

790 Main St

Wareham, MA 02571 License #: IL281355

Phone: 508-295-2550



Customer: Trade Roots

Address:

6 Thatcher Lane Wareham MA 02571

Phone: 774-326-0077

License #: MP281436 & MC281262



Sample ID: 15109

Sample Name: M00002096701: NF1-Bulk

Flower

Sample Strain: NF1 Sample Type: Flower **Received Date: 07/12/2024** Report Date: 07/17/2024

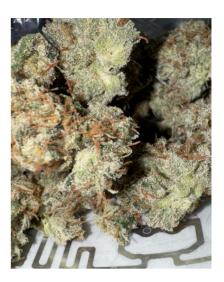
METRC ID: 1A40A0300006BD1000005478

METRC Source ID:

1A40A0300006BD1000004807 Client Batch ID: NF1-070124-F3-B1

Client Sample Size: 6 g

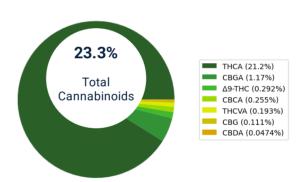
Certificate of Analysis



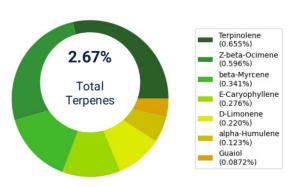
Results Summary

TESTED
TESTED
PASS
PASS
PASS
FASS

Cannabinoid Distribution (%)



Terpene Distribution (%)



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Certificate of Analysis

Cannabinoids

Date Started: 07/12/2024 Date Completed: 07/15/2024 Analyst: Yuemin Wang Kovaleff

Instrument: UPLC-PDA Method: TP-09.001.05 & TP-09.012.05 Deviation: N/A

Cannabinoid	Result (%)	Result (mg/g)	LOD (%)	LOQ (%)
THCA	21.2	212	0.102	0.635
CBGA	1.17	11.7	0.00249	0.0317
Δ9-ΤΗС	0.292	2.92	0.0117	0.0635
CBCA	0.255	2.55	0.00818	0.0254
THCVA	0.193	1.93	0.00270	0.0254
CBG	0.111	1.11	0.00276	0.0317
CBDA	<loq< td=""><td><loq< td=""><td>0.00400</td><td>0.0635</td></loq<></td></loq<>	<loq< td=""><td>0.00400</td><td>0.0635</td></loq<>	0.00400	0.0635
CBDVA	ND	ND	0.00427	0.0254
CBDV	ND	ND	0.0121	0.0254
CBD	ND	ND	0.00492	0.0635
Δ9-THCV	ND	ND	0.00342	0.0254
Δ8-THCV	ND	ND	0.00620	0.0254
CBN	ND	ND	0.00435	0.0317
CBNA	ND	ND	0.00335	0.0254
Exo-THC	ND	ND	0.00508	0.0254
Δ8-ΤΗС	ND	ND	0.0111	0.0317
CBL	ND	ND	0.00752	0.0254
CBC	ND	ND	0.00301	0.0254
Total THC	18.9	189		
Total CBD	<loq< td=""><td><loq< td=""><td></td><td></td></loq<></td></loq<>	<loq< td=""><td></td><td></td></loq<>		
Total Cannabinoids	23.3	233		

Total THC = Δ 9-THC + (THCA x 0.877) Total CBD = CBD + (CBDA x 0.877)

Total Cannabinoids = Sum of all cannabinoids without THC/CBD corrections.

Report Number: 15109.V1

LOD = Limit of Detection; **LOQ** = Limit of Quantitation; **ND** = Not Detected.

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Page 2 of 4





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Certificate of Analysis

Terpenes Extended

Date Started: 07/12/2024 **Date Completed: 07/15/2024** Analyst: Yuemin Wang Kovaleff Instrument: GC-MS

