



SMITHERS

Smithers AMS LLC

790 Main St

Wareham, MA 02571

License #: IL281355

Phone: 508-295-2550

# Certificate of Analysis



Customer: Elevated Roots

Address:

44 William C Gould Jr. Way  
Kingston MA 02364

Phone: 928-451-5113

License #: MC282873



Sample ID: 44167

Sample Name: M00003357725: Bulk Flower,  
Ethos Cookies

Sample Strain: Ethos Cookies

Sample Type: Flower

Received Date: 03/18/2026

Report Date: 03/22/2026

METRC ID: 1A40A030000F231000016711

METRC Source ID:

1A40A030000F231000016675

Client Batch ID: EthosCookies2603041

Sanitization Method: None

Client Sample Size: 8 grams

## Results Summary

### Cannabinoids

03/19/2026

TESTED

### Terpenes Extended

03/20/2026

TESTED

### Heavy Metals

03/21/2026

✓ PASS

### Microbial Impurities

03/22/2026

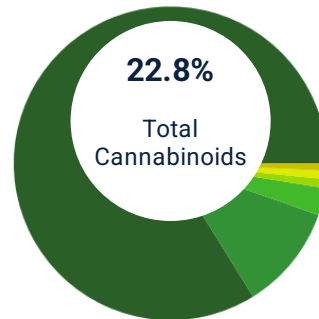
✓ PASS

### Pesticides and Mycotoxins

03/19/2026

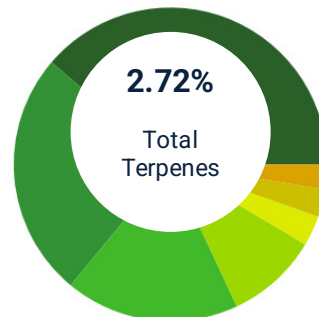
✓ PASS

## Cannabinoid Distribution (%)



THCA (19.1%)
CBGA (2.47%)
Δ9-THC (0.639%)
CBCA (0.207%)
CBG (0.199%)
THCVA (0.170%)

## Terpene Distribution (%)



Terpinolene (0.951%)
Z-beta-Ocimene (0.622%)
beta-Myrcene (0.441%)
E-Caryophyllene (0.234%)
D-Limonene (0.0763%)
alpha-Humulene (0.0702%)
beta-Pinene (0.0629%)

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## Cannabinoids

**Date Started:** 03/18/2026

**Instrument:** UPLC-PDA

**Date Completed:** 03/19/2026

**Method:** TP-09.001.06 & TP-09.012.07

**Analyst:** Yueming Wang Kovaleff (B143510)

**Deviation:** N/A

Cannabinoid	Result (%)	Result (mg/g)	LOD (%)	LOQ (%)
THCA	19.1	191	0.104	0.647
CBGA	2.47	24.7	0.00254	0.0323
Δ9-THC	0.639	6.39	0.0120	0.0647
CBCA	0.207	2.07	0.00833	0.0259
CBG	0.199	1.99	0.00281	0.0323
THCVA	0.170	1.70	0.00275	0.0259
CBDVA	ND	ND	0.00435	0.0259
CBDV	ND	ND	0.0124	0.0259
CBDA	ND	ND	0.00408	0.0647
CBD	ND	ND	0.00501	0.0647
Δ9-THCV	ND	ND	0.00349	0.0259
Δ8-THCV	ND	ND	0.00631	0.0259
CBN	ND	ND	0.00443	0.0323
CBNA	ND	ND	0.00342	0.0259
Exo-THC	ND	ND	0.00518	0.0259
Δ8-THC	ND	ND	0.0113	0.0323
CBL	ND	ND	0.00766	0.0259
CBC	ND	ND	0.00306	0.0259
<b>Total THC</b>	<b>17.4</b>	<b>174</b>		
<b>Total CBD</b>	<b>ND</b>	<b>ND</b>		
<b>Total Cannabinoids</b>	<b>22.8</b>	<b>228</b>		

