



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

# Certificate of Analysis

R&D

**HAU PROCESSING**  
2200 E 76TH AVE  
DENVER, CO 80229-6631

Batch # 0100049  
Batch Date: 2021-09-30  
Extracted From: Hemp

Test Reg State: Oregon

Order # HAU210930-090001  
Order Date: 2021-09-30  
Sample # AABZ738

Sampling Date: 2021-10-06  
Lab Batch Date: 2021-10-06  
Completion Date: 2021-10-13

Initial Gross Weight: 45.999 g



Product Image

Potency  
Tested

Terpenes  
Tested

Heavy Metals  
Passed

Mycotoxins  
Passed

Pesticides  
Passed

Residual  
Solvents  
Passed

Pathogenic  
Microbiology  
Passed

Listeria  
Monocytogenes  
Passed



## Potency - 11

Specimen Weight: 34.240 mg

Analyte	Dilution (1:n)	LOD (%)	LOQ (%)	Result (mg/g)	(%)
CBD	1000.000	0.000054	0.001	996.225	99.622
CBDV	1000.000	0.000065	0.001	3.232	0.323
Delta-9 THC	1000.000	0.000013	0.001	0.443	0.044
CBC	1000.000	0.000018	0.001	<LOQ	<LOQ
THCV	1000.000	0.000007	0.001	<LOQ	<LOQ
Delta-8 THC	1000.000	0.000026	0.001	<LOQ	<LOQ
CBN	1000.000	0.000014	0.001	<LOQ	<LOQ
CBGA	1000.000	0.000008	0.001	<LOQ	<LOQ
CBG	1000.000	0.000248	0.001	<LOQ	<LOQ
CBDA	1000.000	0.000001	0.001	<LOQ	<LOQ
THCA-A	1000.000	0.000032	0.001	<LOQ	<LOQ

Tested  
(HPLC/LCMS)



## Potency Summary

Total THC 0.044%	Total CBD 99.622%
Total CBG None Detected	Total CBN None Detected
Other Cannabinoids 0.323%	Total Cannabinoids 99.990%



## Terpenes Summary

Analyte	Result (mg/g)	(%)
Total Terpenes: 0.000%		

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

Specimen Weight: 56.940 mg

Tested  
(GC/GCMS)

Dilution Factor: 20.000

Analyte	LOQ (%)	Result (mg/g)	(%)	Analyte	LOQ (%)	Result (mg/g)	(%)
(+)-Cedrol	0.02	<LOQ	<LOQ	Nerol	0.02	<LOQ	<LOQ
Geraniol	0.02	<LOQ	<LOQ	Geranyl acetate	0.02	<LOQ	<LOQ
Guaiaol	0.02	<LOQ	<LOQ	Hexahydrothymol	0.02	<LOQ	<LOQ
Isoborneol	0.02	<LOQ	<LOQ	Isopulegol	0.02	<LOQ	<LOQ
Linalool	0.02	<LOQ	<LOQ	Ocimene	0.014	<LOQ	<LOQ
Fenchyl Alcohol	0.02	<LOQ	<LOQ	Pulegone	0.02	<LOQ	<LOQ
Sabinene	0.02	<LOQ	<LOQ	Sabinene Hydrate	0.02	<LOQ	<LOQ
Terpinolene	0.02	<LOQ	<LOQ	Total Terpineol	0.02	<LOQ	<LOQ
trans-Caryophyllene	0.02	<LOQ	<LOQ	trans-Nerolidol	0.02	<LOQ	<LOQ
Gamma-Terpinene	0.02	<LOQ	<LOQ	Fenchone	0.02	<LOQ	<LOQ
(R)-(+)-Limonene	0.02	<LOQ	<LOQ	3-Carene	0.02	<LOQ	<LOQ
alpha-Bisabolol	0.02	<LOQ	<LOQ	alpha-Cedrene	0.02	<LOQ	<LOQ
alpha-Humulene	0.02	<LOQ	<LOQ	alpha-Phellandrene	0.02	<LOQ	<LOQ
alpha-Pinene	0.02	<LOQ	<LOQ	alpha-Terpinene	0.02	<LOQ	<LOQ
Farnesene	0.02	<LOQ	<LOQ	beta-Myrcene	0.02	<LOQ	<LOQ
beta-Pinene	0.02	<LOQ	<LOQ	Borneol	0.04	<LOQ	<LOQ
Camphene	0.02	<LOQ	<LOQ	Camphors	0.04	<LOQ	<LOQ
Caryophyllene oxide	0.02	<LOQ	<LOQ	cis-Nerolidol	0.02	<LOQ	<LOQ
Eucalyptol	0.02	<LOQ	<LOQ	Valencene	0.02	<LOQ	<LOQ

**Total Terpenes: 0.000%**

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

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



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## H Heavy Metals Passed (ICP-MS)

Specimen Weight: 253.500 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: 164.500 mg

Dilution Factor: 9.119

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: 164.500 mg

**Passed**  
(LCMS/GCMS)

Dilution Factor: 9.119

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
Etoxazole	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
Metaxyl	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	Pacllobutrazol	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	Thiacloprid	30	100	<LOQ
Thiamethoxam	30	1000	<LOQ	Trifloxystrobin	30	3000	<LOQ

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## Residual Solvents - FL (CBD)

Specimen Weight: 105.500 mg

**Passed**  
(GCMS)

Dilution Factor: 50.000

Analyte	LOQ (ppm)	Action Level (ppm)	Result (ppm)	Analyte	LOQ (ppm)	Action Level (ppm)	Result (ppm)
1,1-Dichloroethene	0.16	8	<LOQ	1,2-Dichloroethane	0.04	5	<LOQ
Acetone	2.08	5000	<LOQ	Acetonitrile	1.17	410	<LOQ
Benzene	0.02	2	<LOQ	Butanes	2.5	2000	<LOQ
Chloroform	0.04	60	<LOQ	Ethanol	2.78	5000	<LOQ
Ethyl Acetate	1.11	5000	<LOQ	Ethyl Ether	1.39	5000	<LOQ
Ethylene Oxide	0.1	5	<LOQ	Heptane	1.39	5000	<LOQ
Hexane	1.17	290	<LOQ	Isopropyl alcohol	1.39	500	<LOQ
Methanol	0.69	3000	<LOQ	Methylene chloride	2.43	600	<LOQ
Pentane	2.08	5000	680.284	Propane	5.83	2100	<LOQ
Toluene	2.92	890	<LOQ	Total Xylenes	2.92	2170	<LOQ
Trichloroethylene	0.49	80	<LOQ				

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## Pathogenic Microbiology SAE (MicroArray)

**Passed**  
(Micro Array)

Specimen Weight: 1030.400 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



## Listeria Monocytogenes

**Passed**  
(qPCR)

Specimen Weight: 1006.810 mg

Dilution Factor: 1.000

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

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