

Certificate of Analysis

Order #: BAL200326-130075 Order Date: 2020-03-26 Collection Date: 2020-03-27 Report Date: 2020-04-02

Batch #: 4200752
Sample #: AAAE383
Specimen Type: CBD/HEMP Derivative Products (Ingestion)
Extracted From: Industrial Hemp
Description: 30MG BSO Softgels

Initial Gross Weight: 42396mg
Net Weight: 717
Method: SOP-3



Potency Tested	Residual Solvents Passed	Mycotoxins Passed
Heavy Metals Passed	Terpenes Tested	Microbiology Petrifilm Passed
Pesticides Passed	Water Activity Passed	



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

CBD Total 5.1700% 37.0689mg	THC Total Not Detected	CBG Total Not Detected
CBN Total Not Detected	Other Cannabinoids 0.0476% 0.3410mg	Total Cannabinoids 5.2221% 37.4425mg

Potency - 11 (Tested)

Potency - 11 (Tested)				(HPLC)							
Analyte	Result (mg/g)	(%)	LOQ (%)	Analyte	Result (mg/g)	(%)	LOQ (%)	Analyte	Result (mg/g)	(%)	LOQ (%)
CBC	0.169	0.017	0.001	CBD	51.700	5.170	0.001	CBDA	<LOQ		0.001
CBDV	0.264	0.026	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	51.700	5.170	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 + THCVA, *Total Detected Cannabinoids = CBD Total + CBG Total + CBN Total + THC Total + CBC + CBDV + THCV + THCV-A, *Total (mg) = Total (%) ÷ 100 * Net Weight(mg) (mg/g) = Milligram per Gram, LOQ = Limit of Quantitation

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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
								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-Farnesene		<LOQ	0.001
alpha-Humulene		<LOQ	0.001	alpha-Phellandrene		<LOQ	0.001	Alpha-Pinene		<LOQ	0.001
beta-Farnesene		<LOQ	0.001	Beta-Myrcene		<LOQ	0.001	Alpha-Terpinene		<LOQ	0.001
Borneol		<LOQ	0.001	Camphene		<LOQ	0.001	Beta-Pinene		<LOQ	0.001
Caryophyllene oxide	0.230	0.023	0.001	cis-Nerolidol		<LOQ	0.001	Camphors		<LOQ	0.001
Gamma-Terpinene		<LOQ	0.001	Fenchone		<LOQ	0.001	Eucalyptol		<LOQ	0.001
Isoborneol		<LOQ	0.001	Geraniol		<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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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	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	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
Fonicamid	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
Piperonylbutoxide	3000	<LOQ	30	Prallethrin	400	<LOQ	30	Phosmet	200	<LOQ	30
Propoxur	100	<LOQ	30	Pyrethrins	1000	<LOQ	30	Propiconazole	1000	<LOQ	30
Spinetoram	3000	<LOQ	30	Spinosyn A	3000	<LOQ	30	Pyridaben	3000	<LOQ	30
Spiromesifen	3000	<LOQ	30	Spirotetramat	3000	<LOQ	30	Spinosyn D	3000	<LOQ	30
Tebuconazole	1000	<LOQ	30	Thiacloprid	100	<LOQ	30	Spiroxamine	100	<LOQ	30
Trifloxystrobin	3000	<LOQ	30					Thiamethoxam	1000	<LOQ	30

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Water Activity (Passed)

(AquaLab
4TE)

Analyte	Action Level (aw)	Result (aw)
Water Activity	0.85	0.373

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