NC Controlled Substance License #: NC-DHHS-1002881 DEA Controlled Substance License #: RD0577986 ISO 17025 Certification: PENDING Proficiency Testing Enrolled: Hemp PT Program U of Kentucky Regulatory Services



Laboratory Location 6308 Angus Drive, Ste B

Raleigh NC 27617 919-673-7153 / 919-450-1870 frank@delta9analytical.com michael@delta9analytical.com

Client Name: Carolina Hemp Refinery Client Address: 800 Union Ridge Rd Burlington, NC 27217 Grower/Processer Lic#: NC HP908 Sample ID: **5029** Sample N Received Date: 03092022 Reported Date: 03172022 Test(s) Ordered: **Full Panel** 

 Sample Name:
 CHR-THCO-Purekana-dualbar-ssdnl-001

 Sample Type:
 Extract

 Sample Matrix:
 Concentrate

 Sample Size:
 24g Test Size:

# **CANNABINOID SUMMARY**

TOTAL CANNABINOIDS: 3.124% \*∆9-THC-O-Ac: 1.972% TOTAL THC: 0.1080% ∆9-THC: 0.1080%

\*Total estimated  $\Delta$ 8-THC-O-Acetate: ~93%



### **CANNABINOIDS** (Liquid Chromatography Mass Spectrometry - LCMS)

ANALYTE	MASS (%)	MASS (mg/g)	LOQ (%)	ANALYTE	MASS (%)	MASS (mg/g)	LOQ (%)
Cannabinol (CBN)	ND	ND	0.02	$\Delta$ 9-THC-O-Acetate	1.972	19.72	0.02
∆8-THC	0.5525	5.525	0.02	Cannabicitran <b>(CBT)</b>		4.914	0.02
Cannabichromene (CBC)	ND	ND	0.02	Cannabidivarin Acid <b>(CBDVA)</b>	NA	NA	0.02
Cannabigerol (CBG)	ND	ND	0.02	Cannabidolic Acid (CBDA)	ND	ND	0.02
Cannabidiol <b>(CBD)</b>	ND	ND	0.02	∆9-THC Acid <b>(THCA)</b>	ND	ND	0.02
Cannabigerolic Acid (CBGA)	ND	ND	0.02	THC-varian <b>(THCV)</b>	ND	ND	0.02
Cannabidivarin <b>(CBDV)</b>	ND	ND	0.02	***∆9-THC	0.1080	1.080	0.02
6aR,9S-∆10-THC	NA	NA	0.02	**TOTAL CANNABINOIDS	3.124	31.24	
6aR,9R-∆10-THC	NA	NA	0.02	*TOTAL THC	0.1080	1.080	

\*Calculated as follows: Total CBD/G/V = CBD/GA/VA% (0.877) + CBD/G/V%. Total THC = THCA% (0.877) + △9-THC %. \*\*Total Cannabinoids is the absolute sum of all cannabinoids detected. ND = Not Detected



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SUN – SUPER SOUR DIESEL

### **TERPENE SUMMARY**

**TOTAL:** 2.350%

### **PRIMARY AROMAS**

Citrusy, Floral, Piney,

Spicy, Woody, Earthy

# TERPENES (GC FID)

ANALYTE	MASS (%)	MASS (mg/g)	LOQ (%)	ANALYTE	MASS (%)	MASS (mg/g)	LOQ (%)
Terpinolene	1.454	14.54	0.005	$\alpha$ -Bisabolol	<0.005	<0.05	0.005
$\delta$ -Limonene	0.199	1.989	0.005	cis-Nerolidol 1	<0.005	<0.05	0.005
$\beta$ -Caryophyllene	0.186	1.858	0.005	γ-Terpinene	<0.005	<0.05	0.005
$\beta$ -Myrcene	0.145	1.452	0.005	<i>p</i> -Cymene	<0.005	<0.05	0.005
$\alpha$ -Humulene	0.106	1.0571	0.005	Eucalyptol	ND	ND	0.005
$\alpha$ -Ocimene 1	0.103	1.030	0.005	3-Carene	ND	ND	0.005
Linalool	0.063	0.6255	0.005	$\alpha$ -Terpinene	ND	ND	0.005
$\beta$ -Pinene	0.043	0.4303	0.005	Camphene	ND	ND	0.005
$\alpha$ -Pinene	0.019	0.1870	0.005	trans-Nerolidol 2	ND	ND	0.005
Geraniol	0.015	0.1487	0.005	$\beta$ -Ocimene 2	ND	ND	0.005
Caryophyllene Oxide	0.010	0.1045	0.005	Isopulegol	ND	ND	0.005
Guaiol	0.008	0.0757	0.005				

HEAVY METALS								
Analyte	Mass (PPM)	LOQ (PPM)						
Arsenic	<0.001	0.001						
Cadmium	<0.015	0.015						
Lead	<0.015	0.015						
Mercury	0.010	0.001						
Method: ICP-N	AS <b>ND</b> = N	ot Detected						

MICROBIALS							
Organism	Results						
	(CFU)						
Aspergillus fumigatus	PASS						
Aspergillus terreus	PASS						
Aspergillus niger	PASS						
Aspergillus flavus	PASS						
TOTAL Entero	PASS						
bacteriaceae	FA33						
E. Coli	PASS						
Method: DRBC agar, Total	Aerobic Dip						
slide; Total Enterobacteriad	eae & E. coli						
Petrifilm							

