



CERTIFICATE OF ANALYSIS

PRODUCT NAME: Certified Organic Joy Organics CBD Salve
PRODUCT STRENGTH: 1000 mg
FILL LOT NUMBER: 21153-06
BEST BY DATE: 06/04/2023
HEMP EXTRACT LOT 05GD-210318

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	1000-1300 mg CBD LOQ**: 10 PPM† (0.001%)	1077.0 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 topicals, 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

Kayla Kolber 06/18/2021
 Kayla Kolber Date
 Quality Assurance Technician

certificate ID
1FE14

Salve 2oz

OS2OZ1000-21153-06

rec'd 6/8/2021 3:34:43 PM

total
cannabinoids
1141.7mg per
2oz

order 10969
THC † **ND**
CBD † **1077.0mg**

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

Stillwater
Laboratories



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

total cannabinoids **1141.7mg** 0.02 | 0.07 | ±0.50mg
total THC † **ND** 0.02 | 0.07 | ±0.07mg
total THC (THC+THCa) **ND** 0.02 | 0.07 | ±0.07mg

total CBD † 1077.0mg 0.02 | 0.07 | ±19.34mg
total CBD (CBD+CBDA) 1077.5mg 0.02 | 0.07 | ±19.35mg
tetrahydrocannabinolic acid (THCa) **ND** 0.02 | 0.07 | ±0.07mg
Δ9-tetrahydrocannabinol (Δ9 THC) **ND** 0.02 | 0.06 | ±0.06mg
Δ8-tetrahydrocannabinol (Δ8 THC) **ND** 0.03 | 0.08 | ±0.08mg
tetrahydrocannabivarin (THCv) **ND** 0.02 | 0.07 | ±0.07mg
cannabidiolic acid (CBDA) 4.1mg 0.02 | 0.06 | ±0.13mg
cannabidiol (CBD) 1073.4mg 0.02 | 0.07 | ±19.28mg
cannabidivarin (CBDv) **ND** 0.02 | 0.07 | ±0.07mg
cannabigerolic acid (CBGa) **ND** 0.02 | 0.06 | ±0.06mg
cannabigerol (CBG) 63.4mg 0.01 | 0.02 | ±1.15mg
cannabinol (CBN) 0.8mg 0.01 | 0.04 | ±0.05mg
cannabichromene (CBC) **ND** 0.02 | 0.07 | ±0.07mg

Microbial	MSP-7.5.1.10	limit	LOD	LOQ	error	result
E.coli	ND	OCFU	0.0	0.1	±0.1	CFU PASS
Salmonella sp.	ND	OCFU	0.0	0.1	±0.1	CFU PASS
molds	ND	10000CFU	1.6	4.9	±4.9	CFU PASS
Ochratoxin A	ND	20 ppb	0.3	0.8	±0.8	ppb PASS
Aflatoxin B1B2G1G2	ND	20 ppb	0.3	0.8	±0.8	ppb PASS

