



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

# Certificate of Analysis

## Compliance Test

**Hempingus.com**

Batch # 210324MK  
Batch Date: 2021-03-24  
Extracted From: Hemp

Sampling Method: MSP 7.3.1 Test Reg  
State: Florida

Order # GRO210329-010066  
Order Date: 2021-03-29  
Sample # AABD661

Sampling Date: 2021-04-07  
Lab Batch Date: 2021-04-07  
Completion Date: 2021-04-15

Initial Gross Weight: 101.600 g  
Net Weight: 10.172 g

Number of Units: 1  
Net Weight per Unit: 1000.000 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	Pathogenic Passed
Vitamin E Passed				

### Delta 8/Delta 10 Potency

## 12

Tested (LCUV)

Specimen Weight: 56.960 mg

Analyte	Dilution (1:n)	LOD (%)	LOQ (%)	Result (mg/g)	(%)
Delta-8 THC	100.000	0.000026	0.001	833.300	83.330
Delta-10 THC	1000.000	0.000003	0.001	<LOQ	<LOQ
Delta-9 THC	100.000	0.000013	0.001	<LOQ	<LOQ
CBC	100.000	0.000018	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
CBN	100.000	0.000014	0.001	<LOQ	<LOQ
CBGA	100.000	0.00008	0.001	<LOQ	<LOQ
CBG	100.000	0.000248	0.001	<LOQ	<LOQ
CBDV	100.000	0.000065	0.001	<LOQ	<LOQ
CBDA	100.000	0.00001	0.001	<LOQ	<LOQ

### Potency Summary

<b>Total Delta 8</b> 83.330%	833.300mg	<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> None Detected		<b>Total Cannabinoids</b> 83.330% 833.300mg

### Terpenes Summary

Analyte	Result (mg/ml)	(%)
trans-Caryophyllene	27.017	2.702%
(R)-(+)-Limonene	20.715	2.071%
beta-Myrcene	20.213	2.021%
alpha-Humulene	3.598	0.36%
Linalool	3.554	0.355%
alpha-Pinene	2.281	0.228%
Terpinolene	1.567	0.157%

**Total Terpenes: 7.894%**

Detailed Terpenes Analysis is on the following page

*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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Completion Date: 2021-04-15

Initial Gross Weight: 101.600 g  
Net Weight: 10.172 g

Number of Units: 1  
Net Weight per Unit: 1000.000 mg



## Terpenes - FL

Specimen Weight: 165.160 mg

Tested  
(GC/GCMS)

Dilution Factor: 1000.000

Analyte	LOQ (%)	Result (mg/g)	(%)	Analyte	LOQ (%)	Result (mg/g)	(%)
trans-Caryophyllene	0.02	27.017	2.702	(R)-(+)-Limonene	0.02	20.715	2.071
beta-Myrcene	0.02	20.213	2.021	alpha-Humulene	0.02	3.598	0.360
Linalool	0.02	3.554	0.355	alpha-Pinene	0.02	2.281	0.228
Terpinolene	0.02	1.567	0.157	Nerol	0.02	<LOQ	<LOQ
Guaiol	0.02	<LOQ	<LOQ	Hexahydrothymol	0.02	<LOQ	<LOQ
Isoborneol	0.02	<LOQ	<LOQ	Isopulegol	0.02	<LOQ	<LOQ
(+)-Cedrol	0.02	<LOQ	<LOQ	Ocimene	0.014	<LOQ	<LOQ
Pulegone	0.02	<LOQ	<LOQ	Geraniol	0.02	<LOQ	<LOQ
Sabinene	0.02	<LOQ	<LOQ	Sabinene Hydrate	0.02	<LOQ	<LOQ
Terpineol	0.02	<LOQ	<LOQ	trans-Nerolidol	0.02	<LOQ	<LOQ
Geranyl acetate	0.02	<LOQ	<LOQ	Fenchone	0.02	<LOQ	<LOQ
Gamma-Terpinene	0.02	<LOQ	<LOQ	3-Carene	0.02	<LOQ	<LOQ
alpha-Bisabolol	0.02	<LOQ	<LOQ	alpha-Cedrene	0.02	<LOQ	<LOQ
alpha-Phellandrene	0.02	<LOQ	<LOQ	alpha-Terpinene	0.02	<LOQ	<LOQ
beta-Pinene	0.02	<LOQ	<LOQ	Fenchyl Alcohol	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
Farnesene	0.02	<LOQ	<LOQ	Valencene	0.02	<LOQ	<LOQ

Total Terpenes: 7.894%

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

*Aixia Sun*  
Aixia Sun Lab Director/Principal Scientist  
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## H Heavy Metals Passed (ICP-MS)

Specimen Weight: 251.270 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: 9.900 mg

Dilution Factor: 1.000

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

## 🍄 Mycotoxins Passed (LCMS)

Specimen Weight: 187.600 mg

Dilution Factor: 7.996

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: 1  
Net Weight per Unit: 1000.000 mg

**Pesticides FL V4** **Passed**  
(LCMS/GCMS)  
Specimen Weight: 187.600 mg

Dilution Factor: 7.996

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	Clofentazine	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
Paclotrazol	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: 101.600 g  
Net Weight: 10.172 g

Number of Units: 1  
Net Weight per Unit: 1000.000 mg

### Residual Solvents - FL (CBD) Passed (GCMS)

Specimen Weight: 110.000 mg

Dilution Factor: 1.000

Analyte	LOQ (ppm)	Action Level (ppm)	Result (ppm)	Analyte	LOQ (ppm)	Action Level (ppm)	Result (ppm)
1,1-Dichloroethane	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 - A (MicroArray) Passed (Micro Array)

Specimen Weight: 187.600 mg

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

## Listeria Monocytogenes Passed (qPCR)

Specimen Weight: 478.800 mg

Dilution Factor: 1.000

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

## Pathogenic SAE (qPCR) Passed (qPCR)

Specimen Weight: 235.200 mg

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

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### **E** Vitamin E (Tocopheryl Acetate)

Net Weight: 10.172 g

**Passed**  
(LC-MS)

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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