



# Certificate of Analysis

QA SAMPLE - INFORMATIONAL ONLY

1 of 3

ICAL ID: 20190225-041  
Sample: 1902ICA0867.2698  
CBD Hemp Topical Salve 25ml  
Strain: CBD Hemp Topical Salve 25ml  
Category: Topical

Pure Ratios  
Lic. #  
San Diego, CA 92110  
Lic. #

Batch#:   
Primary Size:   
Total/Batch Size:   
Collected: 03/07/2019; Received: 03/07/2019  
Completed: 03/07/2019

Moisture NT	Δ9-THC NR	CBD 142.72 mg/unit	Total Cannabinoids 142.72 mg/unit	Total Terpenes 5.87 mg/g
Water Activity NT				

## Summary

Batch	SOP Used	Date Tested	Pass
Cannabinoids	SOP:003Topical		Complete
Terpenes	SOP:TERPMS.Topical.1	03/05/2019	Complete
Residual Solvents	SOP:NON-Inhalable	03/05/2019	Pass
Microbials	SOP:qpcrone	03/06/2019	Pass
Mycotoxins	SOP:PEST.002.E	03/03/2019	Pass
Pesticides	PEST.Topical	02/26/2019	Complete
Heavy Metals	SOP:HM001	03/05/2019	Pass



Scan to see results

## Cannabinoid Profile

1 Unit = container, 20.81g

Analyte	LOQ	LOD	%	mg/g	mg/unit	Analyte	LOQ	LOD	%	mg/g	mg/unit
THCa	0.60	0.36	NR	NR	NR	CBDV	0.60	0.36	NR	NR	NR
Δ9-THC	0.60	0.36	NR	NR	NR	CBN	0.60	0.36	NR	NR	NR
Δ8-THC	0.60	0.36	NR	NR	NR	CBGa	0.60	0.36	NR	NR	NR
THCV	0.60	0.36	NR	NR	NR	CBG	0.60	0.36	NR	NR	NR
CBDa	0.60	0.36	NR	NR	NR	CBC	0.60	0.36	NR	NR	NR
CBD	0.60	0.36	0.686	6.86	142.72	<b>Total</b>			<b>0.686</b>	<b>6.86</b>	<b>142.72</b>

Total THC=THCa \* 0.877 + d9-THC; Total CBD = CBDa \* 0.877 + CBD; NR= Not Reported, ND= Not Detected, \*Reported by Dry Mass\*; \*analytical instrumentation used Cannabinoids:UHPLC-DAD, Moisture:Mass by Drying, Water Activity:Water Activity Meter, Foreign Material:Microscope\*

## Terpene Profile

Analyte	LOQ	LOD	%	mg/g	Analyte	LOQ	LOD	%	mg/g
α-Pinene	0.20	0.10	0.222	2.22	Camphene	0.20	0.10	<LOQ	<LOQ
Eucalyptol	0.20	0.10	0.179	1.79	Caryophyllene Oxide	0.20	0.10	<LOQ	<LOQ
δ-Limonene	0.20	0.10	0.082	0.82	cis-Nerolidol	0.20	0.10	ND	ND
δ-3-Carene	0.20	0.10	0.050	0.50	γ-Terpinene	0.20	0.10	ND	ND
β-Caryophyllene	0.20	0.10	0.030	0.30	Geraniol	0.20	0.10	ND	ND
p-Cymene	0.20	0.10	0.024	0.24	Linalool	0.20	0.10	<LOQ	<LOQ
α-Bisabolol	0.20	0.10	ND	ND	Ocimene	0.20	0.10	ND	ND
α-Humulene	0.20	0.10	ND	ND	(-)-Guaiol	0.20	0.10	ND	ND
α-Terpinene	0.20	0.10	ND	ND	Terpinolene	0.20	0.10	ND	ND
β-Myrcene	0.20	0.10	ND	ND	trans-Nerolidol	0.20	0.10	ND	ND
β-Ocimene	0.20	0.10	ND	ND	(-)-Isopulegol			ND	ND
β-Pinene	0.20	0.10	ND	ND	<b>Total</b>			<b>0.587</b>	<b>5.87</b>

NR= Not Reported thus no analysis was performed, ND= Not Detected thus the concentration is less then the Limit of Quantification (LOQ), \*analytical instrumentation used:HS-GC-FID-FID\*



Infinite Chemical Analysis Labs  
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*Josh M Swider*

Josh Swider  
Lab Director, Managing Partner  
03/07/2019

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Total/Batch Size: \_\_\_\_\_  
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## Residual Solvent Analysis

Category 1	LOQ	LOD	Limit	Status	Category 2	LOQ	LOD	Limit	Status	Category 2	LOQ	LOD	Limit	Status			
	µg/g	µg/g	µg/g	µg/g		µg/g	µg/g	µg/g	µg/g		µg/g	µg/g	µg/g	µg/g			
1,2-Dichloro-Ethane	ND	1	0.5	1	Pass	Acetone	ND	300	200	5000	Pass	n-Hexane	ND	35	20	290	Pass
Benzene	ND	1	0.5	1	Pass	Acetonitrile	ND	150	100	410	Pass	Isopropanol	ND	300	200	5000	Pass
Chloroform	ND	1	0.5	1	Pass	Butane	ND	300	200	5000	Pass	Methanol	ND	300	200	3000	Pass
Ethylene Oxide	ND	1	0.5	1	Pass	Ethanol	ND	300	200	5000	Pass	Pentane	ND	300	200	5000	Pass
Methylene-Chloride	ND	1	0.5	1	Pass	Ethyl-Acetate	ND	300	200	5000	Pass	Propane	ND	300	200	5000	Pass
Trichloroethene	ND	1	0.5	1	Pass	Ethyl-Ether	ND	300	200	5000	Pass	Toluene	ND	150	100	890	Pass
						Heptane	ND	300	200	5000	Pass	Xylenes	ND	150	100	2170	Pass

