

**SAMPLE DETAILS**
**SAMPLE NAME: Face On Fire**

Flower, Inhalable

**CULTIVATOR / MANUFACTURER**
**Business Name:**
**License Number:**
**Address:**
**DISTRIBUTOR / TESTED FOR**
**Business Name:** MN River Holdings LLC

**License Number:**
**Address:**
**SAMPLE DETAIL**
**Batch Number:** 11-04-FOF

**Sample ID:** 250407Q028

**Date Collected:** 04/07/2025

**Date Received:** 04/07/2025

**Batch Size:**
**Sample Size:** 1.0 grams

**Unit Mass:**
**Serving Size:**


Scan QR code to verify authenticity of results.

**CANNABINOID ANALYSIS - SUMMARY**

CALCULATED USING DRY-WEIGHT

**Total THC: 23.57%**
**Total CBD: 0.082%**
**Sum of Cannabinoids: 27.68%**
**Total Cannabinoids: 24.43%**

Total THC/CBD is calculated using the following formulas to take into account the loss of a carboxyl group during the decarboxylation step:

 Total THC =  $\Delta^9$ -THC + (THCa (0.877))

Total CBD = CBD + (CBDa (0.877))

 Sum of Cannabinoids =  $\Delta^9$ -THC + THCa + CBD + CBDa + CBG + CBGa +

 THCV + THCVa + CBC + CBCa + CBDV + CBDVa +  $\Delta^8$ -THC + CBL + CBN

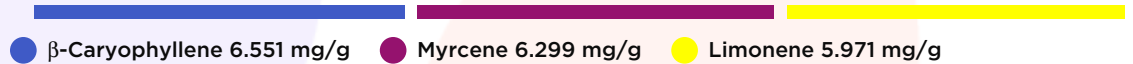
 Total Cannabinoids = ( $\Delta^9$ -THC+0.877\*THCa) + (CBD+0.877\*CBDa) +

(CBG+0.877\*CBGa) + (THCV+0.877\*THCVa) + (CBC+0.877\*CBCa) +

 (CBDV+0.877\*CBDVa) +  $\Delta^8$ -THC + CBL + CBN

**Moisture: 10.8%**
**TERPENOID ANALYSIS - SUMMARY**

39 TESTED, TOP 3 HIGHLIGHTED


**Total Terpenoids: 2.9567%**

**SAFETY ANALYSIS - SUMMARY**
**Pesticides:** ✔ PASS
**Mycotoxins:** ✔ PASS
**Heavy Metals:** ✔ PASS
**Microbiology (PCR):** ✔ PASS
**Microbiology (Plating):** DETECTED Foreign Material: ✔ PASS
**Water Activity:** ✔ PASS

For quality assurance purposes. Not a Regulatory Hemp Lab Test Report. These results relate only to the sample included on this report. This report shall not be reproduced, except in full, without written approval of the laboratory.


**Sample Certification:** California Code of Regulations Title 4 Division 19. Department of Cannabis Control Business and Professions Code. Reference: Sections 26100, 26104 and 26110, Business and Professions Code.

**Decision Rule:** Statements of conformity (e.g. Pass/Fail) to specifications are made in this report without taking measurement uncertainty into account. Where statements of conformity are made in this report, the following decision rules are applied: PASS - Results within limits/specifications, FAIL - Results exceed limits/specifications.

**References:** limit of detection (LOD), limit of quantification (LOQ), not detected (ND), not tested (NT),  $\mu\text{g/g}$  = ppm,  $\mu\text{g/kg}$  = ppb, too numerous to count >250 cfu/plate (TNTC), colony-forming unit (cfu)



LQC verified by: Josh Antunovich  
 Job Title: Laboratory Director  
 Date: 04/14/2025



Approved by: Josh Wurzer  
 Job Title: Chief Compliance Officer  
 Date: 04/14/2025

Amendment to Certificate of Analysis 250407Q028-001



## Cannabinoid Analysis

Tested by high-performance liquid chromatography with diode-array detection (HPLC-DAD). Calculated using Dry-Weight.