**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 Extended

Date Started: 03/18/2026  
Instrument: GC-MS

Date Completed: 03/20/2026  
Method: TP-09.004.06

Analyst: Yuemin Wang Kovaleff (B143510)  
Deviation: N/A

Terpene	Result (%)	Result (mg/g)	LOD (%)	LOQ (%)
Terpinolene	0.951	9.51	0.000807	0.00647
Z-beta-Ocimene	0.622	6.22	0.00262	0.00647
beta-Myrcene	0.441	4.41	0.00109	0.00647
E-Caryophyllene	0.234	2.34	0.00284	0.00647
D-Limonene	0.0763	0.763	0.00137	0.00647
alpha-Humulene	0.0702	0.702	0.00140	0.00647
beta-Pinene	0.0629	0.629	0.00134	0.00647
Guaiol	0.0525	0.525	0.00141	0.00647
Linalool	0.0460	0.460	0.00197	0.00647
alpha-Pinene	0.0405	0.405	0.000543	0.00647
alpha-Bisabolol	0.0398	0.398	0.00240	0.00647
delta-3-Carene	0.0268	0.268	0.00211	0.00647
alpha-Terpinene	0.0219	0.219	0.00198	0.00647
gamma-Terpinene	0.0170	0.170	0.00146	0.00647
Carophyllene Oxide	0.00897	0.0897	0.00146	0.00647
E-beta-Ocimene	0.00768	0.0768	0.00268	0.00647
Eucalyptol	<LOQ	<LOQ	0.00196	0.00647
Camphene	<LOQ	<LOQ	0.000714	0.00647
gamma-Terpineol	ND	ND	0.00116	0.00647
Isopulegol	ND	ND	0.00314	0.00647
Nerol	ND	ND	0.00204	0.00647
Geraniol	ND	ND	0.00201	0.00647
Pulegone	ND	ND	0.00245	0.00647
Valencene	ND	ND	0.00171	0.00647
Z-Nerolidol	ND	ND	0.00175	0.00647
E-Nerolidol	ND	ND	0.00148	0.00647
Sabinene	ND	ND	0.00220	0.00647
alpha-Phellandrene	ND	ND	0.00101	0.00647
Sabinene Hydrate	ND	ND	0.00216	0.00647
Endo-Fenchyl Alcohol	ND	ND	0.00215	0.00647
Isoborneol	ND	ND	0.00139	0.00647
Menthol	ND	ND	0.00216	0.00647
[+/-]-Borneol	ND	ND	0.00250	0.0129
alpha-Terpineol	ND	ND	0.00244	0.00647
alpha-Cedrene	ND	ND	0.00196	0.00647
Geranyl Acetate	ND	ND	0.00304	0.00647
Cedrol	ND	ND	0.00263	0.00647
[+,N,-]-Camphor	ND	ND	0.00478	0.0194
[+/-]-Fenchone	ND	ND	0.00143	0.0129
<b>Total Terpenes</b>	<b>2.72</b>	<b>27.2</b>		

## Heavy Metals

**PASS**

Date Started: 03/19/2026  
Instrument: ICP-MS

Date Completed: 03/21/2026  
Method: TP-09.007.04

Analyst: Meagan Mattos (B154555)  
Deviation: N/A

Heavy Metals	Result (ppb)	LOD (ppb)	LOQ (ppb)	Limit (ppb)	Status
Arsenic	ND	12.1	82.1	200	Pass
Cadmium	ND	7.29	82.1	200	Pass
Lead	ND	6.70	82.1	500	Pass
Mercury	ND	5.84	41.0	100	Pass

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## Microbial Impurities

✓ PASS

Date Started: 03/18/2026  
Instrument: TEMPO & Gene-Up

Date Completed: 03/22/2026  
Method: TP-09.010.02 & TP-09.011.03

Analyst: Sydney Murphy (B168056)  
Deviation: N/A

Microbiols	Result (CFU/g)	Limit (CFU/g)	Status
Coliforms	ND	1000	Pass
Bile-Tolerant Gram-Negative Bacteria	ND	1000	Pass
Yeast & Mold	550	10000	Pass
Aerobic Bacteria	ND	100000	Pass
E.coli	ND		Pass
Salmonella	ND		Pass

## Pesticides and Mycotoxins

✓ PASS

Date Started: 03/18/2026  
Instrument: LC-MS/MS & GC-MS/MS

Date Completed: 03/19/2026  
Method: TP-09.008.03 & TP-09.009.05

Analyst: Yuemin Wang Kovaleff (B143510)  
Deviation: N/A

Analyte	Result (ppb)	LOD (ppb)	LOQ (ppb)	Limit (ppb)	Status
Bifenazate	ND	0.926	3.05	10.0	Pass
Bifenthrin	ND	0.926	3.05	10.0	Pass
Cyfluthrin	ND	0.405	2.54	10.0	Pass
Etoazole	ND	0.926	3.05	10.0	Pass
Imazalil	ND	0.926	3.05	10.0	Pass
Imidacloprid	ND	0.926	3.05	10.0	Pass
Myclobutanil	ND	0.926	3.05	10.0	Pass
Spiromesifen	ND	1.23	4.07	10.0	Pass
Trifloxystrobin	ND	0.926	3.05	10.0	Pass
Aflatoxin B1	ND	0.926	3.05		
Aflatoxin B2	ND	0.926	3.05		
Aflatoxin G1	ND	0.926	3.05		
Aflatoxin G2	ND	0.926	3.05		
Ochratoxin A	ND	0.926	3.05		
<b>Total Mycotoxins</b>	<b>ND</b>	<b>0.926</b>	<b>3.05</b>	<b>20.0</b>	<b>Pass</b>

Eric Steele, Lab Director  
03/22/2026

END OF REPORT

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