



SMITHERS

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



Customer: Bay State Extracts

Address:

3065 Cranberry Highway
East Wareham MA 02538

Phone: 800-847-4427

License #: MDAR 25200133P



Sample ID: 28536
Sample Name: Trifecta Chill Oil Drops
Sample Type: Tincture
Received Date: 05/29/2025
Report Date: 06/02/2025
METRC ID: N/A
Client Batch ID: 25121CS
Client Sample Size: 30 milliliters
Unit Weight (g): 1

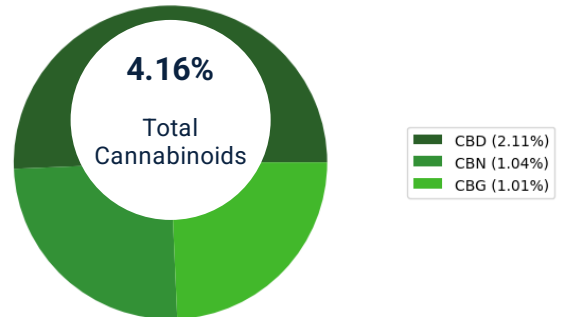
Certificate of Analysis



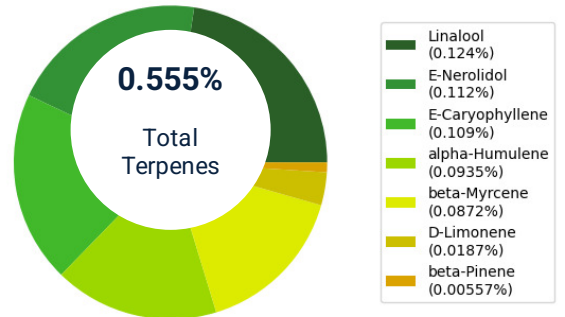
Results Summary

Cannabinoids 06/02/2025	TESTED
Terpenes 06/02/2025	TESTED
Heavy Metals 06/02/2025	✓ PASS
Microbial Impurities 06/02/2025	✓ PASS
Residual Solvents 06/02/2025	✓ PASS
Mycotoxins 06/02/2025	✓ PASS

Cannabinoid Distribution (%)



Terpene Distribution (%)



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Certificate of Analysis

Cannabinoids

Date Started: 05/30/2025

Instrument: UPLC-PDA

Date Completed: 06/02/2025

Method: TP-09.001.05 & TP-09.012.05

Analyst: Yuemin Wang Kovaleff

Deviation: N/A

Cannabinoid	Result (%)	Result (mg/serving)	Result (mg/package)	LOD (mg/serving)	LOQ (mg/serving)
CBD	2.11	21.1	632	0.00342	0.0441
CBN	1.04	10.4	312	0.00302	0.0221
CBG	1.01	10.1	303	0.00192	0.0221
CBDVA	ND	ND	ND	0.00297	0.0177
CBDV	ND	ND	ND	0.00844	0.0177
CBDA	ND	ND	ND	0.00278	0.0441
CBGA	ND	ND	ND	0.00173	0.0221
Δ9-THCV	ND	ND	ND	0.00238	0.0177
Δ8-THCV	ND	ND	ND	0.00431	0.0177
THCVA	ND	ND	ND	0.00187	0.0177
CBNA	ND	ND	ND	0.00233	0.0177
Exo-THC	ND	ND	ND	0.00353	0.0177
Δ9-THC	ND	ND	ND	0.00816	0.0441
Δ8-THC	ND	ND	ND	0.00773	0.0221
CBL	ND	ND	ND	0.00523	0.0177
THCA	ND	ND	ND	0.00706	0.0441
CBC	ND	ND	ND	0.00209	0.0177
CBCA	ND	ND	ND	0.00568	0.0177
Total THC	ND	ND	ND		
Total CBD	2.11	21.1	632		
Total Cannabinoids	4.16	41.6	1247		

Total THC = Δ9-THC + (THCA 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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Certificate of Analysis

