



# CERTIFICATE OF ANALYSIS

**Customer:** Balanced Health Botanicals - Sheridan, CO 80110

<b>Order #:</b> 702262	<b>Specimen Type:</b> Extract	<b>Initial Gross Weight:</b> 8570.00(mg)
<b>Batch #:</b> 0119189B4	<b>Description:</b> Bulk 83mg/mL Full Spectrum	<b>Specimen Weight:</b> 84.00(mg)
<b>Order Date:</b> 07/10/2019	<b>CBD Oil Tincture</b>	<b>Net Weight:</b> 3240(mg)
<b>Collection Date:</b> 07/10/2019	<b>Extracted From:</b> Industrial Hemp	<b>Density:</b> .950628(g/ml)
<b>Report Date:</b> 07/16/2019	<b>Method:</b> SOP-3	

Potency (HPLC)											
Analyte	Result (mg/ml)	(%)	LOQ (%)	Analyte	Result (mg/ml)	(%)	LOQ (%)	Analyte	Result (mg/ml)	(%)	LOQ (%)
CBC	1.318	0.139	0.001	CBCA	ND	ND	0.001	CBD	87.667	9.222	0.001
CBDA	0.755	0.079	0.001	CBDV	0.464	0.049	0.001	CBDA	ND	ND	0.001
CBG	0.806	0.085	0.001	CBGA	ND	ND	0.001	CBL	ND	ND	0.001
CBN	ND	ND	0.001	CBNA	ND	ND	0.001	Delta-8-THC	ND	ND	0.001
Delta-9-THC	2.193	0.231	0.001	THCA-A	ND	ND	0.001	THCV	ND	ND	0.001
THCVA	ND	ND	0.001	<b>Total CBD</b>	<b>88.329</b>	<b>9.292</b>	<b>0.001</b>	<b>Total THC</b>	<b>2.193</b>	<b>0.231</b>	<b>0.001</b>

Potency Totals			
Analyte	Result (mg)	(%)	
<b>CBD Total</b>	<b>301.061</b>	<b>9.292</b>	
<b>THC Total</b>	<b>7.484</b>	<b>0.231</b>	
<b>CBG Total</b>	<b>2.754</b>	<b>0.085</b>	
<b>CBN Total</b>	<b>ND</b>		
<b>Other Cannabinoids Total</b>	<b>6.059</b>	<b>0.187</b>	
<b>Total Detected Cannabinoids</b>	<b>317.358</b>	<b>9.795</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	Cyflotenzine	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	Pacllobutrazol	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. \*CBG Total = (CBGA \* 0.877) + CBG, \*CBN Total = (CBNA \* 0.877) + CBN, \*Other Cannabinoids Total = CBC + CBDV + THC + THCV + THCV-A, \*Total Detected Cannabinoids = CBD Total + CBG Total + CBN Total + THC Total + CBC + CBDV + THC + THCV + THCV-A, \*Total (mg) = Total (%) + 100 \* Net Weight(mg), 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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# CERTIFICATE OF ANALYSIS

**Customer:** Balanced Health Botanicals - Sheridan, CO 80110

**Order #:** 702262  
**Batch #:** 0119189B4  
**Order Date:** 07/10/2019  
**Collection Date:** 07/10/2019  
**Report Date:** 07/16/2019

**Specimen Type:** Extract  
**Description:** Bulk 83mg/mL Full Spectrum  
 CBD Oil Tincture  
**Extracted From:** Industrial Hemp  
**Method:** SOP-3

**Initial Gross Weight:** 8570.00(mg)  
**Specimen Weight:** 84.00(mg)  
**Net Weight:** 3240(mg)  
**Density:** .950628(g/ml)

## Residual Solvents ( Passed )

Residual Solvents ( Passed )								(GC/GCMS)			
Analyte	Action Level (ppm)	Result (ppm)	LOQ (ppm)	Analyte	Action Level (ppm)	Result (ppm)	LOQ (ppm)	Analyte	Action Level (ppm)	Result (ppm)	LOQ (ppm)
Acetone	5,000.000	<LOQ	87.900	Benzene	1.600	<LOQ	1.600	Chloroform	53.000	<LOQ	53.000
Ethanol	5,000.000	<LOQ	26.700	I-Butane	5,000.000	<LOQ	100.000	Isopropanol	5,000.000	<LOQ	52.300
Methanol	3,000.000	<LOQ	87.900	N-Butane	5,000.000	<LOQ	200.000	Pentane	5,000.000	<LOQ	389.500
Toluene	890.000	<LOQ	38.400								

## Heavy Metals ( Passed )

Heavy Metals ( Passed )								(ICP-MS)			
Analyte	Action Level (ppb)	Result (ppb)	LOQ (ppb)	Analyte	Action Level (ppb)	Result (ppb)	LOQ (ppb)	Analyte	Action Level (ppb)	Result (ppb)	LOQ (ppb)
Arsenic (As)	500.000	<LOQ	100.000	Cadmium (Cd)	500.000	<LOQ	100.000	Lead (Pb)	500.000	<LOQ	100.000
Mercury (Hg)	500.000	<LOQ	100.000								

## Mycotoxins ( Passed )

Mycotoxins ( Passed )								(LCMS/MS)			
Analyte	Action Level (ppb)	Result (ppb)	LOQ (ppb)	Analyte	Action Level (ppb)	Result (ppb)	LOQ (ppb)	Analyte	Action Level (ppb)	Result (ppb)	LOQ (ppb)
Aflatoxin B1		<LOQ	15.000	Aflatoxin B2		<LOQ	15.000	Aflatoxin G1		<LOQ	15.000
Aflatoxin G2		<LOQ	15.000	Aflatoxin Total	20.000	<LOQ	15.000	Ochratoxin A	20.000	<LOQ	15.000

## Terpenes

Terpenes								(GC/GCMS)			
Analyte	Result (mg/g)	(%)	LOQ (%)	Analyte	Result (mg/g)	(%)	LOQ (%)	Analyte	Result (mg/g)	(%)	LOQ (%)
3-Carene		ND	0.001	Alpha-Bisabolol		ND	0.001	Alpha-Pinene		ND	0.002
Alpha-Terpinene		ND	0.001	Alpha-Terpineol		ND	0.001	Aromadendrene		ND	0.001
Beta-Myrcene		ND	0.001	Beta-Pinene		ND	0.001	Camphene		ND	0.001
Fenchol		ND	0.002	Gamma-Terpinene		ND	0.001	Gamma-Terpineol		ND	0.002
Geraniol		ND	0.001	Guaiol		ND	0.001	Humulene		ND	0.001
Isopulegol		ND	0.001	Linalool		ND	0.001	Nerolidol-1		ND	0.001
Nerolidol-2		ND	0.001	Ocimene-1		ND	0.001	Ocimene-2		ND	0.001
P-Cymene		ND	0.001	R-Limonene		ND	0.000	Terpinolene		ND	0.001
Trans-Caryophyllene	0.070	0.007	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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Lab Director

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