

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

9  
**ANALYTICAL**  
**Delta 9 Analytical**  
 Professional, Accurate, Responsive

**Laboratory Location**  
 6308 Angus Drive, Ste B  
 Raleigh NC 27617  
 919-673-7153 / 919-450-1870  
 frank@delta9analytical.com  
 michael@delta9analytical.com

Client Acct#: 157  
 Client Name: MHF Group, Inc  
 Client Address: 6 Winners Circle, Unit 3  
 Arden, NC 28704

Grower/Processor Lic: **NC HP579**  
 Received Date: 11232020  
 Reported Date: 12042020  
 Sample ID: **1241**

Sample Strain: **Northern Lights**  
 Sample Type: Flower  
 Sample Matrix: Hemp; Cured  
 Sample Size: 10.4g

**CANNABINOID SUMMARY**

**TOTAL CANNABINOIDS:**  
 12.42%  
**TOTAL CBD:** 10.16%  
**TOTAL THC:** 0.5689%  
**Δ9-THC:** 0.1516%

**BATCH PHOTO**



**TERPENE SUMMARY**

**TOTAL:** 0.9248%

**PRIMARY AROMAS**  
 Spicy, Woody, Citrusy,  
 Floral, Fresh, Fruity

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

ANALYTE	MASS (%)	MASS (mg/g)	LOQ (%)	ANALYTE	MASS (%)	MASS (mg/g)	LOQ (%)
Cannabinol (CBN)	ND	ND	0.05	Cannabidiolic Acid (CBDA)	9.8232	98.232	0.05
Δ8-THC	ND	ND	0.05	Δ9-THC Acid (THCA)	0.4759	4.759	0.05
Cannabichromene (CBC)	0.1221	1.221	0.05	THC-varian (THCV)	ND	ND	0.05
Cannabigerol (CBG)	0.0523	0.523	0.05	***Δ9-THC	0.1516	1.516	0.05
Cannabidiol (CBD)	1.5492	15.492	0.05	**TOTAL CANNABINOIDS	12.417	124.17	
Cannabigerolic Acid (CBGA)	0.2425	2.425	0.05	*TOTAL THC	0.5689	5.689	
Cannabidivarin (CBDV)	ND	ND	0.05	*TOTAL CBD	10.164	101.64	

**TERPENES** (GC FID)

\*Calculated as follows: Total CBD/G = CBD/GA% (0.877) + CBD/G%. Total THC = THCA% (0.877) + Δ9-THC %. \*\*Total Cannabinoids is the absolute sum of all cannabinoids detected. ND = Not Detected

ANALYTE	MASS (%)	MASS (mg/g)	LOQ (%)	ANALYTE	MASS (%)	MASS (mg/g)	LOQ (%)
β-Myrcene	0.4401	4.401	0.005	Terpinolene	<0.005	<0.05	0.005
δ-Limonene	0.0976	0.976	0.005	Guaiol	<0.005	<0.05	0.005
β-Caryophyllene	0.0917	0.917	0.005	Caryophyllene Oxide	ND	ND	0.005
cis-Nerolidol 1	0.0769	0.769	0.005	α-Ocimene 1	ND	ND	0.005
α-Pinene	0.0551	0.551	0.005	β-Ocimene 2	ND	ND	0.005
α-Bisabolol	0.0515	0.515	0.005	Isopulegol	ND	ND	0.005
trans-Nerolidol 2	0.0507	0.507	0.005	p-Cymene	ND	ND	0.005
α-Humulene	0.0266	0.266	0.005	3-Carene	ND	ND	0.005
Linalool	0.0108	0.108	0.005	α-Terpinene	ND	ND	0.005
β-Pinene	<0.005	<0.05	0.005	Geraniol	ND	ND	0.005
Eucalyptol	<0.005	<0.05	0.005	γ-Terpinene	ND	ND	0.005
Camphene	<0.005	<0.05	0.005				

**RESULT CERTIFICATION**

 12042020  
 Frank P. Mauro COO/Michael R. Horton CSO & Date



Scan QR Code to verify COA at [www.delta9analytical.com](http://www.delta9analytical.com)

Testing results are based solely upon the sample submitted to Delta 9 Analytical, LLC. (D9A) In the condition it was received. D9A warrants that all analytical work is conducted professionally in accordance with all applicable standard practices using validated methods utilizing certified reference standards. \*\*\*The uncertainty of measurement associated with the measurement result reported in this certificate is available from D9A upon request. This report may not be reproduced, except in full, without the written approval of D9A. Heavy Metals testing performed by Sativa Testing Labs (Powhatan, VA). Pesticide, Mycotoxin and Microbial Testing performed by SJ Labs & Analytics (Macon, GA).