ΜΥCOTOXINS								
Toxin	LOQ PPM	Units PPM						
Aflatoxin B1	20	ND						
Aflatoxin B2	20	ND						
Aflatoxin G1	20	ND						
Aflatoxin G2	20	ND						
TOTAL Aflatoxins	20	ND						
Ochratoxin A	20	ND						
Method: LCMS	ND = Not	Detected						

# RESULT CERTIFICATION



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Frank P. Maurio COO/Michael R. Horton CSO & Date



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Solvent	Result (PPM)	LOQ (PPM)	Solvent	Result (PPM)	LOQ (PPM)	Solvent	Result (PPM)	LOQ (PPM)
Acetone	ND	25	Ethanol	ND	100	2-Propanol	ND	25
Acetonitrile	ND	5	Ethyl Acetate	ND	5	Toluene	ND	1
Benzene	ND	1	(C7) <i>n</i> -Heptane	ND	5	Trichloroethene	ND	1
Chloroform	ND	1	(C6) n-Hexane	ND	5	<i>m</i> -Xylene	ND	5 total
Cyclohexane	ND	6	Methanol	ND	25	<i>o</i> -Xylene	ND	5 total
1,2-Dichloroethane	ND	1	Methylene Chloride	ND	1	<i>p</i> -Xylene	ND	5 total
Diethyl ether	ND	20	(C5) <i>n</i> -Pentane	ND	5			

# **PESTICIDES** (62 pesticides by Liquid Chromatography Mass Spectrometry – LCMS; ND = Not Detected)

ANALYTE	<b>LOQ</b> (PPB)	MASS (PPB)	ANALYTE	LOQ (PPB)	MASS (PPB)	ANALYTE	LOQ (PPB)	MASS (PPB)
Abamectin	100	ND	Diazinon	100	ND	Myclobutanil	100	ND
Acephate	100	ND	Dimethoate	100	ND	Oxamyl	100	ND
Acequinocyl	100	ND	Dimethomorph	100	ND	Paclobutrazol	100	ND
Acetamiprid	100	ND	Ethoprophos	100	ND	Permethrin	100	ND
Aldicarb	100	ND	Etofenprox	100	ND	Phosmet	100	ND
Azoxystrobin	100	ND	Etoxazole	100	ND	Piperonyl Butoxide	100	ND
Bifenazate	100	ND	Fenhexamid	100	ND	Prallethrin	100	ND
Bifenthrin	100	ND	Fenoxycarb	100	ND	Propiconazole	100	ND
Boscalid	100	ND	Fenpyrozimate	100	ND	Propoxur	100	ND
Carbaryl	100	ND	Fipronil	100	ND	Pyrethrins	100	ND
Carbofuran	100	ND	Flonicamid	100	ND	Pyridaben	100	ND
Chlorantraniliprole	100	ND	Fludioxonil	100	ND	Spinetoram	100	ND
Chlordane	100	ND	Hexythiazox	100	ND	Spinosad	100	ND
Chlorfenapyr	100	ND	Imazalil	100	ND	Spinoxamine	100	ND
Chlorpyrifos	100	ND	Imidacloprid	100	ND	Spiromesifen	100	ND
Clofentezine	100	ND	Kresoxim Methyl	100	ND	Spirotetramat	100	ND
Coumaphos	100	ND	Malathion	100	ND	Tebuconazole	100	ND
Cyfluthrin	100	ND	Metalaxyl	100	ND	Thiacloprid	100	ND
Cypermethrin	100	ND	Methiocarb	100	ND	Thiamethoxam	100	ND
Daminozide	100	ND	Methomyl	100	ND	Trifloxystrobin	100	ND
DDVP Dichlorvos	100	ND	Mevinphos	100	ND			



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**TERPENE SUMMARY** 

**TOTAL:** 1.734%

# **PRIMARY AROMAS**

Citrusy, Floral, Piney,

Sweet, Herbal, Woody

### **MOON – NORTHERN LIGHTS**

### TERPENES (GC FID)

ANALYTE	MASS (%)	MASS (mg/g)	LOQ (%)	ANALYTE	MASS (%)	MASS (mg/g)	LOQ (%)
Terpinolene	0.9220	9.220	0.005	γ-Terpinene	0.0073	0.0726	0.005
δ-Limonene	0.1748	1.748	0.005	Guaiol	<0.005	<0.05	0.005
$\alpha$ -Ocimene 1	0.1298	1.298	0.005	α-Bisabolol	<0.005	<0.05	0.005
β-Myrcene	0.1271	1.271	0.005	<i>p</i> -Cymene	<0.005	<0.05	0.005
$\beta$ -Caryophyllene	0.0959	0.9585	0.005	$\alpha$ -Terpinene	<0.005	<0.05	0.005
β-Pinene	0.0851	0.8507	0.005	Camphene	<0.005	<0.05	0.005
α-Pinene	0.0574	0.5744	0.005	Caryophyllene Oxide	ND	ND	0.005
Linalool	0.0481	0.4805	0.005	cis-Nerolidol 1	ND	ND	0.005
Eucalyptol	0.0438	0.4382	0.005	trans-Nerolidol 2	ND	ND	0.005
Geraniol	0.0194	0.1942	0.005	$\beta$ -Ocimene 2	ND	ND	0.005
3-Carene	0.0129	0.1291	0.005	Isopulegol	ND	ND	0.005
$\alpha$ -Humulene	0.0101	0.1006	0.005				

**RESULT CERTIFICATION** 





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