

Order #: BAL200805-050007 Order Date: 2020-08-05 Collection Date: 2020-08-06 Report Date: 2020-08-19

Batch #: 4201820
Sample #: AAAK828
Specimen Type: CBD/HEMP Derivative Products (Ingestion)
Extracted From: Industrial Hemp
Description: Softgels 30mg FSO

Initial Gross Weight: 42.143 g
Net Weight: 741.80 mg
Density: 0.9518 mg/ml
Method: SOP-3



Potency Tested	Heavy Metals Passed	Mycotoxins Passed
Pesticides Passed	Residual Solvents Passed	Residual Solvents Passed
Water Activity Tested	Pathogenic Microbiology Passed	Microbiology (qPCR) Tested



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

Total CBD 4.647% 32.812mg	Total THC 0.058% 0.412mg	Total CBG 0.020% 0.139mg
Total CBN 0.010% 0.068mg	Other Cannabinoids 0.079% 0.561mg	Total Cannabinoids 4.815% 33.993mg

Potency - 11 (Tested)

(HPLC/LCMS)

Analyte	Result (mg/ml)	(%)	LOQ (%)	Analyte	Result (mg/ml)	(%)	LOQ (%)	Analyte	Result (mg/ml)	(%)	LOQ (%)
CBC	0.756	0.079	0.001	CBD	43.887	4.611	0.001	CBDA	0.394	0.041	0.001
CBDV	<LOQ	0.001		CBG	0.188	0.020	0.001	CBGA	<LOQ	0.001	
CBN	0.092	0.010	0.001	Delta-8 THC	<LOQ	0.001		Delta-9 THC	0.555	0.058	0.001
THCA-A	<LOQ	0.001		THCV	<LOQ	0.001		Total CBD	44.233	4.647	0.001
Total THC	0.555	0.058	0.001								

*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, LOD = Limit of Detection

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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

Mycotoxins (Passed)

(LCMS/API/GCMS)

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

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Pesticides FL V4 (Non-Inhalable) (Passed)

(LCMS/API/GCMS)

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	Boscalid	3000	<LOQ	10
Captan	3000	<LOQ	30	Carbaryl	500	<LOQ	10	Carbaryl	500	<LOQ	10
Carbofuran	100	<LOQ	10	Chlorantraniliprole	3000	<LOQ	10	Chlordane	100	<LOQ	10
Chlorfenapyr	100	<LOQ	30	Chlormequat Chloride	3000	<LOQ	10	Chlorpyrifos	100	<LOQ	30
Coumaphos	100	<LOQ	48	Cyfluthrin	1000	<LOQ	30	Clofentezine	500	<LOQ	30
Daminozide	100	<LOQ	30	Diazinon	200	<LOQ	30	Cypermethrin	1000	<LOQ	30
Dimethoate	100	<LOQ	30	Dimethomorph	3000	<LOQ	48	Dichlorvos	100	<LOQ	30
Etofenprox	100	<LOQ	30	Etoazole	1500	<LOQ	30	Ethoprophos	100	<LOQ	30
Fenoxycarb	100	<LOQ	30	Fenpyroximate	2000	<LOQ	30	Fenhexamid	3000	<LOQ	10
Flonicamid	2000	<LOQ	30	Fludioxonil	3000	<LOQ	48	Fipronil	100	<LOQ	30
Imazalil	100	<LOQ	30	Imidacloprid	3000	<LOQ	30	Hexythiazox	2000	<LOQ	30
Malathion	2000	<LOQ	30	Metalaxyl	3000	<LOQ	10	Kresoxim Methyl	1000	<LOQ	30
Methomyl	100	<LOQ	30	methyl-Parathion	100	<LOQ	10	Methiocarb	100	<LOQ	30
Myclobutanil	3000	<LOQ	30	Naled	500	<LOQ	30	Mevinphos	100	<LOQ	10
Paclobutrazol	100	<LOQ	30	Pentachloronitrobenzene	200	<LOQ	10	Oxamyl	500	<LOQ	30
Piperonylbutoxide	3000	<LOQ	30	Prallethrin	400	<LOQ	30	Permethrin	1000	<LOQ	30
Propoxur	100	<LOQ	30	Pyrethrins	1000	<LOQ	30	Phosmet	200	<LOQ	30
Spinetoram	3000	<LOQ	10	Spinosad	3000	<LOQ	30	Propiconazole	1000	<LOQ	30
Spirotetramat	3000	<LOQ	30	Spiroxamine	100	<LOQ	30	Pyridaben	3000	<LOQ	30
Thiacloprid	100	<LOQ	30	Thiamethoxam	1000	<LOQ	30	Spiromesifen	3000	<LOQ	30
								Tebuconazole	1000	<LOQ	30
								Trifloxystrobin	3000	<LOQ	30

