

# CERTIFICATE OF ANALYSIS



CUSTOMER: HILL CITY HEMP COMPANY, LLC

<b>Order #:</b> 702163 <b>Batch #:</b> 0219184F3 <b>Order Date:</b> 07/08/2019 <b>Collection Date:</b> 07/08/2019 <b>Report Date:</b> 07/15/2019	<b>Specimen Type:</b> Extract <b>Description:</b> 33mg/ mL Full Spectrum CBD Oil Tincture <b>Extracted From:</b> Industrial Hemp <b>Method:</b> SOP-3	<b>Initial Gross Weight:</b> 9607.00(mg) <b>Specimen Weight:</b> 102.17(mg) <b>Density:</b> 0.9421(g/ml)
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**Potency**

			(HPLC)								
Analyte	Result (mg/ml)	(%)	LOQ (%)	Analyte	Result (mg/ml)	(%)	LOQ (%)	Analyte	Result (mg/ml)	(%)	LOQ (%)
CBC	1.434	0.152	0.001	CBCA		ND	0.001	CBD	33.671	3.574	0.001
CBDA	0.572	0.061	0.001	CBDV	0.491	0.052	0.001	CBDVA		ND	0.001
CBG	0.319	0.034	0.001	CBGA		ND	0.001	CBL		ND	0.001
CBN	0.135	0.014	0.001	CBNA		ND	0.001	Delta-8-THC		ND	0.001
Delta-9-THC	1.631	0.173	0.001	THCA-A		ND	0.001	THCV		ND	0.001
THCVA		ND	0.001	<b>Total CBD</b>	<b>34.173</b>	<b>3.627</b>	<b>0.001</b>	<b>Total THC</b>	<b>1.631</b>	<b>0.173</b>	<b>0.001</b>

**Pesticides ( Passed )**

			(LCMS/MS)								
Analyte	Action Level (ppm)	Result (ppm)	LOQ (ppm)	Analyte	Action Level (ppm)	Result (ppm)	LOQ (ppm)	Analyte	Action Level (ppm)	Result (ppm)	LOQ (ppm)
Abamectin	0.500	<LOQ	0.100	Acephate	0.400	<LOQ	0.100	Acequinocyl	2.000	<LOQ	0.750
Acetamiprid	0.200	<LOQ	0.100	Aldicarb	0.400	<LOQ	0.100	Azoxystrobin	0.200	<LOQ	0.100
Bifenazate	0.200	<LOQ	0.100	Bifenthrin	0.200	<LOQ	0.100	Boscalid	0.400	<LOQ	0.100
Carbaryl	0.200	<LOQ	0.100	Carbofuran	0.200	<LOQ	0.100	Chlorantraniliprole	0.200	<LOQ	0.100
Chlorpyrifos	0.200	<LOQ	0.100	Clofentazine	0.200	<LOQ	0.100	Cypermethrin	1.000	<LOQ	0.100
Daminozide	1.000	<LOQ	0.100	Diazinon	0.200	<LOQ	0.100	Dichlorvos	0.100	<LOQ	0.100
Dimethoate	0.200	<LOQ	0.100	Ethoprophos	0.200	<LOQ	0.100	Etofenprox	0.400	<LOQ	0.100
Etoxazole	0.200	<LOQ	0.100	Fenoxycarb	0.200	<LOQ	0.100	Fipronil	0.400	<LOQ	0.100
Fonicamid	1.000	<LOQ	0.100	Fludioxonil	0.400	<LOQ	0.100	Hexythiazox	1.000	<LOQ	0.100
Imazalil	0.200	<LOQ	0.100	Imidacloprid	0.400	<LOQ	0.100	Kresoxim Methyl	0.400	<LOQ	0.100
Malathion A	0.200	<LOQ	0.100	Metalaxyl	0.200	<LOQ	0.100	Methiocarb	0.200	<LOQ	0.100
Methomyl	0.400	<LOQ	0.100	MGK-264	0.200	<LOQ	0.100	Myclobutanil	0.200	<LOQ	0.100
Naled	0.500	<LOQ	0.100	Oxamyl	1.000	<LOQ	0.100	Paclobutrazol	0.400	<LOQ	0.100
Parathion-methyl	0.200	<LOQ	0.250	Permethrin	0.200	<LOQ	0.100	Phosmet	0.200	<LOQ	0.100
Piperonylbutoxide	2.000	<LOQ	0.100	Prallethrin	0.200	<LOQ	0.100	Propiconazole	0.400	<LOQ	0.100
Propoxur	0.200	<LOQ	0.100	Pyrethrins	1.000	<LOQ	0.100	Pyridaben	0.200	<LOQ	0.100
Spinosyn A	0.200	<LOQ	0.100	Spinosyn D	0.200	<LOQ	0.100	Spiromesifen	0.200	<LOQ	0.100
Spirotetramat	0.200	<LOQ	0.100	Spiroxamine	0.400	<LOQ	0.100	Tebuconazole	0.400	<LOQ	0.100
Thiacloprid	0.200	<LOQ	0.100	Thiamethoxam	0.200	<LOQ	0.100	Trifloxystrobin	0.200	<LOQ	0.100

Thomas Farrell, MD  
Lab Director

\* Total CBD = CBD + (CBD-A \* 0.877). Total THC = THCA-A \* 0.877 + Delta 9 THC, ND = <LOQ, T-Caryophyllene = Trans-Caryophyllene, <LOQ = Less Than Limit of Quantitation, QNS = Quantity Not Sufficient. (%) = Percent, (ppm) = Parts per Million, (ppb) = Parts per Billion, (µg/Kg) = Microgram per Kilogram, (mg/g) = Milligram per Gram, ppm = (µg/g), ppb = (µg/kg),

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### Residual Solvents ( Passed )

(GC/GCMS)			
Analyte	Action Level (ppm)	Result (ppm)	LOQ (ppm)
Acetone	5,000.000	<LOQ	87.900
Ethanol	5,000.000	<LOQ	26.700
Methanol	3,000.000	<LOQ	87.900
Toluene	890.000	<LOQ	38.400

### Heavy Metals ( Passed )

(ICP-MS)			
Analyte	Action Level (ppb)	Result (ppb)	LOQ (ppb)
Arsenic (As)	500.000	<LOQ	100.000
Mercury (Hg)	500.000	<LOQ	100.000

### Mycotoxins ( Passed )

(LCMS/MS)			
Analyte	Action Level (ppb)	Result (ppb)	LOQ (ppb)
Aflatoxin B1	<LOQ	<LOQ	15.000
Aflatoxin G2	<LOQ	<LOQ	15.000

### Terpenes

(GC/GCMS)			
Analyte	Result (mg/g)	(%)	LOQ (%)
3-Carene	ND	0.001	0.001
Alpha-Terpinene	ND	0.001	0.001
Beta-Myrcene	ND	0.001	0.001
Fenchol	ND	0.002	0.001
Geraniol	ND	0.001	0.001
Isopulegol	ND	0.001	0.001
Nerolidol-2	ND	0.001	0.001
P-Cymene	ND	0.001	0.001
Trans-Caryophyllene	ND	0.001	0.001

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## Microbiology (qPCR) ( Passed ) (qPCR)

Analyte	Result	Analyte	Result	Analyte	Result
Total Aerobic Count	Passed	Total Coliform	Passed	Total Enterobacteriaceae	Passed
Total Yeast/Mold	Passed				

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