



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 # VD8G13
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 # AABS454

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

Initial Gross Weight: 66.304 g
Net Weight: 1100.000 mg

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



Product Image

Potency
Tested

Terpenes
Tested

Heavy Metals
Passed

Mycotoxins
Passed

Pesticides
Passed

Residual
Solvents
Passed

Pathogenic
Microbiology
Passed

Listeria
Monocytogenes
Passed

Filth and Foreign
Passed

Delta 8/Delta 10 Potency

12

Specimen Weight: 58.700 mg

Analyte	Dilution (1:n)	LOD (%)	LOQ (%)	Result (mg/g)	(%)
Delta-8 THC	100.000	0.000026	0.001	530.200	53.020
CBD	100.000	0.000054	0.001	147.600	14.760
CBC	100.000	0.000018	0.001	39.940	3.994
CBN	100.000	0.000014	0.001	13.160	1.316
CBG	100.000	0.000248	0.001	9.590	0.959
CBDV	100.000	0.000065	0.001	7.643	0.764
THCV	100.000	0.000007	0.001	<LOQ	
THCA-A	100.000	0.000032	0.001	<LOQ	
Delta-10 THC	1000.000	0.000003	0.001	<LOQ	
CBGA	100.000	0.000008	0.001	<LOQ	
Delta-9 THC	100.000	0.000013	0.001	<LOQ	
CBDA	100.000	0.000001	0.001	<LOQ	

Tested (LCUV)

Potency Summary

Total Delta 8 53.020% 583.220mg	Total Delta 10 None Detected
Total THC None Detected	Total CBD 14.760% 162.360mg
Total CBG 0.959% 10.549mg	Total CBN 1.316% 14.476mg
Other Cannabinoids 4.758% 52.338mg	Total Cannabinoids 74.813% 822.943mg

Terpenes Summary

Analyte	Result (mg/g)	(%)
(R)-(+)-Limonene	29.238	2.924%
beta-Myrcene	16.721	1.672%
alpha-Bisabolol	4.172	0.417%
trans-Caryophyllene	2.623	0.262%
alpha-Phellandrene	0.915	0.091%
Linalool	0.833	0.083%
Guaiol	0.774	0.077%
Caryophyllene oxide	0.555	0.055%
alpha-Humulene	0.539	0.054%
trans-Nerolidol	0.426	0.043%
(+)-Cedrol	0.377	0.038%
Total Terpineol	0.356	0.036%

Total Terpenes: 5.752%

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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Net Weight per Unit: 1100.000 mg



Terpenes - FL

Specimen Weight: 59.800 mg
Dilution Factor: 20.000

Tested
(GC/GCMS)

Analyte	LOQ (%)	Result (mg/g)	(%)	Analyte	LOQ (%)	Result (mg/g)	(%)
(R)-(+)-Limonene	0.02	29.238	2.924	beta-Myrcene	0.02	16.721	1.672
alpha-Bisabolol	0.02	4.172	0.417	trans-Caryophyllene	0.02	2.623	0.262
alpha-Phellandrene	0.02	0.915	0.091	Linalool	0.02	0.833	0.083
Guaiol	0.02	0.774	0.077	Caryophyllene oxide	0.02	0.555	0.055
alpha-Humulene	0.02	0.539	0.054	trans-Nerolidol	0.02	0.426	0.043
(+)-Cedrol	0.02	0.377	0.038	Total Terpeneol	0.02	0.356	0.036
Sabinene Hydrate	0.02	<LOQ		Geraniol	0.02	<LOQ	
Sabinene	0.02	<LOQ		Pulegone	0.02	<LOQ	
Ocimene	0.014	<LOQ		Nerol	0.02	<LOQ	
Terpinolene	0.02	<LOQ		Isopulegol	0.02	<LOQ	
Isoborneol	0.02	<LOQ		Hexahydrothymol	0.02	<LOQ	
Geranyl acetate	0.02	<LOQ		Fenchone	0.02	<LOQ	
beta-Pinene	0.02	<LOQ		3-Carene	0.02	<LOQ	
alpha-Cedrene	0.02	<LOQ		alpha-Pinene	0.02	<LOQ	
alpha-Terpinene	0.02	<LOQ		Gamma-Terpinene	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	
Fenchyl Alcohol	0.02	<LOQ		Valencene	0.02	<LOQ	

Total Terpenes: 5.752%

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Net Weight: 1100.000 mg

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

Heavy Metals

Specimen Weight: 249.900 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: 171.900 mg
Dilution Factor: 8.726

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

Pesticides
Specimen Weight: 171.900 mg
Dilution Factor: 8.726
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	Thiaclorid	30	100	<LOQ
Thiamethoxam	30	1000	<LOQ	Trifloxystrobin	30	3000	<LOQ

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Net Weight: 1100.000 mg

Number of Units: 2
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Residual Solvents - FL (CBD) Passed (GCMS)

Specimen Weight: 9.300 mg
Dilution Factor: 1.000

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) Passed (Micro Array)

Specimen Weight: 1013.100 mg
Dilution Factor: 1.000

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 **Passed**
(qPCR)
Specimen Weight: 1005.500 mg
Dilution Factor: 1.000

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

Filth and Foreign Material **Passed**
(Visual/Microscope)
Net Weight: 1100.000 mg
Dilution Factor: 1.000

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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