



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

## 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	<b>Total</b>			<b>8.451</b>	<b>84.51</b>	<b>39.04</b>

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
$\alpha$ -Bisabolol	0.20	0.10	ND	$\delta$ -Limonene	0.20	0.10	ND
$\alpha$ -Humulene	0.20	0.10	ND	Eucalyptol	0.20	0.10	ND
$\alpha$ -Pinene	0.20	0.10	ND	$\gamma$ -Terpinene	0.20	0.10	ND
$\alpha$ -Terpinene	0.20	0.10	ND	Geraniol	0.20	0.10	ND
$\beta$ -Caryophyllene	0.20	0.10	ND	Linalool	0.20	0.10	ND
$\beta$ -Myrcene	0.20	0.10	ND	Ocimene	0.20	0.10	ND
$\beta$ -Ocimene	0.20	0.10	ND	(-)-Guaiol	0.20	0.10	ND
$\beta$ -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
$\delta$ -3-Carene	0.20	0.10	ND	<b>Total</b>			<b>0.00</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  
02/28/2019

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This product has been tested by Infinite Chemical Analysis, LLC using valid testing methodologies and a quality system as required by state law. Values reported relate only to the product tested. Infinite Chemical Analysis, LLC makes no claims as to the efficacy, safety or other risks associated with any detected or non-detected levels of any compounds reported herein. This Certificate shall not be reproduced except in full, without the written approval of Infinite Chemical Analysis, LLC.



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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	Mycotoxins	LOQ	LOD	Limit	Status		
	µg/g	µg/g	µg/g		µg/kg	µg/kg	µg/kg			
Aldicarb	ND	0.050	0.030	Pass	B1	ND	5.00	3.00	Tested	
Carbofuran	ND	0.050	0.030	Pass	B2	ND	5.00	3.00	Tested	
Chlordane	ND	0.100	0.050	Pass	G1	ND	5.00	3.00	Tested	
Chlorfenapyr	ND	0.100	0.050	Pass	G2	ND	5.00	3.00	Tested	
Chlorpyrifos	ND	0.050	0.030	Pass	Ochratoxin A	ND	10.00	7.00	20.00	Pass
Coumaphos	ND	0.050	0.030	Pass	Total Aflatoxins	ND		20.00	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						

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		
Abamectin	ND	0.050	0.030	0.300	Pass	Kresoxim Methyl	ND	0.050	0.030	1.000	Pass
Acephate	ND	0.050	0.030	5.000	Pass	Malathion	ND	0.050	0.030	5.000	Pass
Acequinocyl	ND	0.050	0.030	4.000	Pass	Metalaxyl	ND	0.050	0.030	15.000	Pass
Acetamiprid	ND	0.050	0.030	5.000	Pass	Methomyl	ND	0.450	0.200	0.100	Pass
Azoxystrobin	ND	0.050	0.030	40.000	Pass	Myclobutanil	ND	0.050	0.030	9.000	Pass
Bifenazate	ND	0.050	0.030	5.000	Pass	Naled	ND	0.100	0.050	0.500	Pass
Bifenthrin	ND	0.250	0.100	0.500	Pass	Oxamyl	ND	0.200	0.100	0.300	Pass
Boscalid	ND	0.050	0.030	10.000	Pass	Pentachloronitrobenzene	ND	0.100	0.050	0.200	Pass
Captan	ND	0.350	0.200	5.000	Pass	Permethrin	ND	0.250	0.100	20.000	Pass
Carbaryl	ND	0.050	0.030	0.500	Pass	Phosmet	ND	0.050	0.030	0.200	Pass
Chlorantraniliprole	ND	0.050	0.030	40.000	Pass	Piperonyl Butoxide	ND	0.250	0.100	8.000	Pass
Clofentezine	ND	0.050	0.030	0.500	Pass	Prallethrin	ND	0.050	0.030	0.400	Pass
Cyfluthrin	ND	0.350	0.250	1.000	Pass	Propiconazole	ND	0.050	0.030	20.000	Pass
Cypermethrin	ND	0.350	0.200	1.000	Pass	Pyrethrins	ND	0.250	0.100	1.000	Pass
Diazinon	ND	0.050	0.030	0.200	Pass	Pyridaben	ND	0.050	0.030	3.000	Pass
Dimethomorph	ND	0.050	0.030	20.000	Pass	Spinetoram	ND	0.050	0.030	3.000	Pass
Etoxazole	ND	0.050	0.030	1.500	Pass	Spinosad	ND	0.050	0.030	3.000	Pass
Fenhexamid	ND	0.050	0.030	10.000	Pass	Spiromesifen	ND	0.050	0.030	12.000	Pass
Fenpyroximate	ND	0.050	0.030	2.000	Pass	Spirotetramat	ND	0.050	0.030	13.000	Pass
Flonicamid	ND	0.050	0.030	2.000	Pass	Tebuconazole	ND	0.050	0.030	2.000	Pass
Fludioxonil	ND	0.050	0.030	30.000	Pass	Thiamethoxam	ND	0.250	0.100	4.500	Pass
Hexythiazox	ND	0.050	0.030	2.000	Pass	Trifloxystrobin	ND	0.050	0.030	30.000	Pass
Imidacloprid	ND	0.350	0.100	3.000	Pass						

### Unknown Analyte(s):

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