ACS LABORATORY | CANNABIS & HEMP BEYOND COMPLIANCE
721 Cortaro Dr.
Sun City Center, FL 33573
www.acslabcannabis.com

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

East Coast Lifter Hemp
Sample Matrix:
CBD/HEMP
Flower & Plants
(Inhalation - Heated)

Certificate of Analysis

R&D

HBH
220 W Brandon Blvd
Brandon, FL 33511

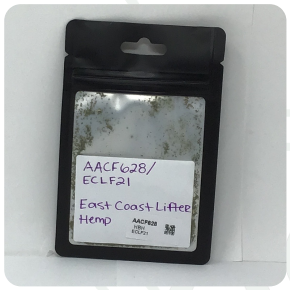
Batch # ECLF21
Batch Date: 2021-10-01
Extracted From: Industrial Hemp

Test Reg State: Florida

Order # HBH211202-020001
Order Date: 2021-12-02
Sample # AACF628

Sampling Date: 2021-12-03
Lab Batch Date: 2021-12-03
Completion Date: 2021-12-06

Initial Gross Weight: 6.092 g



Product Image

Potency
Tested

Potency - 11

Tested
(HPLC/LCMS)

Specimen Weight: 194.000 mg

Analyte	Dilution (1:n)	LOD (%)	LOQ (%)	Result (mg/g)	(%)
CBDA	15.000	0.00001	0.001	87.240	8.724
CBD	15.000	0.000054	0.001	17.700	1.770
CBGA	15.000	0.00008	0.001	1.898	0.190
THCA-A	15.000	0.000032	0.001	1.700	0.170
Delta-9 THC	15.000	0.000013	0.001	1.514	0.151
CBC	15.000	0.000018	0.001	1.148	0.115
CBG	15.000	0.000248	0.001	0.582	0.058
THCV	15.000	0.000007	0.001		<LOQ
Delta-8 THC	15.000	0.000026	0.001		<LOQ
CBN	15.000	0.000014	0.001		<LOQ
CBDV	15.000	0.000065	0.001		<LOQ

Potency Summary

Total THC 0.300%	**Total CBD** 9.421%
Total CBG 0.225%	**Total CBN** None Detected
Other Cannabinoids 0.115%	**Total Cannabinoids** 10.061%

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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HBH
220 W Brandon Blvd
Brandon, FL 33511

Batch # ECLF21
Batch Date: 2021-10-01
Extracted From: Industrial Hemp

Test Reg State: Florida

Order # HBH211206-050001
Order Date: 2021-12-06
Sample # AACF912

Sampling Date: 2021-12-07
Lab Batch Date: 2021-12-07
Completion Date: 2021-12-14

Initial Gross Weight: 19.968 g

Product Image

Terpenes Tested
Heavy Metals Passed
Mycotoxins Passed
Pesticides Passed
Listeria Monocytogenes Passed
Pathogenic Passed

Potency Panel Not Included

Terpenes Summary

Analyte	Result (mg/g)	(%)
beta-Pinene	6.21	0.621%
trans-Caryophyllene	4.18	0.418%
alpha-Humulene	1.76	0.176%
alpha-Bisabolol	1.31	0.131%
(+)-Cedrol	0.79	0.079%
Linalool	0.63	0.063%
alpha-Pinene	0.63	0.063%
(R)-(+)-Limonene	0.61	0.061%
Eucalyptol	0.55	0.055%
Caryophyllene oxide	0.48	0.048%
Guaiol	0.41	0.041%
beta-Myrcene	0.37	0.037%
Fenchyl Alcohol	0.37	0.037%
Farnesene	0.36	0.036%
Valencene	0.32	0.032%
trans-Nerolidol	0.32	0.032%
Total Terpineol	0.3	0.03%
Terpinolene	0.29	0.029%

Total Terpenes: 1.989%

Detailed Terpenes Analysis is on the following page

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

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Flower & Plants
(Inhalation - Heated)

Certificate of Analysis

R&D

HBH
220 W Brandon Blvd
Brandon, FL 33511

Batch # ECLF21
Batch Date: 2021-10-01
Extracted From: Industrial Hemp

Test Reg State: Florida

Order # HBH211206-050001
Order Date: 2021-12-06
Sample # AACF912

Sampling Date: 2021-12-07
Lab Batch Date: 2021-12-07
Completion Date: 2021-12-14

Initial Gross Weight: 19.968 g

Terpenes

Tested
(GC/GCMS)

