

Order #: BAL200326-130075      Order Date: 2020-03-26      Collection Date: 2020-03-27      Report Date: 2020-04-06

Batch #: 2200492  
Sample #: AAAE379  
Specimen Type: CBD/HEMP Derivative Products (Ingestion)  
Extracted From: Industrial Hemp  
Description: 83MG/ML BSO Tincture

Initial Gross Weight: 97863mg  
Net Weight: 29573  
Density: .9423  
Method: SOP-3



Potency <b>Tested</b>	Residual Solvents <b>Passed</b>	Mycotoxins <b>Passed</b>
Heavy Metals <b>Passed</b>	Terpenes <b>Tested</b>	Microbiology Petrifilm <b>Passed</b>
Pesticides <b>Passed</b>	Water Activity <b>Passed</b>	



The photos on this report are of a sample collected by the lab and may vary from the final packaging.

<b>CBD Total</b> 9.8390%      2,909.6875mg	<b>THC Total</b> Not Detected	<b>CBG Total</b> 0.3532%      104.4518mg
<b>CBN Total</b> Not Detected	<b>Other Cannabinoids</b> 0.0849%      25.1075mg	<b>Total Cannabinoids</b> 10.2771%      3,039.2468mg

**Potency - 11 (Tested)**

Potency - 11 (Tested)								(HPLC)			
Analyte	Result (mg/ml)	(%)	LOQ (%)	Analyte	Result (mg/ml)	(%)	LOQ (%)	Analyte	Result (mg/ml)	(%)	LOQ (%)
CBC	0.274	0.029	0.001	CBD	92.713	9.839	0.001	CBDA	<LOQ		0.001
CBDV	0.526	0.056	0.001	CBG	3.328	0.353	0.001	CBGA	<LOQ		0.001
CBN	<LOQ		0.001	Delta-8 THC	<LOQ		0.1	Delta-9 THC	<LOQ		0.1
THCA-A	<LOQ		0.1	THCV	<LOQ		0.1	Total CBD	92.713	9.839	0.001
Total THC	<LOQ		0.1								

\*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 + THCV + THCV-A, \*Total (mg) = Total (%) ÷ 100 \* Net Weight(mg) (mg/ml) = Milligrams per Milliliter, LOQ = Limit of Quantitation

Xueli Gao      Lab Toxicologist  
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### Residual Solvents - FL (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)
1,1-Dichloroethene	8	<LOQ	0.132	1,2-dichloroethane	5	<LOQ	0.032	Acetone	5000	<LOQ	12
Benzene	2	<LOQ	0.016	Butanes	2000	<LOQ	13.32	Acetonitrile	410	<LOQ	0.96
Ethanol	5000	<LOQ	16	Ethyl Acetate	5000	<LOQ	6.4	Chloroform	60	<LOQ	0.032
Ethylene Oxide	5	<LOQ	0.32	Heptane	5000	<LOQ	8	Ethyl Ether	5000	<LOQ	8
Isopropyl alcohol	500	<LOQ	8	Methanol	3000	<LOQ	4	Hexane	290	<LOQ	0.8
Pentane	5000	<LOQ	12	Petroleum Ether	400	<LOQ	6.4	Methylene chloride	600	<LOQ	2
Toluene	890	<LOQ	2.4	Total Xylenes	2170	<LOQ	7.2	Propane	2100	<LOQ	26.668
Xylenes(o)	2170	<LOQ	7.2	Xylenes(p/m)	2170	<LOQ	7.2	Trichloroethene	80	<LOQ	0.4

(ppm) = Parts per Million, (ppm) = (µg/g), , LOQ = Limit of Quantitation

### 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	6	Aflatoxin B2		<LOQ	6	Aflatoxin G1		<LOQ	6
Aflatoxin G2		<LOQ	6	Aflatoxin Total	20	<LOQ	6	Ochratoxin A	20	<LOQ	12

(ppb) = Parts per Billion, (ppb) = (µg/kg), , LOQ = Limit of Quantitation

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## 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)	1500	<LOQ	100	Cadmium (Cd)	500	<LOQ	100	Lead (Pb)	500	<LOQ	100
Mercury (Hg)	3000	<LOQ	100								