Pesticides	MSP-7.5.1.8	limit	LOD	LOQ	error	result
Abamectin	ND	0.30 ppm	0.005	0.014	±0.014	ppm PASS
Acephate	ND	5.00 ppm	0.005	0.014	±0.014	ppm PASS
Acetaminocyl	ND	4.00 ppm	0.004	0.010	±0.010	ppm PASS
Acetamiprid	ND	5.00 ppm	0.003	0.010	±0.010	ppm PASS
Aldicarb	ND	0.00 ppm	0.001	0.004	±0.004	ppm PASS
Azoxystrobin	ND	40.00 ppm	0.001	0.004	±0.004	ppm PASS
Bifenazate	ND	5.00 ppm	0.001	0.003	±0.003	ppm PASS
Bifenthrin	ND	0.50 ppm	0.001	0.002	±0.002	ppm PASS
Boscalid	ND	10.00 ppm	0.013	0.039	±0.039	ppm PASS
Carbaryl	ND	0.50 ppm	0.005	0.015	±0.015	ppm PASS
Carbofuran	ND	0.00 ppm	0.001	0.003	±0.003	ppm PASS
Chloanthraniliprole	ND	40.00 ppm	0.012	0.037	±0.037	ppm PASS
Chlorfenapyr	ND	0.00 ppm	0.003	0.010	±0.010	ppm PASS
Chlorpyrifos	ND	0.00 ppm	0.026	0.078	±0.078	ppm PASS
Clofentezine	ND	0.50 ppm	0.005	0.014	±0.014	ppm PASS
Coumaphos	ND	0.00 ppm	0.003	0.010	±0.010	ppm PASS
Cyfluthrin	ND	1.00 ppm	0.005	0.014	±0.014	ppm PASS
Cypermethrin	ND	1.00 ppm	0.003	0.010	±0.010	ppm PASS
Daminozide	ND	0.00 ppm	0.018	0.053	±0.053	ppm PASS
Dichlorvos	ND	0.00 ppm	0.009	0.027	±0.027	ppm PASS
Diazinon	ND	0.20 ppm	0.001	0.002	±0.002	ppm PASS
Dimethoate	ND	0.00 ppm	0.001	0.004	±0.004	ppm PASS
Etoxazole	ND	1.50 ppm	0.002	0.007	±0.007	ppm PASS
Fenoxycarb	ND	0.00 ppm	0.002	0.007	±0.007	ppm PASS
Fenpyroximate	ND	2.00 ppm	0.001	0.002	±0.002	ppm PASS
Fipronil	ND	0.00 ppm	0.005	0.014	±0.014	ppm PASS
Fonicamid	ND	2.00 ppm	0.063	0.188	±0.188	ppm PASS
Fludioxonil	ND	30.00 ppm	0.004	0.012	±0.012	ppm PASS
Hexythiazox	ND	2.00 ppm	0.001	0.002	±0.002	ppm PASS
Imazail	ND	0.00 ppm	0.004	0.012	±0.012	ppm PASS
Imidacloprid	ND	3.00 ppm	0.001	0.002	±0.002	ppm PASS
Malathion	ND	5.00 ppm	0.003	0.010	±0.010	ppm PASS
Metalaxyl	ND	15.00 ppm	0.005	0.014	±0.014	ppm PASS
Methiocarb	ND	0.00 ppm	0.002	0.007	±0.007	ppm PASS
Methomyl	ND	0.10 ppm	<0.001	0.001	±0.001	ppm PASS
Methyl parathion	ND	0.00 ppm	0.001	0.002	±0.002	ppm PASS
Mevinphos	ND	0.00 ppm	0.003	0.010	±0.010	ppm PASS
Myclobutanil	ND	9.00 ppm	0.001	0.002	±0.002	ppm PASS
Naled	ND	0.50 ppm	0.003	0.010	±0.010	ppm PASS
Oxamyl	ND	0.20 ppm	0.001	0.004	±0.004	ppm PASS
Paclbutrazol	ND	0.00 ppm	0.002	0.005	±0.005	ppm PASS
Permethrin	ND	20.00 ppm	0.006	0.019	±0.019	ppm PASS
Phosmet	ND	0.20 ppm	0.002	0.006	±0.006	ppm PASS
Piperonylbutoxide	ND	8.00 ppm	0.006	0.019	±0.019	ppm PASS
Prallethrin	ND	0.40 ppm	0.002	0.007	±0.007	ppm PASS
Propiconazole	ND	20.00 ppm	0.002	0.007	±0.007	ppm PASS
Propoxur	ND	0.00 ppm	0.004	0.011	±0.011	ppm PASS

Metals	MSP-7.5.1.11	limit	LOD	LOQ	error	result
Arsenic	ND	1500 ppb	8.1	24.2	±24.2	ppb PASS
Cadmium	ND	500 ppb	8.7	26.1	±26.1	ppb PASS
Lead	ND	500 ppb	13.6	40.7	±40.7	ppb PASS
Mercury	ND	300 ppb	6.8	20.5	±20.5	ppb PASS

