	P
Mercury	ND	0.0 ppm	0.100 0.301 ±0.301 ppm	Cypermethrin	ND	0.0 ppm	0.003	0.009	±0.009 ppm	P
Residual Solvents	result	limit	LOD LOQ error pass/fail	Daminozide	ND	0.0 ppm	0.017	0.050	±0.050 ppm	P
NOT REQUIRED				Dichlorvos	ND	0.0 ppm	0.009	0.026	±0.026 ppm	P
				Diazinon	ND	0.0 ppm	0.001	0.002	±0.002 ppm	P
				Dimethoate	ND	0.0 ppm	0.001	0.004	±0.004 ppm	P
				Dimethomorph	NT	0.0 ppm				NA
				Ethoprop	ND	0.0 ppm	0.001	0.004	±0.004 ppm	P
				Ethoprop	ND	0.0 ppm	0.001	0.004	±0.004 ppm	P
				Etoazole	ND	0.0 ppm	0.002	0.007	±0.007 ppm	P
				Fenhexamid	NT	0.0 ppm				NA
				Fenoxycarb	ND	0.0 ppm	0.002	0.006	±0.006 ppm	P
				Fenpyroximate	ND	0.0 ppm	0.001	0.002	±0.002 ppm	P
				Fipronil	ND	0.0 ppm	0.004	0.013	±0.013 ppm	P
				Flonicamid	ND	0.0 ppm	0.059	0.177	±0.177 ppm	P
				Fludioxonil	ND	0.0 ppm	0.004	0.012	±0.012 ppm	P
				Hexythiazox	ND	0.0 ppm	0.006	0.017	±0.017 ppm	P
				Imazalil	ND	0.0 ppm	0.004	0.012	±0.012 ppm	P
				Imidacloprid	ND	0.0 ppm	0.001	0.002	±0.002 ppm	P
				Kresoxym Methyl	NT	0.0 ppm				NA
				Malathion	ND	0.0 ppm	0.003	0.009	±0.009 ppm	P
				Metalaxyl	ND	0.0 ppm	0.005	0.014	±0.014 ppm	P
				Methiocarb	ND	0.0 ppm	0.002	0.007	±0.007 ppm	P
				Methomyl	ND	0.0 ppm	0.004	0.011	±0.011 ppm	P
				Methyl parathion	ND	0.0 ppm	?.00?	?.00?	±?.00? ppm	P
				Mevinphos	ND	0.0 ppm	0.003	0.009	±0.009 ppm	P
				Myclobutanil	ND	0.0 ppm	0.001	0.002	±0.002 ppm	P
				Naled	ND	0.0 ppm	0.003	0.009	±0.009 ppm	P
				Oxamyl	ND	0.0 ppm	0.001	0.004	±0.004 ppm	P
				Paclobutrazol	ND	0.0 ppm	0.002	0.005	±0.005 ppm	P
				PCNB	NT	0.0 ppm				NA
				Permethrin	ND	0.0 ppm	0.006	0.018	±0.018 ppm	P
				Phosmet	ND	0.0 ppm	0.002	0.005	±0.005 ppm	P
				Piperonylbutoxide	ND	0.0 ppm	0.006	0.018	±0.018 ppm	P
				Prallethrin	ND	0.0 ppm	0.002	0.007	±0.007 ppm	P
				Propiconazole	ND	0.0 ppm	0.002	0.007	±0.007 ppm	P
				Propoxur	0.01 ppm	0.0 ppm	0.003	0.010	±0.010 ppm	F
				Pyrethrin	ND	0.0 ppm	0.002	0.005	±0.005 ppm	P
				Pyridaben	ND	0.0 ppm	0.001	0.002	±0.002 ppm	P
				Spinetoram	ND	0.0 ppm	0.002	0.006	±0.006 ppm	P
				Spinosad	ND	0.0 ppm	0.004	0.012	±0.012 ppm	P
				Spiromesifen	ND	0.0 ppm	0.002	0.005	±0.005 ppm	P
				Spiromesifen	ND	0.0 ppm	0.002	0.005	±0.005 ppm	P
				Spiromesifen	ND	0.0 ppm	0.002	0.005	±0.005 ppm	P
				Spirotetramat	ND	0.0 ppm	0.001	0.004	±0.004 ppm	P
				Spiroxamine	ND	0.0 ppm	<0.001	0.001	±0.001 ppm	P
				Tebuconazole	ND	0.0 ppm	0.003	0.009	±0.009 ppm	P
				Thiacloprid	ND	0.0 ppm	0.001	0.002	±0.002 ppm	P
				Thiamethoxam	ND	0.0 ppm	0.002	0.005	±0.005 ppm	P
				Trifloxystrobin	ND	0.0 ppm	0.001	0.004	±0.004 ppm	P