Method: TP-09.004.03 Deviation: N/A

Terpene	Result (%)	Result (mg/g)	LOD (%)	LOQ (%)
Terpinolene	0.655	6.55	0.000792	0.00635
Z-beta-Ocimene	0.596	5.96	0.00257	0.00635
beta-Myrcene	0.341	3.41	0.00107	0.00635
E-Caryophyllene	0.276	2.76	0.00279	0.00635
D-Limonene	0.220	2.20	0.00134	0.00635
alpha-Humulene	0.123	1.23	0.00137	0.00635
Guaiol	0.0872	0.872	0.00138	0.00635
beta-Pinene	0.0597	0.597	0.00132	0.00635
alpha-Phellandrene	0.0569	0.569	0.000990	0.00635
alpha-Pinene	0.0524	0.524	0.000533	0.00635
Linalool	0.0407	0.407	0.00193	0.00635
alpha-Terpineol	0.0376	0.376	0.00240	0.00635
delta-3-Carene	0.0227	0.227	0.00207	0.00635
Endo-Fenchyl Alcohol	0.0206	0.206	0.00211	0.00635
alpha-Terpinene	0.0206	0.206	0.00195	0.00635
gamma-Terpinene	0.0117	0.117	0.00144	0.00635
[+/-]-Borneol	<loq< td=""><td><loq< td=""><td>0.00245</td><td>0.0127</td></loq<></td></loq<>	<loq< td=""><td>0.00245</td><td>0.0127</td></loq<>	0.00245	0.0127
Cedrol	0.00857	0.0857	0.00259	0.00635
Carophyllene Oxide	0.00752	0.0752	0.00144	0.00635
Camphene	<loq< td=""><td><loq< td=""><td>0.000701</td><td>0.00635</td></loq<></td></loq<>	<loq< td=""><td>0.000701</td><td>0.00635</td></loq<>	0.000701	0.00635
Nerol	<loq< td=""><td><loq< td=""><td>0.00200</td><td>0.00635</td></loq<></td></loq<>	<loq< td=""><td>0.00200</td><td>0.00635</td></loq<>	0.00200	0.00635
Sabinene Hydrate	<loq< td=""><td><loq< td=""><td>0.00212</td><td>0.00635</td></loq<></td></loq<>	<loq< td=""><td>0.00212</td><td>0.00635</td></loq<>	0.00212	0.00635
Geraniol	<loq< td=""><td><loq< td=""><td>0.00198</td><td>0.00635</td></loq<></td></loq<>	<loq< td=""><td>0.00198</td><td>0.00635</td></loq<>	0.00198	0.00635
Eucalyptol	<loq< td=""><td><loq< td=""><td>0.00192</td><td>0.00635</td></loq<></td></loq<>	<loq< td=""><td>0.00192</td><td>0.00635</td></loq<>	0.00192	0.00635
[+/-]-Fenchone	ND	ND	0.00141	0.0127
E-beta-Ocimene	ND	ND	0.00263	0.00635
gamma-Terpineol	ND	ND	0.00114	0.00635
Isopulegol	ND	ND	0.00308	0.00635
Pulegone	ND	ND	0.00241	0.00635
Valencene	ND	ND	0.00168	0.00635
Z-Nerolidol	ND	ND	0.00172	0.00635
E-Nerolidol	ND	ND	0.00145	0.00635
alpha-Bisabolol	ND	ND	0.00235	0.00635
Sabinene	ND	ND	0.00216	0.00635
Isoborneol	ND	ND	0.00136	0.00635
Menthol	ND	ND	0.00212	0.00635
alpha-Cedrene	ND	ND	0.00192	0.00635
Geranyl Acetate	ND	ND	0.00298	0.00635
[+,N,-]-Camphor	ND	ND	0.00469	0.0190
Total Terpenes	2.67	26.7		

Heavy Metals



Date Started: 07/14/2024 **Date Completed: 07/15/2024** Analyst: Eric Steele **Instrument: ICP-MS** Method: TP-09.007.01 Deviation: N/A

Heavy Metals	Result (ppb)	LOD (ppb)	LOQ (ppb)	Limit (ppb)	Status
Arsenic	<l0q< th=""><th>7.23</th><th>48.9</th><th>200</th><th>Pass</th></l0q<>	7.23	48.9	200	Pass
Cadmium	ND	4.34	48.9	200	Pass
Lead	<loq< th=""><th>3.99</th><th>48.9</th><th>500</th><th>Pass</th></loq<>	3.99	48.9	500	Pass
Mercury	ND	3.48	24.4	100	Pass

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Microbial Impurities



PASS

Date Started: 07/12/2024Date Completed: 07/16/2024Analyst: Garrett LaneInstrument: TEMPO & Gene-UpMethod: TP-09.010.01 & TP-09.011.01Deviation: N/A

Microbials	Result (CFU/g)	Limit (CFU/g)	Status	
Coliforms	ND	1000	Pass	
Bile-Tolerant Gram-Negative Bacteria	ND	1000	Pass	
Yeast & Mold	830	10000	Pass	
Aerobic Bacteria	ND	100000	Pass	
E.coli	ND		Pass	
Salmonella	ND		Pass	

Pesticides and Mycotoxins



PASS

 Date Started: 07/15/2024
 Date Completed: 07/17/2024
 Analyst: Lana Rivera

 Instrument: LC-MS/MS & GC-MS/MS
 Method: TP-09.008.02 & TP-09.009.04
 Deviation: N/A

Analyte	Result (ppb)	LOD (ppb)	LOQ (ppb)	Limit (ppb)	Status
Bifenazate	ND	0.664	4.01	10.0	Pass
Bifenthrin	ND	1.41	4.01	10.0	Pass
Cyfluthrin	ND	0.533	3.35	10.0	Pass
Etoxazole	ND	0.974	4.01	10.0	Pass
Imazalil	ND	1.00	4.01	10.0	Pass
Imidacloprid	ND	0.468	4.01	10.0	Pass
Myclobutanil	ND	1.10	4.01	10.0	Pass
Spiromesifen	ND	1.17	4.01	10.0	Pass
Trifloxystrobin	ND	0.618	4.01	10.0	Pass
Aflatoxin B1	ND	2.18	5.35		
Aflatoxin B2	ND	0.431	4.01		
Aflatoxin G1	ND	0.447	4.01		
Aflatoxin G2	ND	1.13	5.35		
Ochratoxin A	ND	1.24	4.01		
Total Mycotoxins	ND	0.431	4.01	20.0	Pass

Eric Steele, Lab Director 07/17/2024

END OF REPORT

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