



Certificate of Analysis

QA SAMPLE - INFORMATIONAL ONLY

1 of 3

ICAL ID: 20190225-044
Sample: 1902ICA0867.2701
CBD Hemp disposable vape 100mg
Strain: CBD Hemp disposable vape 100mg
Category: Concentrates & Extracts

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

Batch#:
Primary Size:
Total/Batch Size:
Collected: 02/28/2019; Received: 02/28/2019
Completed: 02/28/2019

Moisture NT	Total THC ND	Total CBD 105.56 mg/unit	Total Cannabinoids 105.56 mg/unit	Total Terpenes 7.21 mg/g
Water Activity NT				

Summary

SOP Used	Date Tested	Pass
Batch		Complete
Cannabinoids	SOP:003Extract 02/26/2019	Complete
Terpenes	SOP:TERP.MS.Conc1 02/27/2019	Complete
Residual Solvents	SOP:Inhalalbe 02/27/2019	Complete
Microbials	SOP:qpcrone 02/27/2019	Pass
Mycotoxins	SOP: MYCO EX 02/26/2019	Pass
Pesticides	PEST.002.Extract 02/26/2019	Pass
Heavy Metals	SOP:HM001 02/27/2019	Pass
Foreign Matter	SOP:FM-001 02/25/2019	Pass



Scan to see results

Cannabinoid Profile

1 Unit = cartridge, 1g

Analyte	LOQ	LOD	%	mg/g	mg/unit	Analyte	LOQ	LOD	%	mg/g	mg/unit
THCa	0.26	0.15	ND	ND	ND	CBDV	0.26	0.15	NR	NR	NR
Δ9-THC	0.26	0.15	ND	ND	ND	CBN	0.26	0.15	ND	ND	ND
Δ8-THC	0.26	0.15	NR	NR	NR	CBGa	0.26	0.15	ND	ND	ND
THCV	0.26	0.15	NR	NR	NR	CBG	0.26	0.15	<1	<1	<1
CBDa	0.26	0.15	ND	ND	ND	CBC	0.26	0.15	NR	NR	NR
CBD	0.26	0.15	10.556	105.56	105.56	Total			10.556	105.56	105.56

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	2.48	β-Ocimene	0.20	0.10	ND
Eucalyptol	0.20	0.10	2.09	β-Pinene	0.20	0.10	ND
δ-Limonene	0.20	0.10	0.94	cis-Nerolidol	0.20	0.10	ND
δ-3-Carene	0.20	0.10	0.60	γ-Terpinene	0.20	0.10	ND
β-Caryophyllene	0.20	0.10	0.39	Geraniol	0.20	0.10	ND
p-Cymene	0.20	0.10	0.29	Linalool	0.20	0.10	<LOQ
Caryophyllene Oxide	0.20	0.10	0.22	Ocimene	0.20	0.10	ND
Camphene	0.20	0.10	0.21	(-)-Guaiol	0.20	0.10	ND
α-Bisabolol	0.20	0.10	ND	Terpinolene	0.20	0.10	ND
α-Humulene	0.20	0.10	ND	trans-Nerolidol	0.20	0.10	ND
α-Terpinene	0.20	0.10	ND	(-)-Isopulegol			ND
β-Myrcene	0.20	0.10	ND	Total			7.21

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
8380 Miramar Mall #102
San Diego, CA
(858) 623-2740
www.infiniteCAL.com
Lic# C8-18-0000019-TEMP

Josh M Swider

Josh Swider
Lab Director, Managing Partner
02/28/2019

Confident Cannabis
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support@confidentcannabis.com
(866) 506-5866
www.confidentcannabis.com



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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	5.8	1.0	0.5	Tested	Acetone	ND	300.0	200.0	Tested	n-Hexane	ND	35.0	20.0	Tested
Benzene	ND	1.0	0.5	Tested	Acetonitrile	ND	150.0	100.0	Tested	Isopropanol	ND	300.0	200.0	Tested
Chloroform	ND	1.0	0.5	Tested	Butane	ND	300.0	200.0	Tested	Methanol	ND	300.0	200.0	Tested
Ethylene Oxide	ND	1.0	0.5	Tested	Ethanol	ND	300.0	200.0	Tested	Pentane	ND	300.0	200.0	Tested
Methylene-Chloride	ND	1.0	0.5	Tested	Ethyl-Acetate	ND	300.0	200.0	Tested	Propane	ND	300.0	200.0	Tested
Trichloroethene	ND	1.0	0.5	Tested	Ethyl-Ether	ND	300.0	200.0	Tested	Toluene	ND	150.0	100.0	Tested
					Heptane	ND	300.0	200.0	Tested	Xylenes	ND	150.0	100.0	Tested

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Heavy Metal Screening

	LOQ	LOD	Limit	Status	
µg/g	µg/g	µg/g	µg/g		
Arsenic	ND	0.100	0.063	0.200	Pass
Cadmium	ND	0.100	0.063	0.200	Pass
Lead	ND	0.100	0.063	0.500	Pass
Mercury	ND	0.100	0.063	0.100	Pass

