



# CERTIFICATE OF ANALYSIS

Customer: Balanced Health Botanicals - Sheridan, CO 80110

<b>Order #:</b> 705290	<b>Specimen Type:</b> Extract	<b>Initial Gross Weight:</b> 74154.00(mg)
<b>Batch #:</b> 0119256F5	<b>Description:</b> 167mg/mL Full Spectrum CBD	<b>Specimen Weight:</b> 105.03(mg)
<b>Order Date:</b> 09/16/2019	<b>Oil Tincture</b>	<b>Density:</b> 0.958492(g/ml)
<b>Collection Date:</b> 09/16/2019	<b>Extracted From:</b> Industrial Hemp	
<b>Report Date:</b> 09/24/2019	<b>Method:</b> SOP-3	

Potency				(HPLC)			
Analyte	Result (mg/ml)	(%)	LOQ (%)	Analyte	Result (mg/ml)	(%)	LOQ (%)
CBC	2.091	0.218	0.001	CBCA	ND	ND	0.001
CBDA	0.602	0.063	0.001	CBDV	1.131	0.118	0.001
CBG	0.713	0.074	0.001	CBGA	ND	ND	0.001
CBN	ND	ND	0.001	CBNA	ND	ND	0.001
Delta-9-THC	2.677	0.279	0.001	THCA-A	ND	ND	0.001
THCVA	ND	ND	0.001	Total CBD	188.392	19.655	0.001
				CBD	187.864	19.600	0.001
				CBDVA	ND	ND	0.001
				CBL	0.206	0.022	0.001
				Delta-8-THC	ND	ND	0.001
				THCV	ND	ND	0.001
				Total THC	2.677	0.279	0.001

Pesticides ( Passed )				(LCMS/MS)			
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
Acetamiprid	0.200	<LOQ	0.100	Aldicarb	0.400	<LOQ	0.100
Bifenazate	0.200	<LOQ	0.100	Bifenthrin	0.200	<LOQ	0.100
Carbaryl	0.200	<LOQ	0.100	Carbofuran	0.200	<LOQ	0.100
Chlorpyrifos	0.200	<LOQ	0.100	Clofentezine	0.200	<LOQ	0.100
Daminozide	1.000	<LOQ	0.100	Diazinon	0.200	<LOQ	0.100
Dimethoate	0.200	<LOQ	0.100	Ethionphos	0.200	<LOQ	0.100
Etoxazole	0.200	<LOQ	0.100	Fenoxycarb	0.200	<LOQ	0.100
Fonicamid	1.000	<LOQ	0.100	Fludioxonil	0.400	<LOQ	0.100
Imazalil	0.200	<LOQ	0.100	Imidacloprid	0.400	<LOQ	0.100
Malathion A	0.200	<LOQ	0.100	Metalaxyl	0.200	<LOQ	0.100
Methomyl	0.400	<LOQ	0.100	MGK-264	0.200	<LOQ	0.100
Naled	0.500	<LOQ	0.100	Oxamyl	1.000	<LOQ	0.100
Parathion-methyl	0.200	<LOQ	0.250	Permethrin	0.200	<LOQ	0.100
Piperonylbutoxide	2.000	<LOQ	0.100	Prallethrin	0.200	<LOQ	0.100
Propoxur	0.200	<LOQ	0.100	Pyrethrins	1.000	<LOQ	0.100
Spinosyn A	0.200	<LOQ	0.100	Spinosyn D	0.200	<LOQ	0.100
Spirotetramat	0.200	<LOQ	0.100	Spiroxamine	0.400	<LOQ	0.100
Thiacloprid	0.200	<LOQ	0.100	Thiamethoxam	0.200	<LOQ	0.100
				Acequinocyl	2.000	<LOQ	0.750
				Azoxystrobin	0.200	<LOQ	0.100
				Boscalid	0.400	<LOQ	0.100
				Chlorantraniliprole	0.200	<LOQ	0.100
				Cypermethrin	1.000	<LOQ	0.100
				Dichlorvos	0.100	<LOQ	0.100
				Etofenprox	0.400	<LOQ	0.100
				Fipronil	0.400	<LOQ	0.100
				Hexthiazox	1.000	<LOQ	0.100
				Kresoxim Methyl	0.400	<LOQ	0.100
				Methiocarb	0.200	<LOQ	0.100
				Myclobutanil	0.200	<LOQ	0.100
				Pacllobutrazol	0.400	<LOQ	0.100
				Phosmet	0.200	<LOQ	0.100
				Propiconazole	0.400	<LOQ	0.100
				Pyridaben	0.200	<LOQ	0.100
				Spiromesifen	0.200	<LOQ	0.100
				Tebuconazole	0.400	<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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<b>Order Date:</b> 09/16/2019	Oil Tincture	<b>Density:</b> 0.958492(g/ml)
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**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 )** (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 )** (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	6.000	Ochratoxin A	20.000	<LOQ	15.000

**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	0.090	0.009	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	0.050	0.005	0.000	Terpinolene		ND	0.001
Trans-Caryophyllene	0.050	0.005	0.001								

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Microbiology (qPCR) ( Passed )				(qPCR)	
Analyte	Remark	Analyte	Remark	Analyte	Remark
Total Aerobic Count	Passed	Total Coliform	Passed	Total Enterobacteriaceae	Passed
Total Yeast/Mold	Passed				

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