• 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; LOD is the limit of detection (3.3s_e), LOQ is the limit of quantification (3xLOD), and experimental error is calculated from weighing, dilution, and interpolation error using the formula s_e² = Σ(∂f/∂i)²s_e² where i is the contributor to error. The 95% confidence range is calculated from the equation: (concentration) ± t_{CL90} x s_e. Sampling error is not considered in error calculations. ND = not detected (< LOD), NT = not tested, P = pass, F = fail, NL = no limit, NA = not applicable.

Certified by:



Kyle Larson, MSc (Biology)

Deputy Director

Stillwater Laboratories Inc.
MT License L0001, L0007
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Olney MT 59927
406-881-2019

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

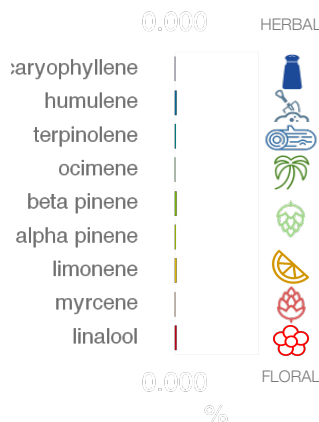
total
cannabinoids
84.7%CBD decarb total 80.7%
 Δ^9 -THC ND**This Product
Has Been
Tested and
Complies with
7USC1639o(1)
Definition of
Hemp****Stillwater
Laboratories**<https://portal.a2la.org/scopepdf/4961-01.pdf>

Sample Handling

test ID sample date 2/24/20 4:49 PM
order 6654 labID 0BR66 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-7.5.1.9	Hardy Diag
solvents MSP-7.5.1.6	QP2020/HS20
metals MSP-7.5.1.10	ICPMS2030



concentrate



Potency

	%	estimated error		%	estimated error		%	estimated error		%	estimated error
tetrahydrocannabinolic acid (THCa)	ND	± 0.02 %	β -myrcene	0.001%	± 0.0017 %	camphene	0.002%	± 0.0017 %	guaiol	0.000%	± 0.0017 %
Δ^9 -tetrahydrocannabinol (Δ^9 THC)	ND	± 0.02 %	β -caryophyllene	0.001%	± 0.0017 %	Δ^3 -carene	0.003%	± 0.0018 %	β -bisabolol	0.002%	± 0.0017 %
Δ^8 -tetrahydrocannabinol (Δ^8 THC)	ND	± 0.02 %	alpha-pinene	0.005%	± 0.0018 %	a-terpinene	0.000%	± 0.0016 %	eucalyptol	0.005%	± 0.0018 %
tetrahydrocannabivarin (THCv)	ND	± 0.02 %	β -pinene	0.008%	± 0.0019 %	para-cymene	0.009%	± 0.0019 %			
cannabidiolic acid (CBDa)	ND	± 0.02 %	D-limonene	0.009%	± 0.0019 %	g-terpinene	0.010%	± 0.0019 %			
cannabidiol (CBD)	80.7%	± 0.73 %	linalool	0.008%	± 0.0019 %	(-)-isopulegol	0.000%	± 0.0016 %	total		
cannabidivarin (CBDv)	ND	± 0.02 %	ocimene	0.002%	± 0.0034 %	geraniol	0.002%	± 0.0017 %	terpenes		
cannabigerolic acid (CBGa)	ND	± 0.02 %	terpinolene	0.003%	± 0.0018 %	cis-nerolidol	0.000%	± 0.0016 %	0.08%		
cannabigerol (CBG)	4.02%	± 0.16 %	alpha-humulene	0.007%	± 0.0019 %	trans-nerolidol	0.004%	± 0.0018 %			
cannabinol (CBN)	ND	± 0.02 %									
cannabichromene (CBC)	ND	± 0.02 %									