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Microbiological Screening

	Result	Status
Aspergillus flavus	Not Detected	Pass
Aspergillus fumigatus	Not Detected	Pass
Aspergillus niger	Not Detected	Pass
Aspergillus terreus	Not Detected	Pass
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	0.050	0.030	Tested
Carbofuran	ND	0.050	0.030	Tested
Chlordane	ND	0.100	0.050	Tested
Chlorfenapyr	ND	0.100	0.050	Tested
Chlorpyrifos	ND	0.050	0.030	Tested
Coumaphos	ND	0.050	0.030	Tested
Daminozide	ND	0.050	0.030	Tested
DDVP	ND	0.050	0.030	Tested
Dimethoate	ND	0.050	0.030	Tested
Ethoprophos	ND	0.050	0.030	Tested
Etofenprox	ND	0.050	0.030	Tested
Fenoxycarb	ND	0.050	0.030	Tested
Fipronil	ND	0.050	0.030	Tested
Imazalil	ND	0.050	0.030	Tested
Methiocarb	ND	0.050	0.030	Tested
Methyl Parathion	ND	0.100	0.050	Tested
Mevinphos	ND	0.050	0.030	Tested
Paclbutrazol	ND	0.050	0.030	Tested
Propoxur	ND	0.050	0.030	Tested
Spiroxamine	ND	0.050	0.030	Tested
Thiacloprid	ND	0.050	0.030	Tested

Mycotoxins	LOQ	LOD	Limit	Status	
	µg/kg	µg/kg	µg/kg	µg/kg	
B1	ND	5.00	3.00	Tested	
B2	ND	5.00	3.00	Tested	
G1	ND	5.00	3.00	Tested	
G2	ND	5.00	3.00	Tested	
Ochratoxin A	ND	10.00	7.00	20.00	Pass
Total Aflatoxins	ND			20.00	Pass

Category 2	LOQ	LOD	Limit	Status	
	µg/g	µg/g	µg/g	µg/g	
Abamectin	ND	0.050	0.030	0.100	Pass
Acephate	ND	0.050	0.030	0.100	Pass
Acequinocyl	ND	0.050	0.030	0.100	Pass
Acetamiprid	ND	0.050	0.030	0.100	Pass
Azoxystrobin	ND	0.050	0.030	0.100	Pass
Bifenazate	ND	0.050	0.030	0.100	Pass
Bifenthrin	ND	0.250	0.100	3.000	Pass
Boscalid	ND	0.050	0.030	0.100	Pass
Captan	ND	0.350	0.200	0.700	Pass
Carbaryl	ND	0.050	0.030	0.500	Pass
Chlorantraniliprole	ND	0.050	0.030	10.000	Pass
Clofentezine	ND	0.050	0.030	0.100	Pass
Cyfluthrin	ND	0.350	0.250	2.000	Pass
Cypermethrin	ND	0.350	0.200	1.000	Pass
Diazinon	ND	0.050	0.030	0.100	Pass
Dimethomorph	ND	0.050	0.030	2.000	Pass
Etoxazole	ND	0.050	0.030	0.100	Pass
Fenhexamid	ND	0.050	0.030	0.100	Pass
Fenpyroximate	ND	0.050	0.030	0.100	Pass
Flonicamid	ND	0.050	0.030	0.100	Pass
Fludioxonil	ND	0.050	0.030	0.100	Pass
Hexythiazox	ND	0.050	0.030	0.100	Pass
Imidacloprid	ND	0.350	0.100	5.000	Pass

Category 2	LOQ	LOD	Limit	Status	
	µg/g	µg/g	µg/g	µg/g	
Kresoxim Methyl	ND	0.050	0.030	0.100	Pass
Malathion	ND	0.050	0.030	0.500	Pass
Metalaxyl	ND	0.050	0.030	2.000	Pass
Methomyl	ND	0.450	0.200	1.000	Pass
Myclobutanil	ND	0.050	0.030	0.100	Pass
Naled	ND	0.100	0.050	0.100	Pass
Oxamyl	ND	0.200	0.100	0.500	Pass
Pentachloronitrobenzene	ND	0.100	0.050	0.100	Pass
Permethrin	ND	0.250	0.100	0.500	Pass
Phosmet	ND	0.050	0.030	0.100	Pass
Piperonyl Butoxide	ND	0.250	0.100	3.000	Pass
Prallethrin	ND	0.050	0.030	0.100	Pass
Propiconazole	ND	0.050	0.030	0.100	Pass
Pyrethrins	ND	0.250	0.100	0.500	Pass
Pyridaben	ND	0.050	0.030	0.100	Pass
Spinetoram	ND	0.050	0.030	0.100	Pass
Spinosad	ND	0.050	0.030	0.100	Pass
Spiromesifen	ND	0.050	0.030	0.100	Pass
Spirotetramat	ND	0.050	0.030	0.100	Pass
Tebuconazole	ND	0.050	0.030	0.100	Pass
Thiamethoxam	ND	0.250	0.100	5.000	Pass
Trifloxystrobin	ND	0.050	0.030	0.100	Pass

Unknown Analyte(s):

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