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**PESTICIDES** (48 pesticides by Liquid Chromatography Mass Spectrometry – LCMS; ND = Not Detected)

ANALYTE	LOQ (PPB)	MASS (PPB)	ANALYTE	LOQ (PPB)	MASS (PPB)	ANALYTE	LOQ (PPB)	MASS (PPB)
Acephate	100	ND	Dimethomorph	100	ND	Permethrin	100	ND
Acequinocyl	100	ND	Ethoprophos	100	ND	Phosmet	100	ND
Acetamiprid	100	ND	Etofenprox	100	ND	Piperonyl butoxide	100	ND
Aldicarb	100	ND	Etoazole	100	ND	Prallethrin	100	ND
Abamectin B1a	100	ND	Fenhexamid	100	ND	Propiconazole	100	ND
Azoxystrobin	100	ND	Fenoxycarb	100	ND	Propoxur	100	ND
Bifenazate (D 2341)	100	ND	Fenpyroximate	100	ND	Pyrethrin I	100	ND
Bifenthrin	100	ND	Flonicamid	100	ND	Pyrethrin II	100	ND
Boscalid (Nicobifen)	100	ND	Hexythiazox	100	ND	Pyridaben	100	ND
Carbaryl	100	ND	Imazalil	100	ND	Spinetoram J	100	ND
Carbofuran	100	ND	Imidacloprid	100	ND	Spinetoram L	100	ND
Chlorantranilprole	100	ND	Kresoxim methyl	100	ND	Spinosyn A	100	ND
Chlorpyrifos	100	ND	Malathion	100	ND	Spinosyn D	100	ND
Clofentezin	100	ND	Metaxyl	100	143	Spiromesifen	100	ND
Coumaphos	100	ND	Methiocarb	100	ND	Spirotetramat	100	ND
Cyfluthrin	100	ND	Methomyl	100	ND	Spiroxamine	100	ND
Cypermethrin	100	ND	Mevinphos	100	ND	Tebuconazole	100	ND
Daminozide	100	ND	Myclobutanil	100	ND	Thiacloprid	100	ND
Diazinon (Dimpylate)	100	ND	Oxamyl	100	ND	Thiamethoxam	100	ND
Dichlorvos	100	ND	Paclbutrazol	100	ND	Trifloxystrobin	100	ND
Dimethoate	100	ND						

**HEAVY METALS**

Analyte	Mass (PPM)	LOQ/LIMIT (PPM)
Arsenic	ND	2.5/10
Cadmium	ND	2.5/4
Lead	ND	2.5/10
Mercury	ND	0.5/2

**Method:** ICP-MS **ND = Not Detected**

**MICROBIALS**

Organism	Results (CFU)
Aspergillus fumigatus	PASS
Aspergillus terreus	PASS
Aspergillus niger	PASS
Aspergillus flavus	PASS
TOTAL Entero bacteriaceae	PASS
E. Coli	PASS

**Method:** DRBC agar, Total Aerobic Dip slide; Total Enterobacteriaceae & E. coli Petrifilm

**MYCOTOXINS**

Toxin	LOQ PPM	Units PPM
Aflatoxin B1	20.00	ND
Aflatoxin B2	20.00	ND
Aflatoxin G1	20.00	ND
Aflatoxin G2	20.00	ND
TOTAL Aflatoxins	20.00	ND
Ochratoxin A	20.00	ND

**Method:** LCMS **ND = Not Detected**

**RESULT CERTIFICATION** 12042020

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




Michael Horton Frank Mauro



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