Terpenes

Date Started: 05/30/2025
Instrument: GC-MS

Date Completed: 06/02/2025
Method: TP-09.004.03

Analyst: Garrett Lane
Deviation: N/A

Terpene	Result (%)	Result (mg/g)	LOD (%)	LOQ (%)
Linalool	0.124	1.24	0.00336	0.0110
E-Nerolidol	0.112	1.12	0.00252	0.0110
E-Caryophyllene	0.109	1.09	0.00485	0.0110
alpha-Humulene	0.0935	0.935	0.00238	0.0110
beta-Myrcene	0.0872	0.872	0.00185	0.0110
D-Limonene	0.0187	0.187	0.00233	0.0110
beta-Pinene	<LOQ	<LOQ	0.00229	0.0110
alpha-Pinene	<LOQ	<LOQ	0.000927	0.0110
Camphene	ND	ND	0.00122	0.0110
E-beta-Ocimene	ND	ND	0.00456	0.0110
Isopulegol	ND	ND	0.00535	0.0110
Geraniol	ND	ND	0.00343	0.0110
Z-Nerolidol	ND	ND	0.00299	0.0110
Guaiol	ND	ND	0.00240	0.0110
Carophyllene Oxide	ND	ND	0.00250	0.0110
alpha-Bisabolol	ND	ND	0.00409	0.0110
Eucalyptol	ND	ND	0.00335	0.0110
delta-3-Carene	ND	ND	0.00360	0.0110
alpha-Terpinene	ND	ND	0.00338	0.0110
Z-beta-Ocimene	ND	ND	0.00447	0.0110
gamma-Terpinene	ND	ND	0.00250	0.0110
Terpinolene	ND	ND	0.00138	0.0110
Total Terpenes	0.555	5.55		

Heavy Metals

✓ PASS

Date Started: 05/31/2025
Instrument: ICP-MS

Date Completed: 06/02/2025
Method: TP-09.007.01

Analyst: Meagan Mattos
Deviation: N/A

Heavy Metals	Result (ppb)	LOD (ppb)	LOQ (ppb)	Limit (ppb)	Status
Arsenic	ND	11.3	76.6	200	Pass
Cadmium	ND	6.80	76.6	200	Pass
Lead	ND	6.25	76.6	500	Pass
Mercury	ND	5.45	38.3	100	Pass

Microbial Impurities

✓ PASS

Date Started: 05/29/2025
Instrument: TEMPO & Gene-Up

Date Completed: 06/02/2025
Method: TP-09.010.01 & TP-09.011.01

Analyst: Sydney Murphy
Deviation: N/A

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

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Certificate of Analysis

Residual Solvents

✓ PASS

Date Started: 05/30/2025
Instrument: HS-GC-MS

Date Completed: 06/02/2025
Method: TP-09.005.03

Analyst: Garrett Lane
Deviation: N/A

Residual Solvent	Result (ppm)	LOD (ppm)	LOQ (ppm)	Limit (ppm)	Status
n-Propane	ND	0.401	1.58	12.0	Pass
Iso-butane	<LOQ	0.264	1.58	12.0	Pass
n-Butane	<LOQ	0.173	1.58	12.0	Pass
Methanol	ND	37.5	94.7	3000	Pass
Ethylene Oxide	ND	0.631	1.26		Pass
n-Pentane	ND	25.5	94.7	5000	Pass
Ethanol	ND	17.6	94.7	5000	Pass
Ethyl Ether	ND	23.9	94.7	5000	Pass
Acetone	ND	17.2	94.7	5000	Pass
Isopropyl Alcohol	ND	21.4	94.7	5000	Pass
Acetonitrile	ND	13.3	94.7	410	Pass
Methylene Chloride	ND	0.631	1.26	600	Pass
n-Hexane	ND	25.8	94.7	290	Pass
Ethyl Acetate	ND	14.8	94.7	5000	Pass
Chloroform	ND	0.631	1.26	60.0	Pass
1,2-Dichloroethane	ND	0.631	1.26	1870	Pass
Benzene	ND	0.631	1.26		Pass
n-Heptane	<LOQ	27.6	94.7	5000	Pass
Trichloroethylene	ND	0.631	1.26	80.0	Pass
Toluene	ND	10.9	94.7	890	Pass
Total Xylenes	ND	18.7	47.4	2170	Pass

Mycotoxins

✓ PASS

Date Started: 05/29/2025
Instrument: LC-MS/MS

Date Completed: 06/02/2025
Method: TP-09.009.05

Analyst: Lana Rivera
Deviation: N/A

Mycotoxins	Result (ppb)	LOD (ppb)	LOQ (ppb)	Limit (ppb)	Status
Aflatoxin B1	ND	0.806	2.66		
Aflatoxin B2	ND	0.806	2.66		
Aflatoxin G1	ND	0.806	2.66		
Aflatoxin G2	ND	0.806	2.66		
Ochratoxin A	ND	0.806	2.66		
Total Mycotoxins	ND	0.806	2.66	20.0	Pass

Yuemin Wang Kovaleff, Lab
Manager
06/02/2025

END OF REPORT

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