

Order #: BAL200720-040052 Order Date: 2020-07-20 Collection Date: 2020-07-22 Report Date: 2020-07-29

Batch #: 3201670
Sample #: AAAJ678
Specimen Type: CBD/HEMP Derivative Products (Ingestion)
Extracted From: Industrial Hemp
Description: CBD Oil 83mg/ml Isolate Tincture

Method: SOP-3



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



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

Total CBD 8.550%	Total THC Not Detected	Total CBG Not Detected
Total CBN Not Detected	Other Cannabinoids 0.042%	Total Cannabinoids 8.592%

Potency - 11 (Tested)

(HPLC/LCMS)

Analyte	Result (mg/g)	(%)	LOQ (%)	Analyte	Result (mg/g)	(%)	LOQ (%)	Analyte	Result (mg/g)	(%)	LOQ (%)
CBC	<LOQ		0.001	CBD	85.500	8.550	0.001	CBDA	<LOQ		0.001
CBDV	0.423	0.042	0.001	CBG	<LOQ		0.001	CBGA	<LOQ		0.001
CBN	<LOQ		0.001	Delta-8 THC	<LOQ		0.001	Delta-9 THC	<LOQ		0.001
THCA-A	<LOQ		0.001	THCV	<LOQ		0.001	Total CBD	85.500	8.550	0.001
Total THC	<LOQ		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 + THC + THCV + THCV-A, *Total Detected Cannabinoids = CBD Total + CBG Total + CBN Total + THC Total + CBC + CBDV + THCV + THCV-A (mg/g) = Milligram per Gram, , 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				

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

Pathogenic Microbiology 1 (MMTC Compliance Panel) (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

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Residual Solvents - FL (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	<LOQ	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 UT - BHB (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	<LOQ	16	Butane	5000	<LOQ	13.32	Cumene	70	<LOQ	0.032
Ethylbenzene	1000	<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
Methanol	3000	<LOQ	4	Ethylene glycol	620	<LOQ	6.4	Ethylene Oxide	50	<LOQ	0.32
N,N-dimethylacetamide	1090	<LOQ	6.4	Heptane	5000	<LOQ	8	Isopropyl acetate	5000	<LOQ	8
Sulfolane	160	<LOQ	6.4	Methylpropane	5000	<LOQ	2	n-Hexane	290	<LOQ	0.8
Total Xylenes	1000	<LOQ	7.2	N,N-dimethylformamide	880	<LOQ	0.132	Pentane	5000	<LOQ	12
				Tetrahydrofuran	720	<LOQ	6.4	Propane	5000	<LOQ	26.668
								Pyridine	100	<LOQ	6.4
								Toluene	890	<LOQ	2.4

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Water Activity (Tested)

(Water Activity Analyzer)

Analyte	Result (aw)
Water Activity	0.342

(aw) = aw

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

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