



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

# Certificate of Analysis

R&D

**CAROLINA HEMP REFINERY** Batch # CHR-litbar-fire OG-011 Test Reg State: Florida Production Facility: Carolina Hemp Refinery  
800 UNION RIDGE ROAD Batch Date: 2021-02-16 Extracted From: Hemp Production Date: 2021-02-15  
BURLINGTON, NC 27217

Order # CAR210216-040002 Sampling Date: 2021-02-18 Initial Gross Weight: 180.745 g  
Order Date: 2021-02-16 Lab Batch Date: 2021-02-18  
Sample # AAAZ723 Completion Date: 2021-02-24



Product Image

**Potency Tested** **Terpenes Tested** **Heavy Metals Passed** **2-3-Butanedione Passed** **Mycotoxins Passed**  
**Pesticides Passed** **Residual Solvents Passed** **Listeria Monocytogenes Passed** **Pathogenic Passed** **Vitamin E Passed**

**Delta 8/Delta 10 Potency**  
**12**

**Tested**  
(LCUV)

Specimen Weight: 52.430 mg

Analyte	Dilution (1:n)	LOD (%)	LOQ (%)	Result (mg/g)	(%)
Delta-8 THC	10.000	0.000026	0.001	838.400	83.840
CBN	10.000	0.000014	0.001	0.802	0.080
THCV	10.000	0.000007	0.001	0.759	0.076
Delta-9 THC	10.000	0.000013	0.001	<LOQ	<LOQ
CBC	10.000	0.000018	0.001	<LOQ	<LOQ
Delta-10 THC	10.000	0.000003	0.001	<LOQ	<LOQ
CBD	10.000	0.000054	0.001	<LOQ	<LOQ
THCA-A	10.000	0.000032	0.001	<LOQ	<LOQ
CBGA	10.000	0.000008	0.001	<LOQ	<LOQ
CBG	10.000	0.000248	0.001	<LOQ	<LOQ
CBDV	10.000	0.000065	0.001	<LOQ	<LOQ
CBDA	10.000	0.00001	0.001	<LOQ	<LOQ

**Potency Summary**

<b>Total CBD</b> None Detected	<b>Total THC</b> None Detected
<b>Total CBG</b> None Detected	<b>Total CBN</b> 0.080%
<b>Other Cannabinoids</b> 83.916%	<b>Total Cannabinoids</b> 83.996%

**Terpenes Summary**

Analyte	Result (mg/ml)	(%)
(R)-(+)-Limonene	6.03	0.603%
trans-Caryophyllene	5.87	0.587%
beta-Myrcene	4.55	0.455%
Linalool	1.91	0.191%
Terpinolene	1.31	0.131%
Terpineol	0.9	0.09%
Fenchyl Alcohol	0.84	0.084%
alpha-Pinene	0.77	0.077%
beta-Pinene	0.66	0.066%
alpha-Humulene	0.59	0.059%
Ocimene	0.15	0.015%

**Total Terpenes: 2.358%**

Detailed Terpenes Analysis is on the following page

Xueli Gao Lab Toxicologist  
Ph.D., DABT

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



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Production Date: 2021-02-15

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Order Date: 2021-02-16  
Sample # AAAZ723

Sampling Date: 2021-02-18  
Lab Batch Date: 2021-02-18  
Completion Date: 2021-02-24

Initial Gross Weight: 180.745 g



## Terpenes - FL

Specimen Weight: 118.850 mg

Tested  
(GC)

Dilution Factor: 250.000

Analyte	LOQ (%)	Result (mg/g)	(%)	Analyte	LOQ (%)	Result (mg/g)	(%)
(R)-(+)-Limonene	0.02	6.030	0.603	trans-Caryophyllene	0.02	5.870	0.587
beta-Myrcene	0.02	4.550	0.455	Linalool	0.02	1.910	0.191
Terpinolene	0.02	1.310	0.131	Terpineol	0.02	0.900	0.090
Fenchyl Alcohol	0.02	0.840	0.084	alpha-Pinene	0.02	0.770	0.077
beta-Pinene	0.02	0.660	0.066	alpha-Humulene	0.02	0.590	0.059
Ocimene	0.014	0.150	0.015	Hexahydrothymol	0.02	<LOQ	
Isoborneol	0.02	<LOQ		Isopulegol	0.02	<LOQ	
(+)-Cedrol	0.02	<LOQ		Nerol	0.02	<LOQ	
Pulegone	0.02	<LOQ		Geranyl acetate	0.02	<LOQ	
Sabinene	0.02	<LOQ		Sabinene Hydrate	0.02	<LOQ	
trans-Nerolidol	0.02	<LOQ		Guaiol	0.02	<LOQ	
Fenchone	0.02	<LOQ		Geraniol	0.02	<LOQ	
3-Carene	0.02	<LOQ		alpha-Bisabolol	0.02	<LOQ	
alpha-Cedrene	0.02	<LOQ		alpha-Phellandrene	0.02	<LOQ	
alpha-Terpinene	0.02	<LOQ		Borneol	0.04	<LOQ	
Gamma-Terpinene	0.02	<LOQ		Camphene	0.02	<LOQ	
Camphors	0.04	<LOQ		Caryophyllene oxide	0.02	<LOQ	
cis-Nerolidol	0.02	<LOQ		Eucalyptol	0.02	<LOQ	
Farnesene	0.02	<LOQ		Valencene	0.02	<LOQ	

Total Terpenes: 2.358%

*Xueli Gao*  
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## H Heavy Metals Passed (ICP-MS)

Specimen Weight: 252.650 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
Total Contaminant Load (TCL) <b>None Detected</b>							

## 🍌 2,3-butanedione(Diacetyl) Passed (GCMS)

Specimen Weight: N/A Dilution Factor: 1.000

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

## ⚙️ Mycotoxins Passed (LCMS)

Specimen Weight: 172.950 mg

Dilution Factor: 8.673

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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Completion Date: 2021-02-24

Initial Gross Weight: 180.745 g



## Pesticides FL V4

Specimen Weight: 172.950 mg

**Passed**  
(LCMS/GCMS)

Dilution Factor: 8.673

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	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	Total Contaminant Load (TCL)	None Detected		

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Initial Gross Weight: 180.745 g

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

Specimen Weight: 123.700 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				

## Listeria Monocytogenes Passed (qPCR)

Specimen Weight: 973.200 mg

Dilution Factor: 1.000

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

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**Pathogenic SAE (qPCR)** **Passed**  
(qPCR)

Specimen Weight: 235.200 mg

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

**Vitamin E (Tocopheryl Acetate)** **Passed**  
(LC-MS)

Specimen Weight: N/A

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

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