(ppb) = Parts per Billion, (ppb) = (µg/kg), , LOQ = Limit of Quantitation

## Terpenes - FL (Tested) (GC/GCMS)

Analyte	Result (mg/g)	(%)	LOQ (%)	Analyte	Result (mg/g)	(%)	LOQ (%)	Analyte	Result (mg/g)	(%)	LOQ (%)
(+)-Cedrol	<LOQ		0.001	(R)-(+)-Limonene	0.320	0.032	0.001	3-Carene	<LOQ		0.001
Alpha-Bisabolol	<LOQ		0.001	alpha-Cedrene	<LOQ		0.001	alpha-Humulene	<LOQ		0.001
alpha-Phellandrene	<LOQ		0.001	Alpha-Pinene	<LOQ		0.001	Alpha-Terpinene	<LOQ		0.001
Borneol	<LOQ		0.001	Beta-Myrcene	0.260	0.026	0.001	Beta-Pinene	<LOQ		0.001
Caryophyllene oxide	0.170	0.017	0.001	Camphene	<LOQ		0.001	Camphors	<LOQ		0.001
Gamma-Terpinene	<LOQ		0.001	cis-Nerolidol	<LOQ		0.001	Eucalyptol	<LOQ		0.001
Isoborneol	<LOQ		0.001	Fenchone	<LOQ		0.001	Fenchyl Alcohol	<LOQ		0.001
Nerol	<LOQ		0.001	Geraniol	<LOQ		0.001	Geranyl acetate	<LOQ		0.001
Sabinene	<LOQ		0.001	Guaiol	<LOQ		0.001	Hexahydrothymol	<LOQ		0.001
Terpinolene	<LOQ		0.001	Isopulegol	<LOQ		0.001	Linalool	<LOQ		0.001
trans-Nerolidol	<LOQ		0.001	Ocimene	<LOQ		0.001	Pulegone	<LOQ		0.001
				Sabinene Hydrate	<LOQ		0.001	Terpineol	<LOQ		0.001
				trans-beta-Ocimene	<LOQ		0.001	Trans-Caryophyllene	0.170	0.017	0.001
				Valencene	<LOQ		0.001				

(mg/g) = Milligram per Gram, , LOQ = Limit of Quantitation

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**Microbiology #5 (Petrifilm/Plating) (Passed) (Petrifilm)**

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	10.000	10

(cfu/g) = Colony Forming Unit per Gram, , LOQ = Limit of Quantitation

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# Certificate of Analysis

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BEYOND COMPLIANCE

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## 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	300	<LOQ	28.23	Abamectin A	300	<LOQ	30	Acephate	3000	<LOQ	30
Acequinocyl	2000	<LOQ	48	Acetamiprid	3000	<LOQ	30	Aldicarb	100	<LOQ	30
Azoxystrobin	3000	<LOQ	10	Bifenazate	3000	<LOQ	30	Bifenthrin	500	<LOQ	30
Carbaryl	500	<LOQ	10	Chlorfenapyr	100	<LOQ	48	Chlorpyrifos	100	<LOQ	30
Clofentezine	500	<LOQ	30	Coumaphos	100	<LOQ	30	Cyfluthrin	1000	<LOQ	30
Cypermethrin	1000	<LOQ	30	Daminozide	100	<LOQ	30	Diazinon	200	<LOQ	30
Dichlorvos	100	<LOQ	30	Dimethoate	100	<LOQ	30	Dimethomorph	3000	<LOQ	30
Ethoprophos	100	<LOQ	30	Etofenprox	100	<LOQ	30	Etoxazole	1500	<LOQ	30
Fenhexamid	3000	<LOQ	30	Fenoxycarb	100	<LOQ	30	Fenpyroximate	2000	<LOQ	30
Fipronil	100	<LOQ	30	Flonicamid	2000	<LOQ	30	Fludioxonil	3000	<LOQ	30
Hexythiazox	2000	<LOQ	30	Imazalil	100	<LOQ	30	Imidacloprid	3000	<LOQ	30
Kresoxim Methyl	1000	<LOQ	30	Malathion A	2000	<LOQ	30	Metalaxyl	3000	<LOQ	10
Methiocarb	100	<LOQ	30	Methomyl	100	<LOQ	30	Mevinphos	100	<LOQ	30
Myclobutanil	3000	<LOQ	30	Naled	500	<LOQ	30	Oxamyl	500	<LOQ	30
Paclobutrazol	100	<LOQ	30	Parathion-methyl	100	<LOQ	48	Pentachloronitrobenzene	200	<LOQ	30
Permethrin	1000	<LOQ	30	Phosmet	200	<LOQ	30	Piperonylbutoxide	3000	<LOQ	30
Prallethrin	400	<LOQ	30	Propiconazole	1000	<LOQ	30	Propoxur	100	<LOQ	30
Pyrethrins	1000	<LOQ	30	Pyridaben	3000	<LOQ	30	Spinetoram	3000	<LOQ	30
Spiromesifen	3000	<LOQ	30	Spirotetramat	3000	<LOQ	30	Spiroxamine	100	<LOQ	30
Tebuconazole	1000	<LOQ	30	Thiacloprid	100	<LOQ	30	Thiamethoxam	1000	<LOQ	30
Trifloxystrobin	3000	<LOQ	30								

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## Water Activity (Passed)

(AquaLab  
4TE)

Analyte	Action Level (aw)	Result (aw)
Water Activity	0.85	0.324

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