**Method:** QSP 1157 - Analysis of Cannabinoids by HPLC-DAD

### TOTAL THC: 23.57%

Total THC ( $\Delta^9$ -THC+0.877\*THCa)

### TOTAL CBD: 0.082%

Total CBD (CBD+0.877\*CBDa)

### TOTAL CANNABINOIDS: 24.43%

Total Cannabinoids (Total THC) + (Total CBD) + (Total CBG) + (Total THCV) + (Total CBC) + (Total CBDV) +  $\Delta^8$ -THC + CBL + CBN

### TOTAL CBG: 0.48%

Total CBG (CBG+0.877\*CBGa)

### TOTAL THCV: 0.136%

Total THCV (THCV+0.877\*THCVa)

### TOTAL CBC: 0.17%

Total CBC (CBC+0.877\*CBCa)

### TOTAL CBDV: ND

Total CBDV (CBDV+0.877\*CBDVa)

## CANNABINOID TEST RESULTS - 04/10/2025

COMPOUND	LOD/LOQ (mg/g)	MEASUREMENT UNCERTAINTY (mg/g)	RESULT (mg/g)	RESULT (%)
THCa	0.04 / 0.24	±8.181	254.87	25.487
$\Delta^9$ -THC	0.1 / 0.4	±0.37	12.2	1.22
CBGa	0.1 / 0.4	±0.24	4.4	0.44
CBCa	0.1 / 0.4	±0.13	1.9	0.19
THCVa	0.05 / 0.17	±0.036	1.55	0.155
CBDa	0.06 / 0.22	±0.031	0.94	0.094
CBG	0.2 / 0.5	±0.06	0.9	0.09
$\Delta^8$ -THC	0.05 / 0.50	N/A	ND	ND
THCV	0.07 / 0.21	N/A	ND	ND
CBD	0.1 / 0.3	N/A	ND	ND
CBDV	0.1 / 0.3	N/A	ND	ND
CBDVa	0.02 / 0.22	N/A	ND	ND
CBL	0.1 / 0.4	N/A	ND	ND
CBN	0.07 / 0.20	N/A	ND	ND
CBC	0.1 / 0.2	N/A	ND	ND
<b>SUM OF CANNABINOIDS</b>			<b>276.8 mg/g</b>	<b>27.68%</b>

## MOISTURE TEST RESULT

**10.8%**

Tested 04/12/2025

**Method:** QSP 1224 - Loss on Drying (Moisture)

## Terpenoid Analysis

Terpene analysis utilizing gas chromatography-flame ionization detection (GC-FID).

**Method:** QSP 1192 - Analysis of Terpenoids by GC-FID

## TERPENOID TEST RESULTS - 04/10/2025

COMPOUND	LOD/LOQ (mg/g)	MEASUREMENT UNCERTAINTY (mg/g)	RESULT (mg/g)	RESULT (%)
$\beta$ -Caryophyllene	0.004 / 0.013	±0.3524	6.551	0.6551
Myrcene	0.007 / 0.025	±0.2230	6.299	0.6299
Limonene	0.005 / 0.016	±0.1947	5.971	0.5971
Linalool	0.009 / 0.036	±0.0961	2.446	0.2446
$\alpha$ -Humulene	0.009 / 0.180	±0.1117	2.077	0.2077
$\alpha$ -Bisabolol	0.008 / 0.026	±0.0664	1.545	0.1545
Terpineol	0.008 / 0.025	±0.0554	0.905	0.0905
$\beta$ -Pinene	0.004 / 0.015	±0.0283	0.877	0.0877
Fenchol	0.009 / 0.036	±0.0304	0.825	0.0825
$\alpha$ -Pinene	0.005 / 0.036	±0.0151	0.423	0.0423

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## Terpenoid Analysis *Continued*

### TERPENOID TEST RESULTS - 04/10/2025 *continued*

#### 1 $\beta$ -Caryophyllene

A sesquiterpene with a fragrance that can be described as spicy, woody, dry, dusty and mildly sweet. It was one of the first organic compounds to fully synthesized in a laboratory and plays a role in the endocannabinoid system as it is a functional CB<sub>2</sub> receptor agonist. Found in black pepper, clove, hops, rosemary, black-jack, perilla, spicebush, Indian pennywort, celery, frankincense, vitex, parsley, marigold, tamarind...etc.

#### 2 Myrcene

A monoterpene with a fragrance that can be described as peppery, spicy, herbal, floral and woody. Although it has a pleasant odor, it is typically used by the perfume industry as precursor for developing other fragrances. Found in hops, houttuynia, bay, thyme, lemon grass, mango, verbena, cardamom, citrus...etc.

#### 3 Limonene

A monoterpene with a fragrance that can be described as orangey, citrusy, sweet and tart. It is most commonly found in nature as D-Limonene and is a primary contributor to the distinct scent of orange peels, from which it is commonly derived. Found in numerous pines, red maple, silver maple, aspens, cottonwoods, hemlocks, sumac, cedar, junipers...etc.

