

Certificate of Analysis

Order #: SIM191211-200016 Order Date: 2019-12-11 Collection Date: 2019-12-13 Report Date: 2019-12-23

Batch #: 381756
Sample #: AAAA364
Specimen Type: CBD/HEMP Derivative Products (Ingestion)
Extracted From: Hemp
Description: Lemon Twist 750mg Vape

Initial Gross Weight: 13806.000mg
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 70.140%	THC Total 0.169%	CBG Total 0.048%
CBN Total 0.019%	Other Cannabinoids Total 0.205%	Total Detected Cannabinoids 70.580%

Potency - 11 (Tested)

(HPLC)

Analyte	Result (mg/g)	(%)	LOQ (%)	Analyte	Result (mg/g)	(%)	LOQ (%)	Analyte	Result (mg/g)	(%)	LOQ (%)
CBC		<LOQ	0.001	CBD	701.400	70.140	0.001	CBDA		<LOQ	0.001
CBDV	2.045	0.205	0.001	CBG	0.485	0.048	0.001	CBGA		<LOQ	0.001
CBN	0.188	0.019	0.001	Delta-8-THC		<LOQ	0.001	Delta-9-THC	1.687	0.169	0.001
THCA-A		<LOQ	0.001	THCV		<LOQ	0.001	Total CBD	701.400	70.140	0.001
Total THC	1.687	0.169	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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Lab Toxicologist

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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	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	Propane	2100	<LOQ	26.668	Methylene chloride	600	<LOQ	2
Total Xylenes	2170	<LOQ	7.2	Trichloroethene	80	<LOQ	0.4	Toluene	890	<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)	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/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	0.001	(R)-(+)-Limonene	34.790	3.479	0.001	3-Carene	<LOQ	0.001	0.001
Alpha-Bisabolol	1.370	0.137	0.001	alpha-Cedrene	<LOQ	0.001	0.001	alpha-Humulene	5.110	0.511	0.001
alpha-Phellandren-e	1.170	0.117	0.001	alpha-Pinene	8.700	0.870	0.001	alpha-Terpinene	<LOQ	0.001	0.001
Borneol	<LOQ	0.001	0.001	beta-Myrcene	29.170	2.917	0.001	beta-Pinene	3.920	0.392	0.001
Caryophyllene oxide	<LOQ	0.001	0.001	Camphene	<LOQ	0.001	0.001	Camphors	<LOQ	0.001	0.001
Fenchyl Alcohol	<LOQ	0.001	0.001	cis-Nerolidol	<LOQ	0.001	0.001	Eucalyptol	<LOQ	0.001	0.001
				Farnesene	<LOQ	0.001	0.001	Fenchone	<LOQ	0.001	0.001
				gamma-Terpinene	1.390	0.139	0.001	Geraniol	<LOQ	0.001	0.001
				Hexahydrothymol	<LOQ	0.001	0.001	Geranyl acetate	<LOQ	0.001	0.001
Guaiol	<LOQ	0.001	0.001	Linalool	4.450	0.445	0.001	Isoborneol	<LOQ	0.001	0.001
Isopulegol	<LOQ	0.001	0.001	Pulegone	<LOQ	0.001	0.001	Nerol	<LOQ	0.001	0.001
Ocimene	<LOQ	0.001	0.001	Terpineol	1.150	0.115	0.001	Sabinene	<LOQ	0.001	0.001
Sabinene Hydrate	<LOQ	0.001	0.001	trans-Caryophyllene	21.200	2.120	0.001	Terpinolene	3.860	0.386	0.001
trans-beta-Ocimen-e	<LOQ	0.001	0.001					trans-Nerolidol	<LOQ	0.001	0.001
								Valencene	<LOQ	0.001	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	300	<LOQ	28.23	Acephate	3000	<LOQ	30	Acequinocyl	2000	<LOQ	48
Acetamiprid	3000	<LOQ	30	Aldicarb	100	<LOQ	30	Azoxystrobin	3000	<LOQ	10
Bifentazate	3000	<LOQ	30	Bifenthrin	500	<LOQ	30	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
DDVP(Dichlorvos)	100	<LOQ	30	Diazinon	200	<LOQ	30	Dimethoate	100	<LOQ	30
Dimethomorph	3000	<LOQ	30	Ethoprop(hos)	100	<LOQ	30	Etofenprox	100	<LOQ	30
Etoxazole	1500	<LOQ	30	Fenhexamid	3000	<LOQ	30	Fenoxycarb	100	<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	Phosmet	200	<LOQ	30	Piperonylbutoxide	3000	<LOQ	30
Prallethrin	400	<LOQ	30	Propiconazole	1000	<LOQ	30	Propoxur	100	<LOQ	30
Pyrethrins	1000	<LOQ	30	Pyridaben	3000	<LOQ	30	Spinetoram	3000	<LOQ	30
Spinosyn A	3000	<LOQ	30	Spinosyn D	3000	<LOQ	30	Spiromesifen	3000	<LOQ	30
Spirotetramat	3000	<LOQ	30	Spiroxamine	100	<LOQ	30	Tebuconazole	1000	<LOQ	30
Thiacloprid	100	<LOQ	30	Thiamethoxam	1000	<LOQ	30	Trifloxystrobin	3000	<LOQ	30

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