



CERTIFICATE OF ANALYSIS

Customer: Balanced Health Botanicals - Sheridan, CO 80110

Order #: 703239	Specimen Type: Extract	Initial Gross Weight: 9572.00(mg)
Batch #: 021921112	Description: 33mg/mL THC Free Pure CBD	Specimen Weight: 111.43(mg)
Order Date: 08/02/2019	Oil Tincture	Density: 0.94121(g/ml)
Collection Date: 08/02/2019	Extracted From: Industrial Hemp	
Report Date: 08/08/2019	Method: SOP-3	

Potency							(HPLC)				
Analyte	Result (mg/ml)	(%)	LOQ (%)	Analyte	Result (mg/ml)	(%)	LOQ (%)	Analyte	Result (mg/ml)	(%)	LOQ (%)
CBC	ND	<LOQ	0.100	CBCA	ND	<LOQ	0.001	CBD	35.088	3.728	0.001
CBDA	ND	<LOQ	0.001	CBDA	0.134	0.014	0.001	CBDA	ND	<LOQ	0.001
CBG	ND	<LOQ	0.001	CBGA	ND	<LOQ	0.001	CBL	ND	<LOQ	0.001
CBN	ND	<LOQ	0.001	CBNA	ND	<LOQ	0.001	Delta-8-THC	ND	<LOQ	0.001
Delta-9-THC	ND	<LOQ	0.001	THCA-A	ND	<LOQ	0.001	THCV	ND	<LOQ	0.001
THCVA	ND	<LOQ	0.001	Total CBD	35.088	3.728	0.001	Total THC	ND	<LOQ	0.001

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	Clofentezine	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	Ethionphos	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	Hexthiazox	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	Paclobotrazol	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)	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	15.000	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	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	ND	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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