



Happy Delta-8 Vape Cart Blueberry 500 mg

Sample Matrix:
CBD/HEMP
Derivative Products
(Inhalation - Heated)



License No. 800025015
FL License # CMTL-0003
CLIA No. 10D1094068

Certificate of Analysis

Compliance Test

Happy Delta
8350 Arrowridge Blvd
Charlotte, North Carolina 28273

Batch # VD8B01
Batch Date: 2021-08-03
Extracted From: Hemp

Sampling Method: MSP 7.3.1
Test Reg State: Florida

Order # GLO210803-100005
Order Date: 2021-08-03
Sample # AABS458

Sampling Date: 2021-08-05
Lab Batch Date: 2021-08-05
Completion Date: 2021-08-17

Initial Gross Weight: 65.274 g
Net Weight: 1100.000 mg

Number of Units: 2
Net Weight per Unit: 1100.000 mg



Product Image

Potency
Tested
 Residual
Solvents
Passed

Terpenes
Tested
 Pathogenic
Microbiology
Passed

Heavy Metals
Passed
 Listeria
Monocytogenes
Passed

Mycotoxins
Passed
 Filth and Foreign
Passed

Pesticides
Passed

Delta 8/Delta 10 Potency

Specimen Weight: 50.500 mg

Analyte	Dilution (1:n)	LOD (%)	LOQ (%)	Result (mg/g)	(%)
Delta-8 THC	100.000	0.000026	0.001	53.370	53.370
CBD	100.000	0.000054	0.001	145.900	14.590
CBC	100.000	0.000018	0.001	39.360	3.936
CBN	100.000	0.000014	0.001	13.060	1.306
CBG	100.000	0.000248	0.001	9.476	0.948
CBDV	100.000	0.000065	0.001	7.785	0.779
THCV	100.000	0.000007	0.001	<LOQ	<LOQ
THCA-A	100.000	0.000032	0.001	<LOQ	<LOQ
Delta-10 THC	1000.000	0.000003	0.001	<LOQ	<LOQ
CBGA	100.000	0.000008	0.001	<LOQ	<LOQ
Delta-9 THC	100.000	0.000013	0.001	<LOQ	<LOQ
CBDA	100.000	0.000001	0.001	<LOQ	<LOQ

Tested (LCUV)

Potency Summary

Total Delta 8 53.370% 587.070mg	Total Delta 10 None Detected
Total THC None Detected	Total CBD 14.590% 160.490mg
Total CBG 0.948% 10.428mg	Total CBN 1.306% 14.366mg
Other Cannabinoids 4.715% 51.865mg	Total Cannabinoids 74.928% 824.208mg

Terpenes Summary

Analyte	Result (mg/g)	(%)
(R)-(+)-Limonene	62.245	6.225%
alpha-Bisabolol	4.669	0.467%
trans-Caryophyllene	2.746	0.275%
Linalool	1.027	0.103%
Total Terpeneol	0.997	0.1%
Guaiol	0.945	0.095%
Caryophyllene oxide	0.754	0.075%
alpha-Humulene	0.672	0.067%
trans-Nerolidol	0.494	0.049%
(+)-Cedrol	0.447	0.045%

Total Terpenes: 7.501%

Detailed Terpenes Analysis is on the following page

Xueli Gao
Ph.D., DABT
Lab Toxicologist

Aixia Sun
D.H.Sc., M.Sc., B.Sc., MT (AAB)
Lab Director/Principal Scientist



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Terpenes - FL

Specimen Weight: 49.070 mg
Dilution Factor: 20.000

Tested
(GC/GCMS)

Analyte	LOQ (%)	Result (mg/g)	(%)	Analyte	LOQ (%)	Result (mg/g)	(%)
(R)-(+)-Limonene	0.02	62.245	6.225	alpha-Bisabolol	0.02	4.669	0.467
trans-Caryophyllene	0.02	2.746	0.275	Linalool	0.02	1.027	0.103
Total Terpeneol	0.02	0.997	0.100	Guaiol	0.02	0.945	0.095
Caryophyllene oxide	0.02	0.754	0.075	alpha-Humulene	0.02	0.672	0.067
trans-Nerolidol	0.02	0.494	0.049	(+)-Cedrol	0.02	0.447	0.045
Geranyl acetate	0.02	<LOQ		Hexahydrothymol	0.02	<LOQ	
Isoborneol	0.02	<LOQ		Isopulegol	0.02	<LOQ	
Pulegone	0.02	<LOQ		Nerol	0.02	<LOQ	
Ocimene	0.014	<LOQ		Sabinene	0.02	<LOQ	
Sabinene Hydrate	0.02	<LOQ		Terpinolene	0.02	<LOQ	
Geraniol	0.02	<LOQ		Fenchone	0.02	<LOQ	
Gamma-Terpinene	0.02	<LOQ		3-Carene	0.02	<LOQ	
alpha-Cedrene	0.02	<LOQ		alpha-Phellandrene	0.02	<LOQ	
alpha-Pinene	0.02	<LOQ		alpha-Terpinene	0.02	<LOQ	
beta-Myrcene	0.02	<LOQ		Fenchyl Alcohol	0.02	<LOQ	
beta-Pinene	0.02	<LOQ		Borneol	0.04	<LOQ	
Camphene	0.02	<LOQ		Camphors	0.04	<LOQ	
cis-Nerolidol	0.02	<LOQ		Eucalyptol	0.02	<LOQ	
Farnesene	0.02	<LOQ		Valencene	0.02	<LOQ	

Total Terpenes: 7.501%

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Heavy Metals

Specimen Weight: 250.200 mg
Dilution Factor: 2.000

Passed
(ICP-MS)

