



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

Certificate of Analysis

R&D

HBH
220 W Brandon Blvd
Brandon, FL 33511

Batch # CA21
Batch Date: 2021-11-01
Extracted From: Industrial Hemp

Test Reg State: Florida

Order # HBH211202-020001
Order Date: 2021-12-02
Sample # AACF629

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

Initial Gross Weight: 6.496 g



Potency
Tested

Product Image



Potency - 11

Specimen Weight: 195.290 mg

Tested
(HPLC/LCMS)

Analyte	Dilution (1:n)	LOD (%)	LOQ (%)	Result (mg/g)	Result (%)
CBDA	15.000	0.00001	0.001	92.130	9.213
CBD	15.000	0.000054	0.001	18.900	1.890
THCA-A	15.000	0.000032	0.001	1.740	0.174
CBGA	15.000	0.00008	0.001	1.736	0.174
Delta-9 THC	15.000	0.000013	0.001	1.658	0.166
CBC	15.000	0.000018	0.001	1.032	0.103
CBG	15.000	0.000248	0.001	0.678	0.068
THCV	15.000	0.000007	0.001	<LOQ	<LOQ
Delta-8 THC	15.000	0.000026	0.001	<LOQ	<LOQ
CBN	15.000	0.000014	0.001	<LOQ	<LOQ
CBDV	15.000	0.000065	0.001	<LOQ	<LOQ



Potency Summary

Total THC 0.318%	Total CBD 9.970%
Total CBG 0.220%	Total CBN None Detected
Other Cannabinoids 0.103%	Total Cannabinoids 10.611%

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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Test Reg State: Florida

Order # HBH211206-050001
Order Date: 2021-12-06
Sample # AACF913

Sampling Date: 2021-12-07
Lab Batch Date: 2021-12-07
Completion Date: 2021-12-15

Initial Gross Weight: 22.155 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-Myrcene	9.469	0.947%
trans-Caryophyllene	4.855	0.485%
alpha-Pinene	3.509	0.351%
alpha-Bisabolol	2.484	0.248%
alpha-Humulene	1.287	0.129%
Guaiol	1.06	0.106%
beta-Pinene	0.92	0.092%
(R)-(+)-Limonene	0.745	0.074%
Caryophyllene oxide	0.56	0.056%
Linalool	0.492	0.049%

Total Terpenes: 2.537%

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)
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Extracted From: Industrial Hemp

Test Reg State: Florida

Order # HBH211206-050001
Order Date: 2021-12-06
Sample # AACF913

Sampling Date: 2021-12-07
Lab Batch Date: 2021-12-07
Completion Date: 2021-12-15

Initial Gross Weight: 22.155 g



Terpenes

Specimen Weight: 154.200 mg

Tested
(GC/GCMS)

Dilution Factor: 30.000

Analyte	LOQ (%)	Result (mg/g)	(%)	Analyte	LOQ (%)	Result (mg/g)	(%)
beta-Myrcene	0.002	9.469	0.947	trans-Caryophyllene	0.002	4.855	0.485
alpha-Pinene	0.002	3.509	0.351	alpha-Bisabolol	0.002	2.484	0.248
alpha-Humulene	0.002	1.287	0.129	Guaiol	0.002	1.060	0.106
beta-Pinene	0.002	0.920	0.092	(R)-(+)-Limonene	0.002	0.745	0.074
Caryophyllene oxide	0.002	0.560	0.056	Linalool	0.002	0.492	0.049
Nerol	0.002	<LOQ		Hexahydrothymol	0.002	<LOQ	
Isoborneol	0.002	<LOQ		Isopulegol	0.002	<LOQ	
Pulegone	0.002	<LOQ		Ocimene	0.000	<LOQ	
Total Terpeneol	0.001	<LOQ		Sabinene	0.002	<LOQ	
Geranyl acetate	0.002	<LOQ		Sabinene Hydrate	0.002	<LOQ	
Terpinolene	0.002	<LOQ		trans-Nerolidol	0.002	<LOQ	
(+)-Cedrol	0.002	<LOQ		Fenchone	0.002	<LOQ	
Geraniol	0.002	<LOQ		3-Carene	0.002	<LOQ	
alpha-Cedrene	0.002	<LOQ		alpha-Phellandrene	0.002	<LOQ	
alpha-Terpinene	0.002	<LOQ		Borneol	0.004	<LOQ	
Camphene	0.002	<LOQ		Camphors	0.006	<LOQ	
cis-Nerolidol	0.002	<LOQ		Eucalyptol	0.002	<LOQ	
Farnesene	0.002	<LOQ		Fenchyl Alcohol	0.002	<LOQ	
Gamma-Terpinene	0.002	<LOQ		Valencene	0.002	<LOQ	

Total Terpenes: 2.537%

Xueli Gao
Xueli Gao Lab Toxicologist
Ph.D., DABT

Aixia Sun
Aixia Sun Lab Director/Principal Scientist
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Test Reg State: Florida

Order # HBH211206-050001
Order Date: 2021-12-06
Sample # AACF913

Sampling Date: 2021-12-07
Lab Batch Date: 2021-12-07
Completion Date: 2021-12-15

Initial Gross Weight: 22.155 g



Heavy Metals

Specimen Weight: 254.630 mg

Passed
(ICP-MS)

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

Specimen Weight: 159.450 mg

Passed
(LCMS)

Dilution Factor: 9.407

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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Sample # AACF913

Sampling Date: 2021-12-07
Lab Batch Date: 2021-12-07
Completion Date: 2021-12-15

Initial Gross Weight: 22.155 g



Pesticides FL V4

Specimen Weight: 159.450 mg

Passed
(LCMS/GCMS)

Dilution Factor: 9.407

Analyte	LOQ (ppb)	Action Level (ppb)	Result (ppb)	Analyte	LOQ (ppb)	Action Level (ppb)	Result (ppb)
Abarnectin	28.23	300	<LOQ	Acephate	30	3000	<LOQ
Acequinocyl	48	2000	<LOQ	Acetaminiprid	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
Chlorantranilprole	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
Imazail	30	100	<LOQ	Imidacloprid	30	3000	<LOQ
Kresoxim Methyl	30	1000	<LOQ	Malathion	30	2000	<LOQ
Metaxalyl	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
Paclotrtrazol	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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Initial Gross Weight: 22.155 g



Listeria Monocytogenes

Specimen Weight: 1014.600 mg

Passed
(qPCR)

Dilution Factor: 1.000

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



Pathogenic SAE (qPCR)

Specimen Weight: 238.910 mg

Passed
(qPCR)

Dilution Factor: 1.000

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

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