



Certificate of Analysis

QA SAMPLE - INFORMATIONAL ONLY

1 of 3

ICAL ID: 20190225-039
Sample: 1902ICA0867.2696
CBD Hemp Oil Transdermal Patch
Strain: CBD Hemp Oil Transdermal Patch
Category: Topical

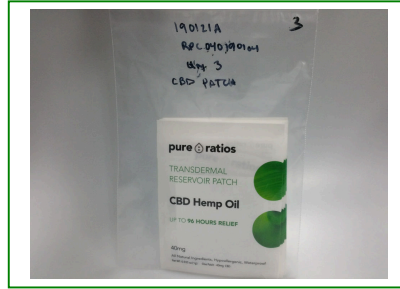
Pure Ratios
Lic. #
San Diego, CA 92110
Lic. #

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

Moisture NT	$\Delta 9$ -THC ND	CBD 38.64 mg/unit	Total Cannabinoids 39.04 mg/unit	Total Terpenes 0.00 mg/g
Water Activity NT				

Summary

Batch	SOP Used	Date Tested	Result
Cannabinoids	SOP:003Topical	02/26/2019	Pass
Terpenes	SOP:TERP.MS.Conc1	02/27/2019	Complete
Residual Solvents	SOP:Inhalalbe	02/27/2019	Pass
Microbials	SOP:qpcrone	02/27/2019	Pass
Mycotoxins	SOP: MYCO EX	02/26/2019	Pass
Pesticides	PEST.Topical	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 = patch, 0.462g

Analyte	LOQ	LOD	%	mg/g	mg/unit	Analyte	LOQ	LOD	%	mg/g	mg/unit
THCa	0.01	0.01	ND	ND	ND	CBDV	0.01	0.01	NR	NR	NR
$\Delta 9$ -THC	0.01	0.01	ND	ND	ND	CBN	0.01	0.01	0.052	0.52	0.24
$\Delta 8$ -THC	0.01	0.01	NR	NR	NR	CBGa	0.01	0.01	ND	ND	ND
THCV	0.01	0.01	NR	NR	NR	CBG	0.01	0.01	0.036	0.36	0.16
CBDa	0.01	0.01	ND	ND	ND	CBC	0.01	0.01	NR	NR	NR
CBD	0.01	0.01	8.363	83.63	38.64	Total			8.451	84.51	39.04

Total THC=THCa * 0.877 + $\Delta 9$ -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 -Bisabolol	0.20	0.10	ND	δ -Limonene	0.20	0.10	ND
α -Humulene	0.20	0.10	ND	Eucalyptol	0.20	0.10	ND
α -Pinene	0.20	0.10	ND	γ -Terpinene	0.20	0.10	ND
α -Terpinene	0.20	0.10	ND	Geraniol	0.20	0.10	ND
β -Caryophyllene	0.20	0.10	ND	Linalool	0.20	0.10	ND
β -Myrcene	0.20	0.10	ND	Ocimene	0.20	0.10	ND
β -Ocimene	0.20	0.10	ND	(-)-Guaiol	0.20	0.10	ND
β -Pinene	0.20	0.10	ND	p-Cymene	0.20	0.10	ND
Camphene	0.20	0.10	ND	Terpinolene	0.20	0.10	ND
Caryophyllene Oxide	0.20	0.10	ND	trans-Nerolidol	0.20	0.10	ND
cis-Nerolidol	0.20	0.10	ND	(-)-Isopulegol			ND
δ -3-Carene	0.20	0.10	ND	Total			0.00

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
02/28/2019

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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	0.5	1.0	Pass	Acetone	ND	300.0	200.0	5000.0	Pass	n-Hexane	ND	35.0	20.0	290.0	Pass
Benzene	ND	1.0	0.5	1.0	Pass	Acetonitrile	ND	150.0	100.0	410.0	Pass	Isopropanol	ND	300.0	200.0	5000.0	Pass
Chloroform	ND	1.0	0.5	1.0	Pass	Butane	ND	300.0	200.0	5000.0	Pass	Methanol	ND	300.0	200.0	3000.0	Pass
Ethylene Oxide	ND	1.0	0.5	1.0	Pass	Ethanol	ND	300.0	200.0	5000.0	Pass	Pentane	ND	300.0	200.0	5000.0	Pass
Methylene-Chloride	ND	1.0	0.5	1.0	Pass	Ethyl-Acetate	ND	300.0	200.0	5000.0	Pass	Propane	ND	300.0	200.0	5000.0	Pass
Trichloroethene	ND	1.0	0.5	1.0	Pass	Ethyl-Ether	ND	300.0	200.0	5000.0	Pass	Toluene	ND	150.0	100.0	890.0	Pass
						Heptane	ND	300.0	200.0	5000.0	Pass	Xylenes	ND	150.0	100.0	2170.0	Pass