Analyte	LOQ (ppb)	Action Level (ppb)	Result (ppb)	Analyte	LOQ (ppb)	Action Level (ppb)	Result (ppb)
Arsenic (As)	100	1500	<LOQ	Cadmium (Cd)	100	500	<LOQ
Lead (Pb)	100	500	<LOQ	Mercury (Hg)	100	3000	<LOQ

Mycotoxins

Specimen Weight: 165.100 mg
Dilution Factor: 9.085

Passed
(LCMS)

Analyte	LOQ (ppb)	Action Level (ppb)	Result (ppb)	Analyte	LOQ (ppb)	Action Level (ppb)	Result (ppb)
Aflatoxin B1	6	20	<LOQ	Aflatoxin B2	6	20	<LOQ
Aflatoxin G1	6	20	<LOQ	Aflatoxin G2	6	20	<LOQ
Ochratoxin A	12	20	<LOQ				

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Pesticides
Specimen Weight: 165.100 mg
Dilution Factor: 9.085
Passed
(LCMS/GCMS)

Analyte	LOQ (ppb)	Action Level (ppb)	Result (ppb)	Analyte	LOQ (ppb)	Action Level (ppb)	Result (ppb)
Abamectin	28.23	300	<LOQ	Acephate	30	3000	<LOQ
Acequinocyl	48	2000	<LOQ	Acetamiprid	30	3000	<LOQ
Aldicarb	30	100	<LOQ	Azoxystrobin	10	3000	<LOQ
Bifenazate	30	3000	<LOQ	Bifenthrin	30	500	<LOQ
Carbaryl	10	500	<LOQ	Chlorfenapyr	48	100	<LOQ
Chlorpyrifos	30	100	<LOQ	Clofentezine	30	500	<LOQ
Coumaphos	30	100	<LOQ	Cyfluthrin	30	1000	<LOQ
Cypermethrin	30	1000	<LOQ	Daminozide	30	100	<LOQ
Diazinon	30	200	<LOQ	Dichlorvos	30	100	<LOQ
Dimethoate	30	100	<LOQ	Dimethomorph	30	3000	<LOQ
Ethoprophos	30	100	<LOQ	Etofenprox	30	100	<LOQ
Etiozazole	30	1500	<LOQ	Fenhexamid	30	3000	<LOQ
Fenoxycarb	30	100	<LOQ	Fenpyroximate	30	2000	<LOQ
Fipronil	30	100	<LOQ	Flonicamid	30	2000	<LOQ
Fludioxonil	30	3000	<LOQ	Hexythiazox	30	2000	<LOQ
Imazalil	30	100	<LOQ	Imidacloprid	30	3000	<LOQ
Kresoxim Methyl	30	1000	<LOQ	Malathion	30	2000	<LOQ
Metalaxyl	10	3000	<LOQ	Methiocarb	30	100	<LOQ
Methomyl	30	100	<LOQ	Mevinphos	30	100	<LOQ
Myclobutanil	30	3000	<LOQ	Naled	30	500	<LOQ
Oxamyl	30	500	<LOQ	Paclobutrazol	30	100	<LOQ
Parathion-methyl	48	100	<LOQ	Pentachloronitrobenzene	30	200	<LOQ
Permethrin	30	1000	<LOQ	Phosmet	30	200	<LOQ
Piperonylbutoxide	30	3000	<LOQ	Prallethrin	30	400	<LOQ
Propiconazole	30	1000	<LOQ	Propoxur	30	100	<LOQ
Pyrethrins	30	1000	<LOQ	Pyridaben	30	3000	<LOQ
Spinetoram	30	3000	<LOQ	Spiromesifen	30	3000	<LOQ
Spirotetramat	30	3000	<LOQ	Spiroxamine	30	100	<LOQ
Tebuconazole	30	1000	<LOQ	Thiafloxiprid	30	100	<LOQ
Thiamethoxam	30	1000	<LOQ	Trifloxystrobin	30	3000	<LOQ

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Residual Solvents - FL (CBD)

Specimen Weight: 13.100 mg

Dilution Factor: 1.000

Passed
(GCMS)

Analyte	LOQ (ppm)	Action Level (ppm)	Result (ppm)	Analyte	LOQ (ppm)	Action Level (ppm)	Result (ppm)
Acetone	2.08	5000	<LOQ	Benzene	0.02	2	<LOQ
Butanes	2.5	2000	<LOQ	Ethanol	2.78	5000	<LOQ
Ethyl Acetate	1.11	5000	<LOQ	Heptane	1.39	5000	<LOQ
Hexane	1.17	290	<LOQ	Isopropyl alcohol	1.39	500	<LOQ
Methanol	0.69	3000	<LOQ	Pentane	2.08	5000	<LOQ
Propane	5.83	2100	<LOQ	Toluene	2.92	890	<LOQ
Total Xylenes	2.92	2170	<LOQ				



Pathogenic Microbiology SAE (MicroArray)

Specimen Weight: 1000.500 mg

Dilution Factor: 1.000

Passed
(Micro Array)

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

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Listeria Monocytogenes

Specimen Weight: 992.200 mg

Dilution Factor: 1.000

Passed
(qPCR)

Analyte	Action Level (cfu/g)	Result
Listeria Monocytogenes	1	Absence in 1 g



Filtration and Foreign Material

Net Weight: 1100.000 mg

Dilution Factor: 1.000

Passed
(Visual/Microscope)

Analyte	Action Level (%)	Result (%)	Analyte	Action Level (mg/Kg)	Result (mg/Kg)
Covered Area	10	0.000	Feces	0.5	0.000
Weight %	1	0.000			

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