

Certificate of Analysis

Order #: SIM191211-090017 Order Date: 2019-12-11 Collection Date: 2019-12-13 Report Date: 2019-12-23

Batch #: 197363
Sample #: AAAA388
Specimen Type: CBD/HEMP Derivative Products
Extracted From: Hemp
Description: Vanilla Tincture 1500mg

Initial Gross Weight: 12826.000mg
Method: SOP-3



Potency Tested	Residual Solvents Passed	Heavy Metals Passed
Mycotoxins Passed	Pathogenic Passed	Terpenes Tested
Pesticides Passed		

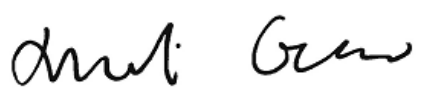



The photos on this report are of a sample collected by the lab and may vary from the final packaging.

CBD Total 5.612%	THC Total Not Detected	CBG Total Not Detected
CBN Total Not Detected	Other Cannabinoids Total 0.019%	Total Detected Cannabinoids 5.631%

Potency - 11 (Tested)				(HPLC)			
Analyte	Result (mg/g)	(%)	LOQ (%)	Analyte	Result (mg/g)	(%)	LOQ (%)
CBC		<LOQ	0.001	CBD	56.120	5.612	0.001
CBDV	0.191	0.019	0.001	CBG		<LOQ	0.001
CBN		<LOQ	0.001	Delta-8-THC		<LOQ	0.001
THCA-A		<LOQ	0.001	THCV		<LOQ	0.001
Total THC		<LOQ	0.001	Total CBD	56.120	5.612	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 + THCA-A, *Total Detected Cannabinoids = CBD Total + CBG Total + CBN Total + THC Total + CBC + CBDV + THC + THCV + THCA-A (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-Dichloroethen-e	8	<LOQ	0.132	1,2-dichloroethan-e	2	<LOQ	0.032	Acetone	750	<LOQ	12
Benzene	1	<LOQ	0.016	Butanes	2000	<LOQ	13.32	Acetonitrile	60	<LOQ	0.96
Ethanol	5000	<LOQ	16	Ethyl Acetate	400	<LOQ	6.4	Chloroform	2	<LOQ	0.032
Ethylene Oxide	5	<LOQ	0.32	Heptane	500	<LOQ	8	Ethyl Ether	500	<LOQ	8
Isopropyl alcohol	500	<LOQ	8	Methanol	250	<LOQ	4	Hexane	250	<LOQ	0.8
Pentane	750	<LOQ	12	Propane	2100	<LOQ	26.668	Methylene chloride	125	<LOQ	2
Total Xylenes	150	<LOQ	7.2	Trichloroethene	25	<LOQ	0.4	Toluene	150	<LOQ	2.4

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

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)	200	<LOQ	100	Cadmium (Cd)	200	<LOQ	100	Lead (Pb)	500	<LOQ	100
Mercury (Hg)	100	<LOQ	100								

(ppb) = Parts per Billion, (ppb) = (µg/kg), , 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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Pathogenic Microbiology #3 (HEMP Compliance Panel) (Passed) (qPCR)

Analyte	Result	Analyte	Result	Analyte	Result
E.Coli	Absence	Listeria	Absence	Salmonella	Absence

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-Phellandren-e	<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	<LOQ		0.001	Camphene	<LOQ		0.001	Camphors	<LOQ		0.001
Fenchyl Alcohol	<LOQ		0.001	cis-Nerolidol	<LOQ		0.001	Eucalyptol	<LOQ		0.001
Guaiol	<LOQ		0.001	Farnesene	<LOQ		0.001	Fenchone	<LOQ		0.001
Isopulegol	<LOQ		0.001	gamma-Terpinene	<LOQ		0.001	Geraniol	<LOQ		0.001
Ocimene	<LOQ		0.001	Hexahydrothymol	<LOQ		0.001	Geranyl acetate	<LOQ		0.001
Sabinene Hydrate	<LOQ		0.001	Linalool	<LOQ		0.001	Isoborneol	<LOQ		0.001
trans-Caryophyllene	<LOQ		0.001	Pulegone	<LOQ		0.001	Nerol	<LOQ		0.001
				Terpineol	<LOQ		0.001	Sabinene	<LOQ		0.001
				trans-Nerolidol	<LOQ		0.001	Terpinolene	<LOQ		0.001
								Valencene	<LOQ		0.001

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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	100	<LOQ	28.23	Acephate	100	<LOQ	30	Acequinocyl	100	<LOQ	48
Acetamiprid	100	<LOQ	30	Aldicarb	100	<LOQ	30	Azoxystrobin	10	<LOQ	10
Bifenazate	100	<LOQ	30	Bifenthrin	100	<LOQ	30	Chlorfenapyr	100	<LOQ	48
Chlorpyrifos	100	<LOQ	30	Clofentezine	200	<LOQ	30	Coumaphos	100	<LOQ	30
Cyfluthrin	100	<LOQ	30	Cypermethrin	500	<LOQ	30	Daminozide	100	<LOQ	30
DDVP(Dichlorvos)	100	<LOQ	30	Diazinon	100	<LOQ	30	Dimethoate	100	<LOQ	30
Dimethomorph	200	<LOQ	30	Ethoprop(hos)	100	<LOQ	30	Etofenprox	100	<LOQ	30
Etoxazole	100	<LOQ	30	Fenhexamid	100	<LOQ	30	Fenoxycarb	100	<LOQ	30
Fipronil	100	<LOQ	30	Fonicamid	100	<LOQ	30	Fludioxonil	100	<LOQ	30
Hexythiazox	100	<LOQ	30	Imazalil	100	<LOQ	30	Imidacloprid	400	<LOQ	30
Kresoxim Methyl	100	<LOQ	30	Malathion A	200	<LOQ	30	Metalaxyl	20	<LOQ	10
Methiocarb	50	<LOQ	30	Methomyl	100	<LOQ	30	Mevinphos	100	<LOQ	30
Myclobutanil	100	<LOQ	30	Naled	250	<LOQ	30	Oxamyl	500	<LOQ	30
Paclobutrazol	100	<LOQ	30	Parathion-methyl	100	<LOQ	48	Pentachloronitrobenzene	150	<LOQ	30
Permethrin	100	<LOQ	30	Phosmet	100	<LOQ	30	Piperonylbutoxide	3000	<LOQ	30
Prallethrin	100	<LOQ	30	Propiconazole	100	<LOQ	30	Propoxur	100	<LOQ	30
Pyrethrins	500	<LOQ	30	Pyridaben	200	<LOQ	30	Spinetoram	200	<LOQ	30
Spinosyn A	100	<LOQ	30	Spinosyn D	100	<LOQ	30	Spiromesifen	100	<LOQ	30
Spirotetramat	100	<LOQ	30	Spiroxamine	100	<LOQ	30	Tebuconazole	100	<LOQ	30
Thiacloprid	100	<LOQ	30	Thiamethoxam	500	<LOQ	30	Trifloxystrobin	100	<LOQ	30

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