



CERTIFICATE OF ANALYSIS



Customer: Balanced Health Botanicals - Sheridan, CO 80110

Order #: 709517
Batch #: 0219323F2
Order Date: 11/26/2019
Collection Date: 11/26/2019
Report Date: 12/03/2019

Specimen Type: Extract
Description: 17mg/ml Full Spectrum CBD Oil Tincture
Extracted From: Industrial Hemp
Method: SOP-3

Initial Gross Weight: 38805.00(mg)
Specimen Weight: 100.65(mg)
Density: 0.939216(g/ml)

Potency - 11

(HPLC)

Analyte	Result (mg/ml)	(%)	LOQ (%)	Analyte	Result (mg/ml)	(%)	LOQ (%)	Analyte	Result (mg/ml)	(%)	LOQ (%)
CBC	0.571	0.061	0.001	CBD	17.009	1.811	0.001	CBDA		ND	0.001
CBDV		ND	0.001	CBG	0.198	0.021	0.001	CBGA		ND	0.001
CBN		ND	0.001	Delta-8-THC		ND	0.001	Delta-9-THC	0.796	0.085	0.001
THCA-A		ND	0.001	THCV		ND	0.001	Total CBD	17.009	1.811	0.001
Total THC	0.796	0.085	0.001								

Pesticides (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)
Abamectin	100.000	<LOQ	30.000	Acephate	100.000	<LOQ	30.000	Acequinocyl	100.000	<LOQ	48.000
Acetamiprid	100.000	<LOQ	30.000	Aldicarb	50.000	<LOQ	30.000	Azoxystrobin	50.000	<LOQ	30.000
Bifenazate	100.000	<LOQ	30.000	Bifenthrin	100.000	<LOQ	30.000	Chlorfenapyr	50.000	<LOQ	30.000
Chlorpyrifos	100.000	<LOQ	30.000	Clofentezine	200.000	<LOQ	30.000	Coumaphos	50.000	<LOQ	30.000
Cyfluthrin	100.000	<LOQ	30.000	Cypermethrin	500.000	<LOQ	30.000	Daminozide	500.000	<LOQ	30.000
DDVP(Dichlorvos)	100.000	<LOQ	30.000	Diazinon	50.000	<LOQ	30.000	Dimethoate	50.000	<LOQ	30.000
Dimethomorph	50.000	<LOQ	30.000	Ethoprop(hos)	50.000	<LOQ	30.000	Etofenprox	50.000	<LOQ	30.000
Etoxazole	50.000	<LOQ	30.000	Fenhexamid	100.000	<LOQ	30.000	Fenoxycarb	50.000	<LOQ	30.000
Fipronil	50.000	<LOQ	30.000	Flonicamid	400.000	<LOQ	30.000	Fludioxonil	100.000	<LOQ	30.000
Hexythiazox	250.000	<LOQ	30.000	Imazalil	100.000	<LOQ	30.000	Imidacloprid	100.000	<LOQ	30.000
Kresoxim Methyl	100.000	<LOQ	30.000	Malathion A	200.000	<LOQ	30.000	Metalaxyl	50.000	<LOQ	30.000
Methiocarb	50.000	<LOQ	30.000	Methomyl	100.000	<LOQ	30.000	Mevinphos	50.000	<LOQ	30.000
Myclobutanil	100.000	<LOQ	30.000	Naled	250.000	<LOQ	30.000	Oxamyl	250.000	<LOQ	30.000
Paclobutrazol	50.000	<LOQ	30.000	Parathion-methyl	100.000	<LOQ	30.000	Pentachloronitrobenzene	50.000	<LOQ	30.000
Permethrin	100.000	<LOQ	30.000	Phosmet	100.000	<LOQ	30.000	Piperonylbutoxide	3,000.000	<LOQ	30.000
Prallethrin	100.000	<LOQ	30.000	Propiconazole	100.000	<LOQ	30.000	Propoxur	100.000	<LOQ	30.000
Pyrethrins	500.000	<LOQ	30.000	Pyridaben	200.000	<LOQ	30.000	Spinetoram	200.000	<LOQ	30.000
Spinosyn A	100.000	<LOQ	30.000	Spinosyn D	100.000	<LOQ	30.000	Spiromesifen	100.000	<LOQ	30.000
Spirotetramat	100.000	<LOQ	30.000	Spiroxamine	50.000	<LOQ	30.000	Tebuconazole	50.000	<LOQ	30.000
Thiacloprid	50.000	<LOQ	30.000	Thiamethoxam	50.000	<LOQ	30.000	Trifloxystrobin	100.000	<LOQ	30.000