COMPOUND	LOD/LOQ (mg/g)	MEASUREMENT UNCERTAINTY (mg/g)	RESULT (mg/g)	RESULT (%)
Valencene	0.010 / 0.180	±0.0172	0.334	0.0334
Borneol	0.004 / 0.014	±0.0126	0.270	0.0270
Pulegone	0.003 / 0.010	±0.0122	0.184	0.0184
Geraniol	0.002 / 0.036	±0.0086	0.166	0.0166
Camphene	0.004 / 0.014	±0.0046	0.141	0.0141
Caryophyllene Oxide	0.011 / 0.038	±0.0071	0.120	0.0120
Nerolidol	0.006 / 0.021	±0.0081	0.103	0.0103
trans- $\beta$ -Farnesene	0.008 / 0.028	±0.0052	0.091	0.0091
Terpinolene	0.008 / 0.036	±0.0013	0.088	0.0088
Guaiol	0.011 / 0.035	±0.0038	0.070	0.0070
Fenchone	0.008 / 0.036	±0.0020	0.053	0.0053
$\beta$ -Ocimene	0.005 / 0.025	±0.0011	0.028	0.0028
$\alpha$ -Terpinene	0.006 / 0.019	N/A	<LOQ	<LOQ
Citronellol	0.003 / 0.036	N/A	<LOQ	<LOQ
Eucalyptol	0.005 / 0.018	N/A	<LOQ	<LOQ
$\gamma$ -Terpinene	0.005 / 0.018	N/A	<LOQ	<LOQ
Isoborneol	0.003 / 0.011	N/A	<LOQ	<LOQ
Nerol	0.003 / 0.036	N/A	<LOQ	<LOQ
Sabinene Hydrate	0.007 / 0.036	N/A	<LOQ	<LOQ
$\alpha$ -Cedrene	0.005 / 0.017	N/A	ND	ND
$\alpha$ -Phellandrene	0.006 / 0.036	N/A	ND	ND
Camphor	0.005 / 0.036	N/A	ND	ND
Cedrol	0.009 / 0.032	N/A	ND	ND
$\Delta^3$ -Carene	0.005 / 0.018	N/A	ND	ND
Geranyl Acetate	0.004 / 0.036	N/A	ND	ND
Isopulegol	0.004 / 0.036	N/A	ND	ND
Menthol	0.008 / 0.025	N/A	ND	ND
p-Cymene	0.005 / 0.015	N/A	ND	ND
Sabinene	0.004 / 0.014	N/A	ND	ND
<b>TOTAL TERPENOIDS</b>			<b>29.567 mg/g</b>	<b>2.9567%</b>



## Pesticide Analysis

### PESTICIDE TEST RESULTS - 04/13/2025 ✔ PASS

Pesticide and plant growth regulator analysis utilizing high-performance liquid chromatography-mass spectrometry (HPLC-MS) or gas chromatography-mass spectrometry (GC-MS).

\*GC-MS utilized where indicated.

COMPOUND	LOD/LOQ ( $\mu$ g/g)	ACTION LIMIT ( $\mu$ g/g)	MEASUREMENT UNCERTAINTY ( $\mu$ g/g)	RESULT ( $\mu$ g/g)	RESULT
Abamectin	0.03 / 0.10	0.1	N/A	ND	PASS
Azoxystrobin	0.02 / 0.07	0.1	N/A	ND	PASS
Bifenazate	0.01 / 0.04	0.1	N/A	ND	PASS
Bifenthrin	0.02 / 0.05	3	N/A	ND	PASS
Boscalid	0.03 / 0.09	0.1	N/A	ND	PASS
Chlorpyrifos	0.02 / 0.06	≥ LOD	N/A	ND	PASS

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### Pesticide Analysis *Continued*

PESTICIDE TEST RESULTS - 04/13/2025 *continued* ✔ PASS

COMPOUND	LOD/LOQ (µg/g)	ACTION LIMIT (µg/g)	MEASUREMENT UNCERTAINTY (µg/g)	RESULT (µg/g)	RESULT
Cypermethrin	0.11 / 0.32	1	N/A	ND	PASS
Etoxazole	0.02 / 0.06	0.1	N/A	ND	PASS
Hexythiazox	0.02 / 0.07	0.1	N/A	ND	PASS
Imidacloprid	0.04 / 0.11	5	N/A	ND	PASS
Malathion	0.03 / 0.09	0.5	N/A	ND	PASS
Myclobutanil	0.03 / 0.09	0.1	N/A	ND	PASS
Permethrin	0.04 / 0.12	0.5	N/A	ND	PASS
Piperonyl Butoxide	0.02 / 0.07	3	N/A	ND	PASS
Propiconazole	0.02 / 0.07	0.1	N/A	ND	PASS
Spiromesifen	0.02 / 0.05	0.1	N/A	ND	PASS
Tebuconazole	0.02 / 0.07	0.1	N/A	ND	PASS
Trifloxystrobin	0.03 / 0.08	0.1	N/A	ND	PASS



### Mycotoxin Analysis

MYCOTOXIN TEST RESULTS - 04/13/2025 ✔ PASS

Mycotoxin analysis utilizing high-performance liquid chromatography-mass spectrometry (HPLC-MS).

