



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

Certificate of Analysis

Compliance Test

HARBOR CITY HEMP, LLC
3280 Suntree Blvd
MELBOURNE, FL 32940

Batch # D8LO-0122
Batch Date: 2022-01-01

Sampling Method: MSP 7.3.1
Test Reg State: Florida

Production Facility: Harbor City Hemp

Order # HAR220113-010001
Order Date: 2022-01-13
Sample # AACJ154

Sampling Date: 2022-01-18
Lab Batch Date: 2022-01-18
Completion Date: 2022-01-23

Initial Gross Weight: 75.174 g



Product Image

Potency Tested	Terpenes Tested	Heavy Metals Passed	2,3-Butanedione Passed	Mycotoxins Passed
Pesticides Passed	Residual Solvents Passed	Pathogenic Microbiology Passed	Listeria Monocytogenes Passed	Vitamin E Passed
Flavonoids Tested				

Potency 22 (LCUV)

Specimen Weight: 164.900 mg

Tested (LCUV)

Analyte	Dilution (1:n)	LOD (%)	LOQ (%)	Result (mg/g)	(%)
Delta-8 THC	1000.000	0.000026	0.0015	920.8000	92.0800
CBDA	10.000	0.00001	0.0015	7.4460	0.7446
Delta-8 THCV	10.000	0.00004	0.0015	6.4300	0.6430
CBNA	10.000	0.000095	0.0015	2.4300	0.2430
CBD	10.000	0.000054	0.0015	2.3210	0.2321
CBT	10.000	0.0002	0.0015	1.3960	0.1396
CBCA	10.000	0.000107	0.0015	0.3572	0.0357
CBGA	10.000	0.00008	0.0015	<LOQ	<LOQ
THCVA	10.000	0.000047	0.0015	<LOQ	<LOQ
CBDV	10.000	0.000065	0.0015	<LOQ	<LOQ
CBDVA	10.000	0.000014	0.0015	<LOQ	<LOQ
THCA-A	10.000	0.000032	0.0015	<LOQ	<LOQ
THCV	10.000	0.000007	0.0015	<LOQ	<LOQ
CBL	10.000	0.000035	0.0015	<LOQ	<LOQ
Exo-THC	10.000	0.00023	0.0015	<LOQ	<LOQ
Delta-9 THCO-Acetate	10.000	0.000077	0.0003	<LOQ	<LOQ
Delta-9 THC	10.000	0.000013	0.0015	<LOQ	<LOQ
Delta-8 THC-O-Acetate	10.000	0.000027	0.0003	<LOQ	<LOQ
CBG	10.000	0.000248	0.0015	<LOQ	<LOQ
Delta-10 THC	10.000	0.000003	0.0015	<LOQ	<LOQ
CBN	10.000	0.000014	0.0015	<LOQ	<LOQ
CBC	10.000	0.000018	0.0015	<LOQ	<LOQ

Potency Summary

Total THC None Detected	Total CBD 0.885%
Total CBG None Detected	Total CBN 0.213%
Other Cannabinoids 92.894%	Total Cannabinoids 93.992%

Terpenes Summary

Analyte	Result (mg/g)	(%)
beta-Myrcene	1.093	0.109%
trans-Caryophyllene	0.664	0.066%
Farnesene	0.591	0.059%
alpha-Bisabolol	0.31	0.031%
(R)-(+)-Limonene	0.236	0.024%
alpha-Humulene	0.177	0.018%
Guaial	0.14	0.014%

Total Terpenes: 0.321%

Detailed Terpenes Analysis is on the following page

Flavonoids Summary

Analyte	Result (ppm)
beta sitosterol	27.86
Cannflavin A	15.1
Cannflavin B	12.67

Total Flavonoids: 55.630ppm

Detailed Flavonoids Analysis is on one of the following pages

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Xueli Gao
Ph.D., DABT
Lab Toxicologist

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



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Terpenes

Specimen Weight: 55.310 mg

Tested
(GC/GCMS)