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Heavy Metal Screening

	LOQ	LOD	Limit	Status	
	µg/g	µg/g	µg/g	µg/g	
Arsenic	<LOQ	0.100	0.063	1.500	Pass
Cadmium	ND	0.100	0.063	0.500	Pass
Lead	ND	0.100	0.063	0.500	Pass
Mercury	ND	0.100	0.063	3.000	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	0.050	0.030	Pass
Carbofuran	ND	0.050	0.030	Pass
Chlordane	ND	0.100	0.050	Pass
Chlorfenapyr	ND	0.100	0.050	Pass
Chlorpyrifos	ND	0.050	0.030	Pass
Coumaphos	ND	0.050	0.030	Pass
Daminozide	ND	0.050	0.030	Pass
DDVP	ND	0.050	0.030	Pass
Dimethoate	ND	0.050	0.030	Pass
Ethoprophos	ND	0.050	0.030	Pass
Etofenprox	ND	0.050	0.030	Pass
Fenoxycarb	ND	0.050	0.030	Pass
Fipronil	ND	0.050	0.030	Pass
Imazalil	ND	0.050	0.030	Pass
Methiocarb	ND	0.050	0.030	Pass
Methyl Parathion	ND	0.100	0.050	Pass
Mevinphos	ND	0.050	0.030	Pass
Paclbutrazol	ND	0.050	0.030	Pass
Propoxur	ND	0.050	0.030	Pass
Spiroxamine	ND	0.050	0.030	Pass
Thiacloprid	ND	0.050	0.030	Pass

Mycotoxins	LOQ	LOD	Limit	Status	
	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	0.300	Pass
Acephate	ND	0.050	0.030	5.000	Pass
Acequinocyl	ND	0.050	0.030	4.000	Pass
Acetamiprid	ND	0.050	0.030	5.000	Pass
Azoxystrobin	ND	0.050	0.030	40.000	Pass
Bifenazate	ND	0.050	0.030	5.000	Pass
Bifenthrin	ND	0.250	0.100	0.500	Pass
Boscalid	ND	0.050	0.030	10.000	Pass
Captan	ND	0.350	0.200	5.000	Pass
Carbaryl	ND	0.050	0.030	0.500	Pass
Chlorantraniliprole	ND	0.050	0.030	40.000	Pass
Clofentezine	ND	0.050	0.030	0.500	Pass
Cyfluthrin	ND	0.350	0.250	1.000	Pass
Cypermethrin	ND	0.350	0.200	1.000	Pass
Diazinon	ND	0.050	0.030	0.200	Pass
Dimethomorph	ND	0.050	0.030	20.000	Pass
Etoxazole	ND	0.050	0.030	1.500	Pass
Fenhexamid	ND	0.050	0.030	10.000	Pass
Fenpyroximate	ND	0.050	0.030	2.000	Pass
Flonicamid	ND	0.050	0.030	2.000	Pass
Fludioxonil	ND	0.050	0.030	30.000	Pass
Hexythiazox	ND	0.050	0.030	2.000	Pass
Imidacloprid	ND	0.350	0.100	3.000	Pass

Category 2	LOQ	LOD	Limit	Status	
	µg/g	µg/g	µg/g	µg/g	
Kresoxim Methyl	ND	0.050	0.030	1.000	Pass
Malathion	ND	0.050	0.030	5.000	Pass
Metalaxyl	ND	0.050	0.030	15.000	Pass
Methomyl	ND	0.450	0.200	0.100	Pass
Myclobutanil	ND	0.050	0.030	9.000	Pass
Naled	ND	0.100	0.050	0.500	Pass
Oxamyl	ND	0.200	0.100	0.300	Pass
Pentachloronitrobenzene	ND	0.100	0.050	0.200	Pass
Permethrin	ND	0.250	0.100	20.000	Pass
Phosmet	ND	0.050	0.030	0.200	Pass
Piperonyl Butoxide	ND	0.250	0.100	8.000	Pass
Prallethrin	ND	0.050	0.030	0.400	Pass
Propiconazole	ND	0.050	0.030	20.000	Pass
Pyrethrins	ND	0.250	0.100	1.000	Pass
Pyridaben	ND	0.050	0.030	3.000	Pass
Spinetoram	ND	0.050	0.030	3.000	Pass
Spinosad	ND	0.050	0.030	3.000	Pass
Spiromesifen	ND	0.050	0.030	12.000	Pass
Spirotetramat	ND	0.050	0.030	13.000	Pass
Tebuconazole	ND	0.050	0.030	2.000	Pass
Thiamethoxam	ND	0.250	0.100	4.500	Pass
Trifloxystrobin	ND	0.050	0.030	30.000	Pass

Unknown Analyte(s):

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