



CERTIFICATE OF ANALYSIS

Customer: Balanced Health Botanicals - Sheridan, CO 80110

Order #: 704036	Specimen Type: Extract	Initial Gross Weight: 77264.00(mg)
Batch #: 0119231F6	Description: 20mg/ml CBD Pet Tincture	Specimen Weight: 118.11(mg)
Order Date: 08/21/2019	Extracted From: Industrial Hemp	Net Weight: 26998(mg)
Collection Date: 08/21/2019	Method: SOP-3	Density: 0.981(g/ml)
Report Date: 09/05/2019		

Potency Details (HPLC)											
Analyte	Result (mg/ml)	(%)	LOQ (%)	Analyte	Result (mg/ml)	(%)	LOQ (%)	Analyte	Result (mg/ml)	(%)	LOQ (%)
CBC	0.612	0.062	0.001	CBCA	ND	ND	0.001	CBD	22.112	2.254	0.001
CBDA	ND	ND	0.001	CBDV	ND	ND	0.001	CBDVA	ND	ND	0.001
CBG	0.179	0.018	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	1.209	0.123	0.001	THCA-A	ND	ND	0.001	THCV	ND	ND	0.001
THCVA	ND	ND	0.001	Total CBD	22.112	2.254	0.001	Total THC	1.209	0.123	0.001

Potency Totals		
Analyte	Result (mg)	(%)
CBD Total	608.535	2.254
THC Total	33.208	0.123
CBG Total	4.860	0.018
CBN Total	ND	ND
Other Cannabinoids Total	16.739	0.062
Total Detected Cannabinoids	663.611	2.458

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	Paclbutrazol	0.400	<LOQ	0.100
Parathion-methyl	0.200	<LOQ	0.100	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	Pvridaben	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 + THCV + THCVA. *Total Detected Cannabinoids = CBD Total + CBG Total + CBN Total + THC Total + CBC + CBDV + THCV + THCVA. *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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Collection Date: 08/21/2019	Method: SOP-3	Density: 0.981(g/ml)
Report Date: 09/05/2019		

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

Heavy Metals (Passed)				(ICP-MS)			
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
Mercury (Hg)	500.000	<LOQ	100.000	Lead (Pb)	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)
Aflatoxin B1	<LOQ	<LOQ	15.000	Aflatoxin B2	<LOQ	<LOQ	15.000
Aflatoxin G2	<LOQ	<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 (%)
3-Carene	ND	0.001	0.001	Alpha-Bisabolol	ND	0.001	0.001
Alpha-Terpinene	ND	0.001	0.001	Alpha-Terpineol	ND	0.001	0.001
Beta-Myrcene	ND	0.001	0.001	Beta-Pinene	ND	0.001	0.001
Fenchol	ND	0.002	0.001	Gamma-Terpinene	ND	0.001	0.001
Geraniol	ND	0.001	0.001	Guaiol	ND	0.001	0.001
Isopulegol	ND	0.001	0.001	Linalool	ND	0.001	0.001
Nerolidol-2	ND	0.001	0.001	Ocimene-1	ND	0.001	0.001
P-Cymene	ND	0.001	0.001	R-Limonene	ND	0.000	0.000
Trans-Caryophyllene	ND	0.001	0.001	Alpha-Pinene	ND	0.002	0.002
				Aromadendrene	ND	0.001	0.001
				Camphene	ND	0.001	0.001
				Gamma-Terpineol	ND	0.002	0.002
				Humulene	ND	0.001	0.001
				Nerolidol-1	ND	0.001	0.001
				Ocimene-2	ND	0.001	0.001
				Terpinolene	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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