Solvents

MT limit	0BR66	LOQ	MT limit	0BR66	LOQ	MT limit	0BR66	LOQ
propane 5,000	0 ppm	<10ppm	abamectin 2.50 ppm	0.00 ppm	<10ppb	acephate 0.00 ppm	0.00 ppm	<10ppb
butanes 5,000	0 ppm	<10ppm	acequinocyl 10.00 ppm	0.00 ppm	<10ppb	acetamiprid 0.00 ppm	0.00 ppm	<10ppb
pentanes 5,000	0 ppm	<10ppm	bifenazate 1.00 ppm	0.00 ppm	<10ppb	aldicarb 0.00 ppm	0.00 ppm	<10ppb
hexanes 290	0 ppm	<10ppm	bifenthrin 1.00 ppm	0.00 ppm	<10ppb	azoxystrobin 0.00 ppm	0.00 ppm	<10ppb
cyclohexane 3,880	0 ppm	<10ppm	chlormequat cl. 5.00 ppm	0.00 ppm	<10ppb	boscalid 0.00 ppm	0.00 ppm	<10ppb
heptanes 5,000	0 ppm	<10ppm	cyfluthrin 5.00 ppm	0.00 ppm	<80ppb	carbaryl 0.00 ppm	0.00 ppm	<10ppb
methanol 3,000	0 ppm	<10ppm	diaminozide 5.00 ppm	0.00 ppm	<10ppb	carbofuran 0.00 ppm	0.00 ppm	<10ppb
isopropanol 5,000	0 ppm	<10ppm	etoxazole 1.00 ppm	0.00 ppm	<10ppb	chloanthraniliprole 0.00 ppm	0.00 ppm	<10ppb
acetone 5,000	0 ppm	<10ppm	fenoxycarb 1.00 ppm	0.00 ppm	<10ppb	chlorpyrifos 0.00 ppm	0.00 ppm	<10ppb
ethyl acetate 5,000	0 ppm	<10ppm	imazalil 1.00 ppm	0.00 ppm	<10ppb	clofentezine 0.00 ppm	0.00 ppm	<10ppb
benzene 2	0 ppm	<0.2ppm	imidacloprid 2.00 ppm	0.00 ppm	<10ppb	cypermethrin 0.00 ppm	0.00 ppm	<10ppb
toluene 890	0 ppm	<10ppm	myclobutanil 0.60 ppm	0.00 ppm	<10ppb	diazinon 0.00 ppm	0.00 ppm	<10ppb
xylenes 2,170	0 ppm	<10ppm	paclobutrazol 2.00 ppm	0.00 ppm	<10ppb	dichlorvos 0.00 ppm	0.00 ppm	<10ppb
chloroform 2	0 ppm	<0.2ppm	pyrethrins 5.00 ppm	0.00 ppm	<10ppb	dimethoate 0.00 ppm	0.00 ppm	<10ppb
dichloromethane 600	0 ppm	<10ppm	spinosad 1.00 ppm	0.00 ppm	<10ppb	etofenprox 0.00 ppm	0.00 ppm	<10ppb
			spiromesifen 1.00 ppm	0.00 ppm	<10ppb	fenpyroximate 0.00 ppm	0.00 ppm	<10ppb
			spirotetramat 1.00 ppm	0.00 ppm	<10ppb	fipronil 0.00 ppm	0.00 ppm	<10ppb
			trifloxystrobin 1.00 ppm	0.00 ppm	<10ppb	flonicamid 0.00 ppm	0.00 ppm	<10ppb

Toxic Metals

MT limit	0BR66	LOQ
arsenic 2 ppm	0.0 ppm	<10ppb
cadmium 0.8 ppm	0.0 ppm	<10ppb
lead 1.2 ppm	0.0 ppm	<10ppb
mercury 0.4 ppm	0.0 ppm	<10ppb

Comments

Microbial

MT limit	0BR66	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

Certified by:

Kyle Larson, MSc (Biology)

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