



Certificate of Analysis

QA SAMPLE - INFORMATIONAL ONLY

1 of 3

ICAL ID: 20190305-001
Sample: 1903ICA0998.3070
50ml CBD Hemp
Strain: 50ml CBD Hemp
Category: Topical

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

Batch#:
Primary Size:
Total/Batch Size:
Collected: 03/08/2019; Received: 03/08/2019
Completed: 03/08/2019

Moisture NT Water Activity NT	Δ 9-THC NR	CBD 275.54 mg/unit	Total Cannabinoids 275.54 mg/unit	Total Terpenes 5.68 mg/g
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Summary

Summary	SOP Used	Date Tested	
Batch			Pass
Cannabinoids	SOP:003Topical		Complete
Terpenes	SOP:TERP.MS.Topical1	03/07/2019	Complete
Residual Solvents	SOP:NON-Inhalable	03/07/2019	Pass
Microbials	SOP:qpcrone	03/07/2019	Pass
Mycotoxins	SOP: MYCO EX	03/06/2019	Pass
Pesticides	PEST.Topical	03/06/2019	Pass
Heavy Metals	SOP:HM001	03/07/2019	Pass
Foreign Matter	SOP:FM-001	03/06/2019	Pass



Scan to see results

Cannabinoid Profile

1 Unit = container, 40.1g

Analyte	LOQ	LOD	%	mg/g	mg/unit	Analyte	LOQ	LOD	%	mg/g	mg/unit
THCa	1.15	0.69	NR	NR	NR	CBDV	1.15	0.69	NR	NR	NR
Δ 9-THC	1.15	0.69	NR	NR	NR	CBN	1.15	0.69	NR	NR	NR
Δ 8-THC	1.15	0.69	NR	NR	NR	CBGa	1.15	0.69	NR	NR	NR
THCV	1.15	0.69	NR	NR	NR	CBG	1.15	0.69	NR	NR	NR
CBDa	1.15	0.69	NR	NR	NR	CBC	1.15	0.69	NR	NR	NR
CBD	1.15	0.69	0.687	6.87	275.54	Total			0.687	6.87	275.54

Total THC=THCa * 0.877 + Δ 9-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	0.190	1.90	β -Pinene	0.20	0.10	ND	ND
Eucalyptol	0.20	0.10	0.146	1.46	Camphene	0.20	0.10	<LOQ	<LOQ
δ -Limonene	0.20	0.10	0.067	0.67	Caryophyllene Oxide	0.20	0.10	<LOQ	<LOQ
δ -3-Carene	0.20	0.10	0.041	0.41	cis-Nerolidol	0.20	0.10	ND	ND
Terpinolene	0.20	0.10	0.039	0.39	γ -Terpinene	0.20	0.10	ND	ND
β -Myrcene	0.20	0.10	0.034	0.34	Geraniol	0.20	0.10	ND	ND
β -Caryophyllene	0.20	0.10	0.028	0.28	Linalool	0.20	0.10	<LOQ	<LOQ
p-Cymene	0.20	0.10	0.021	0.21	Ocimene	0.20	0.10	ND	ND
α -Bisabolol	0.20	0.10	ND	ND	(-)-Guaiol	0.20	0.10	ND	ND
α -Humulene	0.20	0.10	ND	ND	trans-Nerolidol	0.20	0.10	ND	ND
α -Terpinene	0.20	0.10	ND	ND	(-)-Isopulegol			ND	ND
β -Ocimene	0.20	0.10	ND	ND	Total			0.568	5.68

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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Lic# C8-18-0000019-TEMP

Josh M Swider

Josh Swider
Lab Director, Managing Partner
03/08/2019

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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	ND	0.05	0.03	Tested
Coumaphos	0.062	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		
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	0.3	Pass
Acephate	ND	0.05	0.03	5	Pass
Acequinocyl	ND	0.05	0.03	4	Pass
Acetamiprid	ND	0.05	0.03	5	Pass
Azoxystrobin	ND	0.05	0.03	40	Pass
Bifenazate	ND	0.05	0.03	5	Pass
Bifenthrin	ND	0.25	0.1	0.5	Pass
Boscalid	ND	0.05	0.03	10	Pass
Captan	ND	0.35	0.2	5	Pass
Carbaryl	ND	0.05	0.03	0.5	Pass
Chlorantraniliprole	ND	0.05	0.03	40	Pass
Clofentezine	ND	0.05	0.03	0.5	Pass
Cyfluthrin	ND	0.35	0.25	1	Pass
Cypermethrin	ND	0.35	0.2	1	Pass
Diazinon	ND	0.05	0.03	0.2	Pass
Dimethomorph	ND	0.05	0.03	20	Pass
Etoxazole	ND	0.05	0.03	1.5	Pass
Fenhexamid	ND	0.05	0.03	10	Pass
Fenpyroximate	ND	0.05	0.03	2	Pass
Flonicamid	ND	0.05	0.03	2	Pass
Fludioxonil	ND	0.05	0.03	30	Pass
Hexythiazox	ND	0.05	0.03	2	Pass
Imidacloprid	ND	0.35	0.1	3	Pass

Category 2	LOQ	LOD	Limit	Status	
	µg/g	µg/g	µg/g	µg/g	
Kresoxim Methyl	ND	0.05	0.03	1	Pass
Malathion	ND	0.05	0.03	5	Pass
Metalaxyl	ND	0.05	0.03	15	Pass
Methomyl	ND	0.45	0.2	0.1	Pass
Myclobutanil	ND	0.05	0.03	9	Pass
Naled	ND	0.1	0.05	0.5	Pass
Oxamyl	ND	0.2	0.1	0.3	Pass
Pentachloronitrobenzene	ND	0.1	0.05	0.2	Pass
Permethrin	ND	0.25	0.1	20	Pass
Phosmet	ND	0.05	0.03	0.2	Pass
Piperonyl Butoxide	ND	0.25	0.1	8	Pass
Prallethrin	ND	0.05	0.03	0.4	Pass
Propiconazole	ND	0.05	0.03	20	Pass
Pyrethrins	ND	0.25	0.1	1	Pass
Pyridaben	ND	0.05	0.03	3	Pass
Spinetoram	ND	0.05	0.03	3	Pass
Spinosad	ND	0.05	0.03	3	Pass
Spiromesifen	ND	0.05	0.03	12	Pass
Spirotetramat	ND	0.05	0.03	13	Pass
Tebuconazole	ND	0.05	0.03	2	Pass
Thiamethoxam	ND	0.25	0.1	4.5	Pass
Trifloxystrobin	ND	0.05	0.03	30	Pass

Unknown Analyte(s):

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