Specimen Weight: 197.800 mg

Dilution Factor: 30.000

Analyte	LOQ (%)	Result (mg/g)	(%)	Analyte	LOQ (%)	Result (mg/g)	(%)
beta-Pinene	0.002	6.210	0.621	trans-Caryophyllene	0.002	4.180	0.418
alpha-Humulene	0.002	1.760	0.176	alpha-Bisabolol	0.002	1.310	0.131
(+)-Cedrol	0.002	0.790	0.079	Linalool	0.002	0.630	0.063
alpha-Pinene	0.002	0.630	0.063	(R)-(+)-Limonene	0.002	0.610	0.061
Eucalyptol	0.002	0.550	0.055	Caryophyllene oxide	0.002	0.480	0.048
Guaiol	0.002	0.410	0.041	Fenchyl Alcohol	0.002	0.370	0.037
beta-Myrcene	0.002	0.370	0.037	Farnesene	0.002	0.360	0.036
trans-Nerolidol	0.002	0.320	0.032	Valencene	0.002	0.320	0.032
Total Terpineol	0.001	0.300	0.030	Terpinolene	0.002	0.290	0.029
Camphene	0.002		<LOQ	Isopulegol	0.002		<LOQ
3-Carene	0.002		<LOQ	alpha-Cedrene	0.002		<LOQ
Sabinene Hydrate	0.002		<LOQ	Sabinene	0.002		<LOQ
Pulegone	0.002		<LOQ	Ocimene	0.000		<LOQ
Nerol	0.002		<LOQ	Isoborneol	0.002		<LOQ
Camphors	0.006		<LOQ	Hexahydrothymol	0.002		<LOQ
alpha-Phellandrene	0.002		<LOQ	Geranyl acetate	0.002		<LOQ
Geraniol	0.002		<LOQ	Gamma-Terpinene	0.002		<LOQ
alpha-Terpinene	0.002		<LOQ	cis-Nerolidol	0.002		<LOQ
Borneol	0.004		<LOQ	Fenchone	0.002		<LOQ

Total Terpenes: 1.989%

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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Flower & Plants
(Inhalation - Heated)

Certificate of Analysis

R&D

HBH
220 W Brandon Blvd
Brandon, FL 33511

Batch # ECLF21
Batch Date: 2021-10-01
Extracted From: Industrial Hemp

Test Reg State: Florida

Order # HBH211206-050001
Order Date: 2021-12-06
Sample # AACF912

Sampling Date: 2021-12-07
Lab Batch Date: 2021-12-07
Completion Date: 2021-12-14

Initial Gross Weight: 19.968 g

Heavy Metals

Passed
(ICP-MS)

Specimen Weight: 254.380 mg

Dilution Factor: 2.000

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

Passed
(LCMS)

Specimen Weight: 170.400 mg

Dilution Factor: 8.803

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				

Xueli Gao Lab Toxicologist
Ph.D., DABT

Aixia Sun Lab Director/Principal Scientist
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Flower & Plants
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HBH
220 W Brandon Blvd
Brandon, FL 33511

Batch # ECLF21
Batch Date: 2021-10-01
Extracted From: Industrial Hemp

Test Reg State: Florida

Order # HBH211206-050001
Order Date: 2021-12-06
Sample # AACF912

Sampling Date: 2021-12-07
Lab Batch Date: 2021-12-07
Completion Date: 2021-12-14

Initial Gross Weight: 19.968 g

Pesticides FL V4

Specimen Weight: 170.400 mg

Passed
(LCMS/GCMS)

Dilution Factor: 8.803

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
Boscalid	10	3000	<LOQ	Captan	30	3000	<LOQ
Carbaryl	10	500	<LOQ	Carbofuran	10	100	<LOQ
Chlorantraniliprole	10	3000	<LOQ	Chlordane	10	100	<LOQ
Chlorfenapyr	30	100	<LOQ	Chlormequat Chloride	10	3000	<LOQ
Chlorpyrifos	30	100	<LOQ	Clofentezine	30	500	<LOQ
Coumaphos	48	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	48	3000	<LOQ
Ethoprophos	30	100	<LOQ	Etofenprox	30	100	<LOQ
Etoxazole	30	1500	<LOQ	Fenhexamid	10	3000	<LOQ
Fenoxycarb	30	100	<LOQ	Fenpyroximate	30	2000	<LOQ
Fipronil	30	100	<LOQ	Flonicamid	30	2000	<LOQ
Fludioxonil	48	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	methyl-Parathion	10	100	<LOQ
Mevinphos	10	100	<LOQ	Myclobutanil	30	3000	<LOQ
Naled	30	500	<LOQ	Oxamyl	30	500	<LOQ
Paclobutrazol	30	100	<LOQ	Pentachloronitrobenzene	10	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	10	3000	<LOQ	Spinosad	30	3000	<LOQ
Spiromesifen	30	3000	<LOQ	Spirotetramat	30	3000	<LOQ
Spiroxamine	30	100	<LOQ	Tebuconazole	30	1000	<LOQ
Thiacloprid	30	100	<LOQ	Thiamethoxam	30	1000	<LOQ
Trifloxystrobin	30	3000	<LOQ				

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Sample # AACF912

Sampling Date: 2021-12-07
Lab Batch Date: 2021-12-07
Completion Date: 2021-12-14

Initial Gross Weight: 19.968 g

Listeria Monocytogenes

Passed
(qPCR)

Specimen Weight: 984.630 mg

Dilution Factor: 1.000

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

Pathogenic SAE (qPCR)

Passed
(qPCR)

Specimen Weight: 227.720 mg

Dilution Factor: 1.000

Analyte	Action Level (cfu/g)	Result (cfu/g)
Aspergillus (Flavus, Fumigatus, Niger, Terreus)	1	Absence in 1g

Analyte	Action Level (cfu/g)	Result (cfu/g)
E.Coli	1	Absence in 1g
Salmonella	1	Absence in 1g

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