



Smithers AMS LLC
 790 Main St
 Wareham, MA 02571
 License #: IL281355
 Phone: 508-295-2550

Certificate of Analysis



Customer: Bay State Extracts

Address:
 3065 Cranberry Highway
 East Wareham MA 02538

Phone: 800-847-4427

License #: MDAR 25200133P

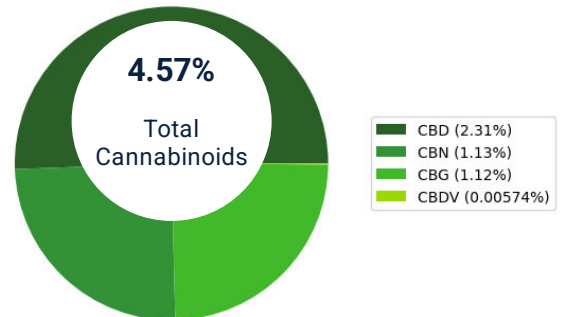


Sample ID: 7935
Sample Name: Trifecta Relax 1200mg Oil Drops
Sample Type: Tincture
Received Date: 10/17/2023
Report Date: 10/21/2023
METRC ID: N/A
Client Batch ID: TRT23010
Client Sample Size: 28 g
Unit Weight (g): 0.9

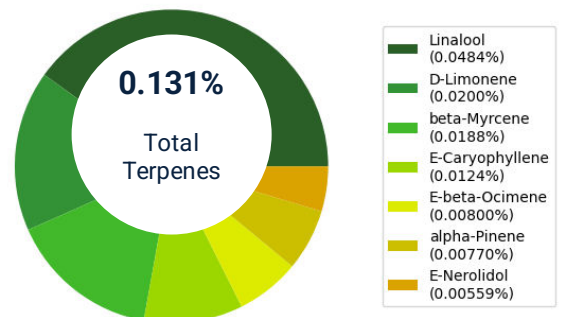
Results Summary

Cannabinoids 10/19/2023	TESTED
Terpenes 10/19/2023	TESTED
Heavy Metals 10/21/2023	✓ PASS
Microbial Impurities 10/21/2023	✓ PASS
Residual Solvents 10/21/2023	✓ PASS
Mycotoxins 10/19/2023	✓ PASS

Cannabinoid Distribution (%)



Terpene Distribution (%)



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Cannabinoids

Date Started: 10/18/2023
Instrument: UPLC-PDA

Date Completed: 10/19/2023
Method: TP-09.001.05 & TP-09.012.05

Analyst: Yuemin Wang Kovaleff
Deviation: N/A

Cannabinoid	Result (%)	Result (mg/serving)	Result (mg/package)	LOQ (mg/serving)
CBD	2.31	20.8	624	0.0392
CBN	1.13	10.2	306	0.0196
CBG	1.12	10.1	302	0.0196
CBDV	0.00574	0.0517	1.55	0.00197
CBDVA	ND	ND	ND	0.00197
CBDA	ND	ND	ND	0.00492
CBGA	ND	ND	ND	0.00246
Δ9-THCV	ND	ND	ND	0.00197
Δ8-THCV	ND	ND	ND	0.00197
THCVA	ND	ND	ND	0.00197
CBNA	ND	ND	ND	0.00197
Exo-THC	ND	ND	ND	0.00197
Δ9-THC	ND	ND	ND	0.00492
Δ8-THC	ND	ND	ND	0.00246
CBL	ND	ND	ND	0.00197
THCA-A	ND	ND	ND	0.00492
CBC	ND	ND	ND	0.00197
CBCA	ND	ND	ND	0.00197
Total THC	ND	ND	ND	
Total CBD	2.31	20.8	624	
Total Cannabinoids	4.57	41.1	1234	

Total THC = Δ9-THC + Δ8-THC + (THCA-A x 0.877)

Total CBD = CBD + (CBDA x 0.877)