Pesticides	MSP-7.5.1.8	limit	LOD	LOQ	error	result
Pyrethrin	ND	1.00 ppm	0.002	0.005	±0.005	ppm PASS
Pyridaben	ND	3.00 ppm	0.001	0.002	±0.002	ppm PASS
Spinetoram	ND	3.00 ppm	0.002	0.006	±0.006	ppm PASS
Spinosad	ND	3.00 ppm	0.004	0.013	±0.013	ppm PASS
Spiromesifen	ND	12.00 ppm	0.002	0.006	±0.006	ppm PASS
Spirotetramat	ND	13.00 ppm	0.001	0.004	±0.004	ppm PASS
Spiroxamine	ND	0.00 ppm	0.001	0.002	±0.002	ppm PASS
Tebuconazole	ND	2.00 ppm	0.003	0.010	±0.010	ppm PASS
Thiacloprid	ND	0.10 ppm	0.001	0.002	±0.002	ppm PASS
Thiamethoxam	ND	4.50 ppm	0.002	0.006	±0.006	ppm PASS
Trifloxystrobin	ND	30.00 ppm	0.001	0.004	±0.004	ppm PASS

Certified by:



https://customer.a2la.org/index.cfm?event=directory_detail&labPID=423635B2-5128-4C6F-871A-419DCF43B0D7

Stillwater Laboratories Inc.
MT License L0001, L00007
6073 US93N Suite 5, Olney MT 59927
406-881-2019

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

* All testing was completed onsite at 6073 US93N, Olney MT ** Potency (cannabinoid concentration) is calculated as: [cannabinoid] = [cannabinoid]_{HPLC} x volume_{dilution}/M_{dry} ... Decarboxyated cannabinoid concentration is calculated 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), LOQ is the limit of quantification (3xLOD), and experimental error is calculated from weighing, dilution, and interpolation error using the formula s_e² = Σ (d_i/d_i)² s_e² where i is the contributor to error. The 95% confidence range is calculated from: (concentration) ± t_{CL90} x s_e. Sampling error is not considered in error calculations. ND = not detected (< LOD), NT = not tested, NL = no limit, NA = not applicable. † = decarbed

Printed 6/10/2021 12:12 PM



Certificate of Analysis

Powered by Confident Cannabis

Sample: 2103DBL0448.3288

METRC Sample:
Lot #: PH-21068-BS-5M-O
Batch #: O5GD-210318

Strain: Distillate

Ordered: 03/30/2021; Sampled: 03/31/2021; Completed: 04/06/2021

OBX Organic 5G Distillate

Concentrates & Extracts, Distillate, Other



Pesticides



Microbials



Mycotoxins



Heavy Metals



Foreign Matter



Solvents

Terpenes

Analyzed by 300.13 GC/FID and GC/MS

0.335%
Total Terpenes



Compound	LOQ %	Mass %	Mass mg/g	Relative Concentration
β-Caryophyllene	0.007	0.117	1.17	
α-Bisabolol	0.007	0.094	0.94	
α-Humulene	0.007	0.046	0.46	
cis-Nerolidol	0.004	0.035	0.35	
Guaiol	0.007	0.029	0.29	
Linalool	0.007	0.010	0.10	
trans-Nerolidol	0.002	0.003	0.03	
α-Pinene	<LOQ	<LOQ	<LOQ	
α-Terpinene	<LOQ	<LOQ	<LOQ	
β-Myrcene	<LOQ	<LOQ	<LOQ	
β-Pinene	<LOQ	<LOQ	<LOQ	
Camphene	<LOQ	<LOQ	<LOQ	
Caryophyllene Oxide	<LOQ	<LOQ	<LOQ	
cis-Ocimene	<LOQ	<LOQ	<LOQ	
δ-3-Carene	<LOQ	<LOQ	<LOQ	
δ-Limonene	<LOQ	<LOQ	<LOQ	
Eucalyptol	<LOQ	<LOQ	<LOQ	
γ-Terpinene	<LOQ	<LOQ	<LOQ	
Geraniol	<LOQ	<LOQ	<LOQ	
Isopulegol	<LOQ	<LOQ	<LOQ	
p-Cymene	<LOQ	<LOQ	<LOQ	
Terpinolene	<LOQ	<LOQ	<LOQ	
trans-Ocimene	<LOQ	<LOQ	<LOQ	