**Method:** QSP 1212 - Analysis of Pesticides and Mycotoxins by LC-MS

COMPOUND	LOD/LOQ (µg/kg)	ACTION LIMIT (µg/kg)	MEASUREMENT UNCERTAINTY (µg/kg)	RESULT (µg/kg)	RESULT
Aflatoxin B1	2.0 / 6.0		N/A	ND	
Aflatoxin B2	1.8 / 5.6		N/A	ND	
Aflatoxin G1	1.0 / 3.1		N/A	ND	
Aflatoxin G2	1.2 / 3.5		N/A	ND	
Ochratoxin A	6.3 / 19.2	20	N/A	ND	PASS
Total Aflatoxin		20		ND	PASS



### Heavy Metals Analysis

HEAVY METALS TEST RESULTS - 04/10/2025 ✔ PASS

Heavy metal analysis utilizing inductively coupled plasma-mass spectrometry (ICP-MS).

**Method:** QSP 1160 - Analysis of Heavy Metals by ICP-MS

COMPOUND	LOD/LOQ (µg/g)	ACTION LIMIT (µg/g)	MEASUREMENT UNCERTAINTY (µg/g)	RESULT (µg/g)	RESULT
Arsenic	0.02 / 0.1	0.2	±0.01	0.2	PASS
Cadmium	0.02 / 0.05	0.2	N/A	<LOQ	PASS
Lead	0.04 / 0.1	0.5	N/A	ND	PASS
Mercury	0.002 / 0.01	0.1	N/A	ND	PASS



## Microbiology Analysis

### PCR AND PLATING

Analysis conducted by polymerase chain reaction (PCR) and fluorescence detection of microbiological contaminants.

**Method:** QSP 1221 - Analysis of Microbiological Contaminants

### MICROBIOLOGY TEST RESULTS (PCR) - 04/14/2025 ✔ PASS

COMPOUND	ACTION LIMIT (cfu/g)	RESULT (cfu/g)	RESULT
Bile-Tolerant Gram-Negative Bacteria		5618.0	
<i>Salmonella</i> spp.	Not Detected in 1g	ND	PASS
Shiga toxin-producing <i>Escherichia coli</i>	Not Detected in 1g	ND	PASS
<i>Staphylococcus aureus</i>		ND	

Analysis conducted by 3M™ Petrifilm™ and plate counts of microbiological contaminants.

**Method:** QSP 6794 - Plating with 3M™ Petrifilm™

### MICROBIOLOGY TEST RESULTS (PLATING) - 04/14/2025 DETECTED

COMPOUND	RESULT (cfu/g)
Total Aerobic Bacteria	83000.0
Total Yeast and Mold	ND



## Foreign Material Analysis

Visual analysis includes, but is not limited to, sand, soil, cinders, dirt, mold, hair, insect fragments, and mammalian excreta.

**Method:** QSP 1226 - Analysis of Foreign Material in Cannabis and Cannabis Products

### FOREIGN MATERIAL TEST RESULTS - 04/08/2025 ✔ PASS

COMPOUND	ACTION LIMIT	RESULT (per 3 Grams)	RESULT
Hair Count	> 1 per 3 grams	0.0	PASS
Insect Fragment Count	> 1 per 3 grams	0.0	PASS
Mammalian Excreta Count	> 1 per 3 grams	0.0	PASS
Total Sample Area Covered by an Imbedded Foreign Material	>25%	None	PASS
Total Sample Area Covered by Mold	>25%	None	PASS
Total Sample Area Covered by Sand, Soil, Cinders, or Dirt	>25%	None	PASS



## Water Activity Analysis

**Method:** QSP 1227 - Analysis of Water Activity in Cannabis and Cannabis Products

### WATER ACTIVITY TEST RESULTS - 04/12/2025 ✔ PASS

COMPOUND	LOD/LOQ (Aw)	ACTION LIMIT (Aw)	MEASUREMENT UNCERTAINTY (Aw)	RESULT (Aw)	RESULT
Water Activity	0.030 / 0.15	0.65	±0.003	0.43	PASS

### NOTES

Reason for Amendment: Result Change