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

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



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Terpenes

Date Started: 10/18/2023
Instrument: GC-MS

Date Completed: 10/19/2023
Method: TP-09.004.03

Analyst: Yuemin Wang Kovaleff
Deviation: N/A

Terpene	Result (ppm)	Result (mg/g)	Result (%)	LOQ (ppm)
Linalool	49.2	0.484	0.0484	0.00123
D-Limonene	20.3	0.200	0.0200	0.00123
beta-Myrcene	19.1	0.188	0.0188	0.00123
E-Caryophyllene	12.6	0.124	0.0124	0.00123
E-beta-Ocimene	8.12	0.0800	0.00800	0.00123
alpha-Pinene	7.82	0.0770	0.00770	0.00123
E-Nerolidol	5.68	0.0559	0.00559	0.00123
beta-Pinene	3.60	0.0355	0.00355	0.00123
Carophyllene Oxide	2.28	0.0225	0.00225	0.00123
alpha-Humulol	1.54	0.0152	0.00152	0.00123
alpha-Bisabolol	1.48	0.0146	0.00146	0.00123
Z-beta-Ocimene	0.776	0.00764	0.000764	0.00123
delta-3-Carene	0.395	0.00389	0.000389	0.00123
Camphene	ND	ND	ND	0.00123
Isopulegol	ND	ND	ND	0.00123
Geraniol	ND	ND	ND	0.00123
Z-Nerolidol	ND	ND	ND	0.00123
Guaiol	ND	ND	ND	0.00123
Eucalyptol	ND	ND	ND	0.00123
alpha-Terpinene	ND	ND	ND	0.00123
gamma-Terpinene	ND	ND	ND	0.00123
Terpinolene	ND	ND	ND	0.00123
Total Terpenes	133	1.31	0.131	

Heavy Metals

✓ PASS

Date Started: 10/20/2023
Instrument: ICP-MS

Date Completed: 10/21/2023
Method: TP-09.007.01

Analyst: Meagan Mattos
Deviation: N/A

Heavy Metals	LOQ (ppb)	Limit (ppb)	Status
Arsenic	52.7	200	Pass
Cadmium	52.7	200	Pass
Lead	52.7	500	Pass
Mercury	26.3	100	Pass

Microbial Impurities

✓ PASS

Date Started: 10/17/2023
Instrument: TEMPO & Gene-Up

Date Completed: 10/21/2023
Method: TP-09.010.01 & TP-09.011.01

Analyst: Lana Rivera
Deviation: N/A

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

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Residual Solvents

PASS

Date Started: 10/19/2023
Instrument: HS-GC-MS

Date Completed: 10/21/2023
Method: TP-09.005.03

Analyst: Yuemin Wang Kovaleff
Deviation: N/A

Residual Solvent	LOQ (ppm)	Limit (ppm)	Status
n-Propane	1.42	12.0	Pass
Iso-butane	1.42	12.0	Pass
n-Butane	1.42	12.0	Pass
Methanol	85.7	3000	Pass
Ethylene Oxide	0.571		Pass
n-Pentane	85.7	5000	Pass
Ethanol	85.7	5000	Pass
Ethyl Ether	85.7	5000	Pass
Acetone	85.7	5000	Pass
Isopropyl Alcohol	85.7	5000	Pass
Acetonitrile	85.7	410	Pass
Methylene Chloride	0.571	600	Pass
n-Hexane	85.7	290	Pass
Ethyl Acetate	85.7	5000	Pass
Chloroform	0.571	60.0	Pass
1,2-Dichloroethane	0.571	1870	Pass
Benzene	0.571		Pass
n-Heptane	85.7	5000	Pass
Trichloroethylene	0.571	80.0	Pass
Toluene	85.7	890	Pass
Total Xylenes	42.8	2170	Pass

Mycotoxins

PASS

Date Started: 10/18/2023
Instrument: LC-MS/MS

Date Completed: 10/19/2023
Method: TP-09.009.04

Analyst: Yuemin Wang Kovaleff
Deviation: N/A

Mycotoxins	LOQ (ppb)	Limit (ppb)	Status
Aflatoxin B1	4.85		
Aflatoxin B2	3.64		
Aflatoxin G1	3.64		
Aflatoxin G2	4.85		
Ochratoxin A	3.64		
Total Mycotoxins	3.64	20.0	Pass

Eric Steele, Lab Director
10/21/2023

END OF REPORT

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