Cannabinoid Relative Concentration

Analyzed by 300.18 UHPLC/PDA

<LOQ
Total THC

85.371%
Total CBD

NT
Moisture: Not Tested

91.524%
Total Cannabinoids

Compound	LOQ %	Mass %	Mass mg/g	Relative Concentration
CBC	<LOQ	0.067	0.67	
CBCa	<LOQ	<LOQ	<LOQ	
CBD	<LOQ	85.371	853.71	
CBDa	<LOQ	<LOQ	<LOQ	
CBDV	<LOQ	0.878	8.78	
CBDVa	<LOQ	<LOQ	<LOQ	
CBG	<LOQ	5.208	52.08	
CBGa	<LOQ	<LOQ	<LOQ	
CBL	<LOQ	<LOQ	<LOQ	
CBN	<LOQ	<LOQ	<LOQ	
Δ8-THC	<LOQ	<LOQ	<LOQ	
Δ9-THC	<LOQ	<LOQ	<LOQ	
THCa	<LOQ	<LOQ	<LOQ	
THCV	<LOQ	<LOQ	<LOQ	
THCVa	<LOQ	<LOQ	<LOQ	

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



Notes: Updated lot number.



Benjamin G.M. Chew
Benjamin G.M. Chew, Ph.D.
Laboratory Director

Glen Marquez
Glen Marquez
Quality Control



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Lot #: PH-21068-BS-5M-O
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Strain: Distillate

Ordered: 03/30/2021; Sampled: 03/31/2021; Completed: 04/06/2021

OBX Organic 5G Distillate

Concentrates & Extracts, Distillate, Other



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	3000	<LOQ	Pass
Etoxazole	10	400	<LOQ	Pass
Fenhexamid	10	1000	<LOQ	Pass
Flonicamid	10	1000	<LOQ	Pass
Fludioxonil	10	300	<LOQ	Pass
Imidacloprid	10	500	<LOQ	Pass
Myclobutanil	10	400	<LOQ	Pass
Paclbutrazol	10	400	<LOQ	Pass
Piperonyl Butoxide	10	3000	<LOQ	Pass
Pyrethrins	10	2000	<LOQ	Pass
Quintozene	10	500	<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
Bile-Tolerant Gram-Negative Bacteria	10	1000	CFU/g	Pass
Yeast & Mold	10	1000	<LOQ	Pass
Qualitative Analysis		Detected or Not Detected		Status
E. Coli		Not Detected		Pass
Salmonella		Not Detected		Pass

Mycotoxins		Pass		
Analyzed by 300.2 Elisa				
Mycotoxin	LOQ	Limit	Mass	Status
Aflatoxins	10	100	PPB	Pass
Ochratoxin A	10	100	PPB	Pass

Heavy Metals		Pass		
Analyzed by 300.8 ICP/MS				
Element	LOQ	Limit	Mass	Status
Arsenic	10	100	PPB	Pass
Cadmium	10	100	PPB	Pass
Lead	10	100	PPB	Pass
Mercury	10	100	PPB	Pass

Residual Solvents		Pass		
Analyzed by 300.13 GC/FID and GC/MS				
Compound	LOQ	Limit	Mass	Status
Butanes	10	100	PPB	Pass
Ethanol	10	100	PPB	Tested
Heptanes	10	100	PPB	Pass
Propane	10	100	PPB	Pass



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