Dilution Factor: 20.000

Analyte	LOQ (%)	Result (mg/g)	(%)	Analyte	LOQ (%)	Result (mg/g)	(%)
beta-Myrcene	0.002	1.093	0.109	trans-Nerolidol	0.002	<LOQ	<LOQ
trans-Caryophyllene	0.002	0.664	0.066	Sabinene	0.002	<LOQ	<LOQ
Farnesene	0.002	0.591	0.059	Fenchyl Alcohol	0.002	<LOQ	<LOQ
alpha-Bisabolol	0.002	0.310	0.031	Geraniol	0.002	<LOQ	<LOQ
(R)-(+)-Limonene	0.002	0.236	0.024	Gamma-Terpinene	0.002	<LOQ	<LOQ
alpha-Humulene	0.002	0.177	0.018	Fenchone	0.002	<LOQ	<LOQ
Guaiol	0.002	0.140	0.014	Eucalyptol	0.002	<LOQ	<LOQ
Nerol	0.002	<LOQ	<LOQ	cis-Nerolidol	0.002	<LOQ	<LOQ
Hexahydrothymol	0.002	<LOQ	<LOQ	Caryophyllene oxide	0.002	<LOQ	<LOQ
Isoborneol	0.002	<LOQ	<LOQ	Camphors	0.006	<LOQ	<LOQ
Isopulegol	0.002	<LOQ	<LOQ	Camphene	0.002	<LOQ	<LOQ
Linalool	0.002	<LOQ	<LOQ	Borneol	0.004	<LOQ	<LOQ
(+)-Cedrol	0.002	<LOQ	<LOQ	beta-Pinene	0.002	<LOQ	<LOQ
Ocimene	0.000	<LOQ	<LOQ	alpha-Terpinene	0.002	<LOQ	<LOQ
Pulegone	0.002	<LOQ	<LOQ	alpha-Pinene	0.002	<LOQ	<LOQ
Geranyl acetate	0.002	<LOQ	<LOQ	alpha-Phellandrene	0.002	<LOQ	<LOQ
Sabinene Hydrate	0.002	<LOQ	<LOQ	alpha-Cedrene	0.002	<LOQ	<LOQ
Terpinolene	0.002	<LOQ	<LOQ	3-Carene	0.002	<LOQ	<LOQ
Total Terpeneol	0.001	<LOQ	<LOQ	Valencene	0.002	<LOQ	<LOQ

Total Terpenes: 0.321%

Flavonoids

Specimen Weight: 20.000 mg

Tested
(LCMS)

Mycotoxins

Specimen Weight: 164.900 mg

Passed
(LCMS)

Dilution Factor: 10.000

Analyte	Dilution (1:n)	LOQ (ppm)	Result (ppm)	Analyte	Dilution (1:n)	LOQ (ppm)	Result (ppm)
Apigenin	0.100	4	<LOQ	Kaempferol	0.100	1	<LOQ
Baicalin	0.100	8	<LOQ	Luteolin	0.100	2.5	<LOQ
beta sitosterol	0.100	5	27.860	Orientin	0.100	5	<LOQ
Cannflavin A	0.100	3.91	15.100	Quercetin	0.100	2.23	<LOQ
Cannflavin B	0.100	4.84	12.670	Rutin	0.100	7.81	<LOQ
Cannflavin C	0.100	2.36	<LOQ	Vitexin	0.100	4	<LOQ
Chrysin	0.100	2.5	<LOQ	Wogonin	0.100	0.5	<LOQ
Fisetin	0.100	5	<LOQ				

Dilution Factor: 9.096

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

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Initial Gross Weight: 75.174 g

Pesticides FL V4

Specimen Weight: 164.900 mg

Passed
(LCMS/GCMS)

