



SMITHERS

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

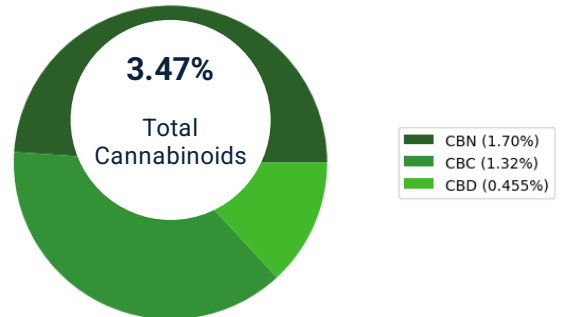


Sample ID: 28534
Sample Name: Trifecta Blackout Oil Drops
Sample Type: Tincture
Received Date: 05/29/2025
Report Date: 06/02/2025
METRC ID: N/A
Client Batch ID: 25121BS
Client Sample Size: 30 milliliters
Unit Weight (g): 1

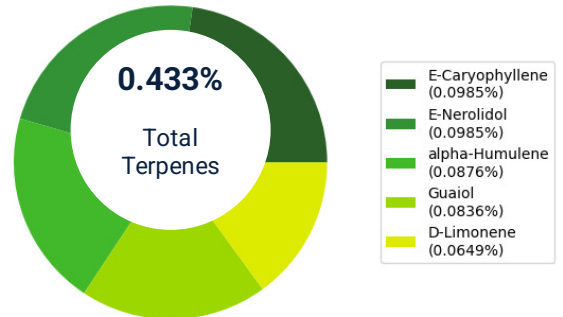
Results Summary

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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Cannabinoids

Date Started: 06/02/2025

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)
CBN	1.70	17.0	509	0.00295	0.0216
CBC	1.32	13.2	395	0.00204	0.0173
CBD	0.455	4.55	137	0.00334	0.0431
CBDVA	ND	ND	ND	0.00290	0.0173
CBDV	ND	ND	ND	0.00825	0.0173
CBDA	ND	ND	ND	0.00272	0.0431
CBGA	ND	ND	ND	0.00169	0.0216
CBG	ND	ND	ND	0.00187	0.0216
Δ9-THCV	ND	ND	ND	0.00233	0.0173
Δ8-THCV	ND	ND	ND	0.00421	0.0173
THCVA	ND	ND	ND	0.00183	0.0173
CBNA	ND	ND	ND	0.00228	0.0173
Exo-THC	ND	ND	ND	0.00345	0.0173
Δ9-THC	ND	ND	ND	0.00797	0.0431
Δ8-THC	ND	ND	ND	0.00756	0.0216
CBL	ND	ND	ND	0.00511	0.0173
THCA	ND	ND	ND	0.00690	0.0431
CBCA	ND	ND	ND	0.00556	0.0173
Total THC	ND	ND	ND		
Total CBD	0.455	4.55	137		
Total Cannabinoids	3.47	34.7	1041		

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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Terpenes

Date Started: 06/02/2025
Instrument: GC-MS

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

Analyst: Garrett Lane
Deviation: N/A

Table with 5 columns: Terpene, Result (%), Result (mg/g), LOD (%), LOQ (%). Lists various terpenes like E-Caryophyllene, E-Nerolidol, alpha-Humulene, etc., with their respective results and limits.

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

Table with 6 columns: Heavy Metals, Result (ppb), LOD (ppb), LOQ (ppb), Limit (ppb), Status. Lists metals like Arsenic, Cadmium, Lead, Mercury with their results and limits.

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

Table with 4 columns: Microbials, Result (CFU/g), Limit (CFU/g), Status. Lists microbials like Coliforms, Bile-Tolerant Gram-Negative Bacteria, Yeast & Mold, etc.

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PASS

Residual Solvents

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	0.402	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	37.6	94.9	3000	Pass
Ethylene Oxide	ND	0.633	1.27		Pass
n-Pentane	ND	25.5	94.9	5000	Pass
Ethanol	ND	17.6	94.9	5000	Pass
Ethyl Ether	ND	24.0	94.9	5000	Pass
Acetone	ND	17.2	94.9	5000	Pass
Isopropyl Alcohol	ND	21.5	94.9	5000	Pass
Acetonitrile	ND	13.4	94.9	410	Pass
Methylene Chloride	ND	0.633	1.27	600	Pass
n-Hexane	ND	25.8	94.9	290	Pass
Ethyl Acetate	ND	14.9	94.9	5000	Pass
Chloroform	ND	0.633	1.27	60.0	Pass
1,2-Dichloroethane	ND	0.633	1.27	1870	Pass
Benzene	ND	0.633	1.27		Pass
n-Heptane	<LOQ	27.6	94.9	5000	Pass
Trichloroethylene	ND	0.633	1.27	80.0	Pass
Toluene	ND	10.9	94.9	890	Pass
Total Xylenes	ND	18.7	47.5	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	0.837	2.76		
Aflatoxin B2	ND	0.837	2.76		
Aflatoxin G1	ND	0.837	2.76		
Aflatoxin G2	ND	0.837	2.76		
Ochratoxin A	ND	0.837	2.76		
Total Mycotoxins	ND	0.837	2.76	20.0	Pass

Yuemin Wang Kovaleff, Lab
Manager
06/02/2025

END OF REPORT

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