

# Certificate of Analysis

Order #: BAL200326-130075      Order Date: 2020-03-26      Collection Date: 2020-03-27      Report Date: 2020-04-15

Batch #: 4200751  
Sample #: AAAE382  
Specimen Type: CBD/HEMP Derivative Products (Ingestion)  
Extracted From: Industrial Hemp  
Description: 30 MG BSO Softgels

Initial Gross Weight: 42204 mg  
Net Weight: 500 mg  
Density: 0.94743 g/ml  
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> 7.4770%      35.4197mg	<b>THC Total</b> Not Detected	<b>CBG Total</b> Not Detected
<b>CBN Total</b> Not Detected	<b>Other Cannabinoids</b> 0.0765%      0.3624mg	<b>Total Cannabinoids</b> 7.5564%      35.7957mg

### Potency - 11 (Tested)

Potency - 11 (Tested)				(HPLC)							
Analyte	Result (mg/ml)	(%)	LOQ (%)	Analyte	Result (mg/ml)	(%)	LOQ (%)	Analyte	Result (mg/ml)	(%)	LOQ (%)
CBC	0.265	0.028	0.001	CBD	70.839	7.477	0.001	CBDA	<LOQ		0.001
CBDV	0.426	0.045	0.001	CBG	<LOQ	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	70.839	7.477	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 + 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  
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Principal Scientist

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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	<LOQ		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	<LOQ		0.001	Beta-Pinene	<LOQ		0.001
Caryophyllene oxide	0.200	0.020	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	<LOQ		0.001
				Valencene	<LOQ		0.001				

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

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**ACS**  
LABORATORY | CANNABIS & HEMP  
BEYOND COMPLIANCE

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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	10.000	10	E. Coli / Coliform	<10	10	Yeast/Mold	<10	10

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

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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	Abamectin B	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
Etoazole	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
Propiconazole	1000	<LOQ	30	Piperonylbutoxide	3000	<LOQ	30	Prallethrin	400	<LOQ	30
Pyridaben	3000	<LOQ	30	Propoxur	100	<LOQ	30	Pyrethrins	1000	<LOQ	30
Spirotetramat	3000	<LOQ	30	Spinetoram	3000	<LOQ	30	Spiromesifen	3000	<LOQ	30
Thiacloprid	100	<LOQ	30	Spiroxamine	100	<LOQ	30	Tebuconazole	1000	<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	0.369

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