



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

# Certificate of Analysis

## Compliance Test

**PANTHER CITY PROCESSING**  
11842 S SOONER RD  
EDMOND, OK 73034

Batch # 27APR21.CV1GCL  
Batch Date: 2021-04-27  
Extracted From: hemp

Sampling Method: MSP 7.3.1 Test Reg  
State: Florida

Order # PAN210506-120056  
Order Date: 2021-05-06  
Sample # AABH795

Sampling Date: 2021-05-11  
Lab Batch Date: 2021-05-11  
Completion Date: 2021-05-19

Initial Gross Weight: 179.051 g  
Net Weight: 12.871 g

Number of Units: 14  
Net Weight per Unit: 919.357 mg



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

### Delta 8/Delta 10 Potency 12

Specimen Weight: 45.580 mg

Analyte	Dilution (1:n)	LOD (%)	LOQ (%)	Result (mg/g)	(%)
Delta-8 THC	100.000	0.000026	0.001	742.600	74.260
CBC	100.000	0.000018	0.001	5.544	0.554
CBGA	100.000	0.000008	0.001	<LOQ	<LOQ
Delta-9 THC	100.000	0.000013	0.001	<LOQ	<LOQ
CBDA	100.000	0.000001	0.001	<LOQ	<LOQ
CBDV	100.000	0.000065	0.001	<LOQ	<LOQ
CBG	100.000	0.000248	0.001	<LOQ	<LOQ
CBN	100.000	0.000014	0.001	<LOQ	<LOQ
Delta-10 THC	1000.000	0.000003	0.001	<LOQ	<LOQ
CBD	100.000	0.000054	0.001	<LOQ	<LOQ
THCV	100.000	0.000007	0.001	<LOQ	<LOQ
THCA-A	100.000	0.000032	0.001	<LOQ	<LOQ

Tested (LCUV)

### Potency Summary

<b>Total Delta 8</b> 74.260%	682.715mg	<b>Total Delta 10</b> None Detected
<b>Total THC</b> None Detected		<b>Total CBD</b> None Detected
<b>Total CBG</b> None Detected		<b>Total CBN</b> None Detected
<b>Other Cannabinoids</b> 0.554%	5.097mg	<b>Total Cannabinoids</b> 74.814% 687.812mg

### Terpenes Summary

Analyte	Result (mg/ml)	(%)
trans-Caryophyllene	1.487	0.149%
Terpinolene	1.129	0.113%
OCimene	0.338	0.034%

**Total Terpenes: 0.296%**

Detailed Terpenes Analysis is on the following page

*Xueli Gao*  
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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Sample # AABH795

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Completion Date: 2021-05-19

Initial Gross Weight: 179.051 g  
Net Weight: 12.871 g

Number of Units: 14  
Net Weight per Unit: 919.357 mg



### Terpenes - FL

Specimen Weight: 189.500 mg

Tested  
(GC/GCMS)

Dilution Factor: 1000.000

Analyte	LOQ (%)	Result (mg/g)	(%)	Analyte	LOQ (%)	Result (mg/g)	(%)
trans-Caryophyllene	0.02	1.487	0.149	Terpinolene	0.02	1.129	0.113
Ocimene	0.014	0.338	0.034	Linalool	0.02	<LOQ	
Geraniol	0.02	<LOQ		Geranyl acetate	0.02	<LOQ	
Guaiol	0.02	<LOQ		Hexahydrothymol	0.02	<LOQ	
Isoborneol	0.02	<LOQ		Isopulegol	0.02	<LOQ	
(+)-Cedrol	0.02	<LOQ		Nerol	0.02	<LOQ	
Fenchyl Alcohol	0.02	<LOQ		Pulegone	0.02	<LOQ	
Sabinene	0.02	<LOQ		Sabinene Hydrate	0.02	<LOQ	
Terpineol	0.02	<LOQ		trans-Nerolidol	0.02	<LOQ	
Gamma-Terpinene	0.02	<LOQ		Fenchone	0.02	<LOQ	
(R)-(+)-Limonene	0.02	<LOQ		alpha-Terpinene	0.02	<LOQ	
3-Carene	0.02	<LOQ		alpha-Bisabolol	0.02	<LOQ	
alpha-Cedrene	0.02	<LOQ		alpha-Humulene	0.02	<LOQ	
alpha-Phellandrene	0.02	<LOQ		alpha-Pinene	0.02	<LOQ	
Farnesene	0.02	<LOQ		beta-Myrcene	0.02	<LOQ	
beta-Pinene	0.02	<LOQ		Borneol	0.04	<LOQ	
Camphene	0.02	<LOQ		Camphors	0.04	<LOQ	
Caryophyllene oxide	0.02	<LOQ		cis-Nerolidol	0.02	<LOQ	
Eucalyptol	0.02	<LOQ		Valencene	0.02	<LOQ	

Total Terpenes: 0.296%

*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: 246.660 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

## 2,3-butanedione (Diacyl) Passed (GCMS)

Specimen Weight: 12.900 mg

Dilution Factor: 1.000

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

## Mycotoxins Passed (LCMS)

Specimen Weight: 181.720 mg

Dilution Factor: 8.255

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 FL V4** **Passed**  
(LCMS/GCMS)  
Specimen Weight: 181.720 mg

Dilution Factor: 8.255

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	Chloromequat 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	Fonicamid	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
Metaxyl	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
Paclbutrazol	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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### Residual Solvents - FL (CBD) Passed (GCMS)

Specimen Weight: 12.900 mg

Dilution Factor: 1.000

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	Passed
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	<LOQ	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: 1008.540 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: 1012.300 mg

Dilution Factor: 1.000

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

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### Vitamin E (Tocopheryl Acetate)

Passed  
(LC-MS)

Net Weight: 12.871 g

Analyte	LOQ (ppb)	Result (ppb)
Vitamin E Acetate	10	<LOQ

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Definitions and Abbreviations used in this report: \*Total CBD = CBD + (CBD-A \* 0.877), \*Total THC = THCA-A \* 0.877 + Delta 9 THC, \*CBG Total = (CBGA \* 0.877) + CBG, \*CBN Total = (CBNA \* 0.877) + CBN, \*Other Cannabinoids Total = CBC + CBDV + THCV + THCV-A, \*Total Detected Cannabinoids = CBD Total + CBG Total + CBN Total + THC Total + CBC + CBDV + THCV + THCV-A, \*Analyte Details above show the Dry Weight Concentrations unless specified as 12% moisture concentration. (mg/ml) = Milligrams per Milliliter, LOQ = Limit of Quantitation, LOD = Limit of Detection, Dilution = Dilution Factor (ppb) = Parts per Billion, (%) = Percent, (cfu/g) = Colony Forming Unit per Gram (cfu/g) = Colony Forming Unit per Gram, , LOD = Limit of Detection, (µg/g) = Microgram per Gram (ppm) = Parts per Million, (ppm) = (µg/g), (aw) = aw (area ratio) = Area Ratio, (mg/Kg) = Milligram per Kilogram, \*Measurement of Uncertainty = +/- 5%



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