



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.CV1GGV
Batch Date: 2021-04-27
Extracted From: hemp

Sampling Method: MSP 7.3.1 Test Reg
State: Florida

Production Date: 2021-04-27

Order # PAN210506-120056
Order Date: 2021-05-06
Sample # AABH794

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

Initial Gross Weight: 180.576 g
Net Weight: 14.396 g

Number of Units: 14
Net Weight per Unit: 1028.286 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: 50.530 mg

Analyte	Dilution (1:n)	LOD (%)	LOQ (%)	Result (mg/g)	(%)
Delta-8 THC	100.000	0.000026	0.001	745.200	74.520
CBC	100.000	0.000018	0.001	4.920	0.492
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

Total Delta 8 74.520%	766.279mg	Total Delta 10 None Detected
Total THC None Detected		Total CBD None Detected
Total CBG None Detected		Total CBN None Detected
Other Cannabinoids 0.492%	5.059mg	Total Cannabinoids 75.012%
		771.338mg

Terpenes Summary

Analyte	Result (mg/ml)	(%)
trans-Caryophyllene	9.737	0.974%
Valencene	7.649	0.765%
(R)-(+)-Limonene	5.476	0.548%
alpha-Bisabolol	3.824	0.382%
alpha-Humulene	3.668	0.367%
beta-Myrcene	3.067	0.307%
Linalool	2.453	0.245%
Terpineol	1.603	0.16%
beta-Pinene	1.336	0.134%

Total Terpenes: 3.882%

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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Sample # AABH794

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Net Weight: 14.396 g

Number of Units: 14
Net Weight per Unit: 1028.286 mg



Terpenes - FL

Specimen Weight: 150.510 mg

Tested
(GC/GCMS)

Dilution Factor: 1000.000

Analyte	LOQ (%)	Result (mg/g)	(%)	Analyte	LOQ (%)	Result (mg/g)	(%)
trans-Caryophyllene	0.02	9.974	0.974	Valencene	0.02	7.649	0.765
(R)-(+)-Limonene	0.02	5.476	0.548	alpha-Bisabolol	0.02	3.824	0.382
alpha-Humulene	0.02	3.668	0.367	beta-Myrcene	0.02	3.067	0.307
Linalool	0.02	2.453	0.245	Terpineol	0.02	1.603	0.160
beta-Pinene	0.02	1.336	0.134	Terpinolene	0.02	<LOQ	<LOQ
Sabinene Hydrate	0.02	<LOQ	<LOQ	Sabinene	0.02	<LOQ	<LOQ
Geranyl acetate	0.02	<LOQ	<LOQ	Pulegone	0.02	<LOQ	<LOQ
Ocimene	0.014	<LOQ	<LOQ	Nerol	0.02	<LOQ	<LOQ
Isopulegol	0.02	<LOQ	<LOQ	Isoborneol	0.02	<LOQ	<LOQ
Hexahydrothymol	0.02	<LOQ	<LOQ	trans-Nerolidol	0.02	<LOQ	<LOQ
Guaiol	0.02	<LOQ	<LOQ	(+)-Cedrol	0.02	<LOQ	<LOQ
Geraniol	0.02	<LOQ	<LOQ	3-Carene	0.02	<LOQ	<LOQ
alpha-Cedrene	0.02	<LOQ	<LOQ	alpha-Phellandrene	0.02	<LOQ	<LOQ
alpha-Pinene	0.02	<LOQ	<LOQ	alpha-Terpinene	0.02	<LOQ	<LOQ
Borneol	0.04	<LOQ	<LOQ	Gamma-Terpinene	0.02	<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	Farnesene	0.02	<LOQ	<LOQ
Fenchyl Alcohol	0.02	<LOQ	<LOQ	Fenchone	0.02	<LOQ	<LOQ

Total Terpenes: 3.882%

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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Number of Units: 14
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H Heavy Metals Passed (ICP-MS)

Specimen Weight: 252.190 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 (Diacetyl) Passed (GCMS)

Specimen Weight: 13.300 mg

Dilution Factor: 1.000

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

Mycotoxins Passed (LCMS)

Specimen Weight: 154.410 mg

Dilution Factor: 9.714

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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Number of Units: 14
Net Weight per Unit: 1028.286 mg

Pesticides FL V4 **Passed**
(LCMS/GCMS)
Specimen Weight: 154.410 mg

Dilution Factor: 9.714

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	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
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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Net Weight: 14.396 g

Number of Units: 14
Net Weight per Unit: 1028.286 mg

Residual Solvents - FL (CBD) Passed (GCMS)

Specimen Weight: 13.300 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	<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	<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: 1048.070 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: 1011.700 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: 14.396 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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