Dilution Factor: 9.096

Analyte	LOQ (ppb)	Action Level (ppb)	Result (ppb)	Analyte	LOQ (ppb)	Action Level (ppb)	Result (ppb)
Abamectin	28.23	300	<LOQ	Fludioxonil	48	3000	<LOQ
Accephate	30	3000	<LOQ	Hexythiazox	30	2000	<LOQ
Acequinocyl	48	2000	<LOQ	Imazalil	30	100	<LOQ
Acetaminiprid	30	3000	<LOQ	Imidacloprid	30	3000	<LOQ
Aldicarb	30	100	<LOQ	Kresoxim Methyl	30	1000	<LOQ
Azoxystrobin	10	3000	<LOQ	Malathion	30	2000	<LOQ
Bifenazate	30	3000	<LOQ	Metaxyl	10	3000	<LOQ
Bifenthrin	30	500	<LOQ	Methiocarb	30	100	<LOQ
Boscalid	10	3000	<LOQ	Methomyl	30	100	<LOQ
Captan	30	3000	<LOQ	methyl-Parathion	10	100	<LOQ
Carbaryl	10	500	<LOQ	Mevinphos	10	100	<LOQ
Carbofuran	10	100	<LOQ	Myclobutanil	30	3000	<LOQ
Chlorantranilprole	10	3000	<LOQ	Naled	30	500	<LOQ
Chlordane	10	100	<LOQ	Oxamyl	30	500	<LOQ
Chlorfenapyr	30	100	<LOQ	Pacllobutrazol	30	100	<LOQ
Chloromequat Chloride	10	3000	<LOQ	Pentachloronitrobenzene	10	200	<LOQ
Chlorpyrifos	30	100	<LOQ	Permethrin	30	1000	<LOQ
Clofentezine	30	500	<LOQ	Phosmet	30	200	<LOQ
Coumaphos	48	100	<LOQ	Piperonylbutoxide	30	3000	<LOQ
Cyfluthrin	30	1000	<LOQ	Prallethrin	30	400	<LOQ
Cypermethrin	30	1000	<LOQ	Propiconazole	30	1000	<LOQ
Daminozide	30	100	<LOQ	Propoxur	30	100	<LOQ
Diazinon	30	200	<LOQ	Pyrethrins	30	1000	<LOQ
Dichlorvos	30	100	<LOQ	Pyridaben	30	3000	<LOQ
Dimethoate	30	100	<LOQ	Spinetoram	10	3000	<LOQ
Dimethomorph	48	3000	<LOQ	Spinosad	30	3000	<LOQ
Ethoprophos	30	100	<LOQ	Spiromesifen	30	3000	<LOQ
Etofenprox	30	100	<LOQ	Spirotetramat	30	3000	<LOQ
Etoxazole	30	1500	<LOQ	Spiroxamine	30	100	<LOQ
Fenhexamid	10	3000	<LOQ	Tebuconazole	30	1000	<LOQ
Fenoxycarb	30	100	<LOQ	Thiacloprid	30	100	<LOQ
Fenpyroximate	30	2000	<LOQ	Thiamethoxam	30	1000	<LOQ
Fipronil	30	100	<LOQ	Trifloxystrobin	30	3000	<LOQ
Fonicamid	30	2000	<LOQ				

Residual Solvents - FL (CBD)

Specimen Weight: 127.500 mg

Passed
(GCMS)

Dilution Factor: 500.000

Analyte	LOQ (ppm)	Action Level (ppm)	Result (ppm)	Analyte	LOQ (ppm)	Action Level (ppm)	Result (ppm)
1,1-Dichloroethene	0.16	8	<LOQ	Heptane	1.39	5000	<LOQ
1,2-Dichloroethane	0.04	5	<LOQ	Hexane	1.17	290	<LOQ
Acetone	2.08	5000	<LOQ	Isopropyl alcohol	1.39	500	<LOQ
Acetonitrile	1.17	410	<LOQ	Methanol	0.69	3000	<LOQ
Benzene	0.02	2	<LOQ	Methylene chloride	2.43	600	<LOQ
Butanes	2.5	2000	<LOQ	Pentane	2.08	5000	<LOQ
Chloroform	0.04	60	<LOQ	Propane	5.83	2100	<LOQ
Ethanol	2.78	5000	<LOQ	Toluene	2.92	890	<LOQ
Ethyl Acetate	1.11	5000	<LOQ	Total Xylenes	2.92	2170	<LOQ
Ethyl Ether	1.39	5000	<LOQ	Trichloroethylene	0.49	80	<LOQ
Ethylene Oxide	0.1	5	<LOQ				

Pathogenic Microbiology SAE (MicroArray)

Specimen Weight: 1039.740 mg

Passed
(Micro Array)

Dilution Factor: 1.000

Analyte	Result (cfu/g)	Analyte	Result (cfu/g)
Aspergillus flavus	Absence in 1g	Aspergillus terreus	Absence in 1g
Aspergillus fumigatus	Absence in 1g	Salmonella	Absence in 1g
Aspergillus niger	Absence in 1g	STEC E. Coli	Absence in 1g

Heavy Metals

Specimen Weight: 252.100 mg

Passed
(ICP-MS)

Dilution Factor: 198

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

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Xueli Gao Lab Toxicologist
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2,3-butanedione(Diacetyl)

Specimen Weight: 127.500 mg

Passed
(GCMS)

Dilution Factor: 500.000

Analyte	LOQ (ppm)	Result (ppm)
2,3-Butanedione	0.024	<LOQ



Listeria Monocytogenes

Specimen Weight: 995.700 mg

Passed
(qPCR)

Dilution Factor: 1.000

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



Vitamin E (Tocopheryl Acetate)

Specimen Weight: 164.900 mg

Passed
(LC-MS)

Dilution Factor: 9.096

Analyte	Result (ppb)
Vitamin E Acetate	<LOQ

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