Xueli Gao, Ph.D., DABT
Lab Toxicologist

Aixia Sun, D.H.Sc., M.Sc., B.Sc., MT (AAB)
Principal Scientist

* 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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Terpenes - FL

(GC/GCMS)

Analyte	Result (mg/g)	(%)	LOQ (%)	Analyte	Result (mg/g)	(%)	LOQ (%)	Analyte	Result (mg/g)	(%)	LOQ (%)
(+)-Cedrol	ND		0.001	(R)-(+)-Limonene	ND		0.001	3-Carene	ND		0.001
Alpha-Bisabolol	ND		0.001	alpha-Cedrene	ND		0.001	alpha-Humulene	ND		0.001
alpha-Phellandrene	ND		0.001	alpha-Pinene	ND		0.001	alpha-Terpinene	ND		0.001
beta-Myrcene	ND		0.001	beta-Pinene	ND		0.001	Borneol	ND		0.001
Camphene	ND		0.001	Camphors	ND		0.001	Carvophyllene oxide	ND		0.001
cis-Nerolidol	ND		0.001	Eucalyptol	ND		0.001	Farnesene	ND		0.001
Fenchone	ND		0.001	Fenchyl Alcohol	ND		0.001	gamma-Terpinene	ND		0.001
Geraniol	ND		0.001	Geranyl acetate	ND		0.001	Guaiol	ND		0.001
Hexahydrothymol	ND		0.001	Isoborneol	ND		0.001	Isopulegol	ND		0.001
Linalool	ND		0.001	Nerol	ND		0.001	Ocimene	ND		0.001
Pulegone	ND		0.001	Sabinene	ND		0.001	Sabinene Hydrate	ND		0.001
Terpineol	ND		0.001	Terpinolene	ND		0.001	trans-beta-Ocimene	ND		0.001
trans-Caryophyllene	ND		0.001	trans-Nerolidol	ND		0.001	Valencene	ND		0.001

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Residual Solvents - FL (Passed)

Analyte	Action Level (ppm)	Result (ppm)	LOQ (ppm)	Analyte	Action Level (ppm)	Result (ppm)	LOQ (ppm)	Analyte	Action Level (ppm)	Result (ppm)	LOQ (ppm)
1,1-Dichloroethene	8.000	<LOQ	0.132	1,2-dichloroethane	2.000	<LOQ	0.032	Acetone	750.000	<LOQ	12.000
Acetonitrile	60.000	<LOQ	0.960	Benzene	1.000	<LOQ	0.016	Butanes	2,000.000	<LOQ	13.320
Chloroform	2.000	<LOQ	0.032	Ethanol	5,000.000	<LOQ	16.000	Ethyl Acetate	400.000	<LOQ	6.400
Ethyl Ether	500.000	<LOQ	8.000	Ethylene Oxide	5.000	<LOQ	0.320	Heptane	500.000	<LOQ	8.000
Hexane	250.000	<LOQ	0.800	Isopropyl alcohol	500.000	<LOQ	8.000	Methanol	250.000	<LOQ	4.000
Methylene chloride	125.000	<LOQ	2.000	Pentane	750.000	<LOQ	12.000	Propane	2,100.000	<LOQ	26.668
Toluene	150.000	<LOQ	2.400	Total Xylenes	150.000	<LOQ	7.200	Trichloroethene	25.000	<LOQ	0.400

Microbiology - Plating Method

Analyte	Result (cfu/g)	LOQ (cfu/g)	Analyte	Result (cfu/g)	LOQ (cfu/g)	Analyte	Result (cfu/g)	LOQ (cfu/g)
Aerobic Bacteria	<10	10	E. Coli / Coliform	<10	10	Yeast/Mold	<10	10

Heavy Metals (Passed)

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)

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	6.000	Aflatoxin B2		<LOQ	6.000	Aflatoxin G1		<LOQ	6.000
Aflatoxin G2		<LOQ	6.000	Aflatoxin Total	20.000	<LOQ	6.000	Ochratoxin A	20.000	<LOQ	12.000

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Water Activity

(AquaLab 4TE)

Analyte	Action Level (aw)	Result (aw)
Water Activity	0.850	0.243

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