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## Heavy Metal Screening

	LOQ	LOD	Limit	Status	
µg/g	µg/g	µg/g	µg/g		
Arsenic	ND	0.1	0.0625	1.5	Pass
Cadmium	ND	0.1	0.0625	0.5	Pass
Lead	ND	0.1	0.0625	0.5	Pass
Mercury	ND	0.1	0.0625	3	Pass

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## Microbiological Screening

	Result	Status
Aspergillus flavus	NR	NT
Aspergillus fumigatus	NR	NT
Aspergillus niger	NR	NT
Aspergillus terreus	NR	NT
shiga toxin-producing E. coli	Not Detected	Pass
Salmonella SPP	Not Detected	Pass

ND=Not Detected; \*analytical instrumentation used:qPCR\*



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## Chemical Residue Screening

Category 1	LOQ	LOD	Status	
	µg/g	µg/g	µg/g	
Aldicarb	ND	0.05	0.03	Tested
Carbofuran	ND	0.05	0.03	Tested
Chlordane	ND	0.1	0.05	Tested
Chlorfenapyr	ND	0.1	0.05	Tested
Chlorpyrifos	<LOQ	0.05	0.03	Tested
Coumaphos	0.057	0.05	0.03	Tested
Daminozide	ND	0.05	0.03	Tested
DDVP	ND	0.05	0.03	Tested
Dimethoate	ND	0.05	0.03	Tested
Ethoprophos	ND	0.05	0.03	Tested
Etofenprox	ND	0.05	0.03	Tested
Fenoxycarb	ND	0.05	0.03	Tested
Fipronil	ND	0.05	0.03	Tested
Imazalil	ND	0.05	0.03	Tested
Methiocarb	ND	0.05	0.03	Tested
Methyl Parathion	ND	0.1	0.05	Tested
Mevinphos	ND	0.05	0.03	Tested
Paclbutrazol	ND	0.05	0.03	Tested
Propoxur	ND	0.05	0.03	Tested
Spiroxamine	ND	0.05	0.03	Tested
Thiacloprid	ND	0.05	0.03	Tested

Mycotoxins	LOQ	LOD	Limit	Status	
	µg/kg	µg/kg	µg/kg	µg/kg	
B1	ND	5	3	Tested	
B2	ND	5	3	Tested	
G1	ND	5	3	Tested	
G2	ND	5	3	Tested	
Ochratoxin A	ND	10	7	20	Pass
Total Aflatoxins	ND			20	Pass

Category 2	LOQ	LOD	Limit	Status
	µg/g	µg/g	µg/g	µg/g
Abamectin	ND	0.05	0.03	Tested
Acephate	ND	0.05	0.03	Tested
Acequinocyl	ND	0.05	0.03	Tested
Acetamiprid	ND	0.05	0.03	Tested
Azoxystrobin	ND	0.05	0.03	Tested
Bifenazate	ND	0.05	0.03	Tested
Bifenthrin	ND	0.25	0.1	Tested
Boscalid	ND	0.05	0.03	Tested
Captan	ND	0.35	0.2	Tested
Carbaryl	ND	0.05	0.03	Tested
Chlorantraniliprole	ND	0.05	0.03	Tested
Clofentezine	ND	0.05	0.03	Tested
Cyfluthrin	ND	0.35	0.25	Tested
Cypermethrin	ND	0.35	0.2	Tested
Diazinon	ND	0.05	0.03	Tested
Dimethomorph	ND	0.05	0.03	Tested
Etoxazole	ND	0.05	0.03	Tested
Fenhexamid	ND	0.05	0.03	Tested
Fenpyroximate	ND	0.05	0.03	Tested
Flonicamid	ND	0.05	0.03	Tested
Fludioxonil	ND	0.05	0.03	Tested
Hexythiazox	ND	0.05	0.03	Tested
Imidacloprid	ND	0.35	0.1	Tested

Category 2	LOQ	LOD	Limit	Status
	µg/g	µg/g	µg/g	µg/g
Kresoxim Methyl	ND	0.05	0.03	Tested
Malathion	ND	0.05	0.03	Tested
Metalaxyl	ND	0.05	0.03	Tested
Methomyl	ND	0.45	0.2	Tested
Myclobutanil	ND	0.05	0.03	Tested
Naled	ND	0.1	0.05	Tested
Oxamyl	ND	0.2	0.1	Tested
Pentachloronitrobenzene	ND	0.1	0.05	Tested
Permethrin	ND	0.25	0.1	Tested
Phosmet	ND	0.05	0.03	Tested
Piperonyl Butoxide	ND	0.25	0.1	Tested
Prallethrin	ND	0.05	0.03	Tested
Propiconazole	ND	0.05	0.03	Tested
Pyrethrins	ND	0.25	0.1	Tested
Pyridaben	ND	0.05	0.03	Tested
Spinetoram	ND	0.05	0.03	Tested
Spinosad	ND	0.05	0.03	Tested
Spiromesifen	ND	0.05	0.03	Tested
Spirotetramat	ND	0.05	0.03	Tested
Tebuconazole	ND	0.05	0.03	Tested
Thiamethoxam	ND	0.25	0.1	Tested
Trifloxystrobin	ND	0.05	0.03	Tested

### Unknown Analyte(s):

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