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Residual Solvents (CBD) (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
Chloroform	60	<LOQ	0.032	Ethanol	5000	238.745	16	Butanes	2000	<LOQ	13.32
Ethyl Ether	5000	<LOQ	8	Ethylene Oxide	5	<LOQ	0.32	Ethyl Acetate	5000	<LOQ	6.4
Heptane	5000	<LOQ	8	Hexane	290	<LOQ	0.8	Heptane	5000	<LOQ	8
Methanol	3000	<LOQ	4	Methylene chloride	600	<LOQ	2	Isopropyl alcohol	500	<LOQ	8
Toluene	890	<LOQ	2.4	Total Xylenes	2170	<LOQ	7.2	Pentane	5000	<LOQ	12
								Propane	2100	<LOQ	26.668
								Trichloroethylene	80	<LOQ	0.4

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Residual Solvents (For UT Clients ONLY) (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-Butanol	5000	<LOQ	6.4	1-Pentanol	5000	<LOQ	0.32	1-Propanol	5000	<LOQ	8
1,2-Dimethoxyethane	100	<LOQ	6.4	1,4-Dioxane	380	<LOQ	8	2-Butanol	5000	<LOQ	8
2-Methylpentane	290	<LOQ	6.4	2-Ethoxyethanol	160	<LOQ	4	2-methylbutane	5000	<LOQ	2
2,3-dimethylbutane	290	<LOQ	26.668	2-Propanol (IPA)	5000	<LOQ	6.4	2,2-dimethylbutane	290	<LOQ	12
Butane	5000	<LOQ	13.32	3-Methylpentane	290	<LOQ	2.4	Acetone	5000	<LOQ	12
Cyclohexane	3880	<LOQ	0.032	Acetonitrile	410	<LOQ	0.96	Benzene	2	<LOQ	0.016
Ethanol	5000	238.745	16	Butane	5000	<LOQ	13.32	Cumene	70	<LOQ	0.032
Ethylene glycol	620	<LOQ	6.4	Dichloromethane	600	<LOQ	0.8	Dimethyl sulfoxide	5000	<LOQ	6.4
Heptane	5000	<LOQ	8	Ethyl Acetate	5000	<LOQ	6.4	Ethyl Ether	5000	<LOQ	8
Methylpropane	5000	<LOQ	2	Ethylene Oxide	50	<LOQ	0.32	Heptane	5000	<LOQ	8
N,N-dimethylformamide	880	<LOQ	0.132	Isopropyl acetate	5000	<LOQ	8	Methanol	3000	<LOQ	4
Total Xylenes	1000	<LOQ	7.2	n-Hexane	290	<LOQ	0.8	N,N-dimethylacetamide	1090	<LOQ	6.4
				Pentane	5000	<LOQ	12	Propane	5000	<LOQ	26.668
				Pyridine	100	<LOQ	6.4	Sulfolane	160	<LOQ	6.4
				Tetrahydrofuran	720	<LOQ	6.4	Toluene	890	<LOQ	2.4

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

Water Activity (Tested)

(Water Activity Analyzer)

Analyte	Result (aw)
Water Activity	0.340

(aw) = aw

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Pathogenic Microbiology SAE (MicroArray) (Passed)

(Micro Array)

Analyte	Result (cfu/g)	Analyte	Result (cfu/g)	Analyte	Result (cfu/g)
Aspergillus flavus	Absence in 1g	Aspergillus fumigatus	Absence in 1g	Aspergillus niger	Absence in 1g
Aspergillus terreus	Absence in 1g	Salmonella	Absence in 1g	STEC E. Coli	Absence in 1g

(cfu/g) = Colony Forming Unit per Gram

Total Yeast and Mold (Tested)

(qPCR)

Analyte	Result (cfu/g)	Result
Total Yeast/Mold	<10	Passed

(cfu/g) = Colony Forming Unit per Gram

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