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

# Certificate of Analysis



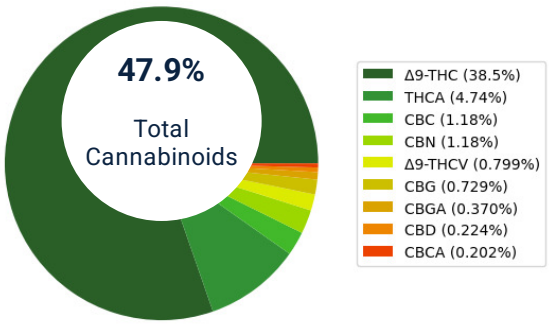
**Customer:** HAVN Extracts
**Address:**
125 Southbridge Rd
North Oxford MA 01537
**Phone:**
**License #:** MP281627

**Sample ID:** 53170
**Sample Name:** Stingers Sweets - Distillate Infused Flower Orange Dreamsicle
**Sample Type:** Infused Pre-roll
**Received Date:** 09/03/2026
**Report Date:** 09/07/2026
**METRC ID:** 1A40A03000048A9000026586
**METRC Source ID:** 1A40A03000048A9000026577
**Client Batch ID:** SSOD-090326
**Sanitization Method:** None
**Client Sample Size:** 4.4 grams

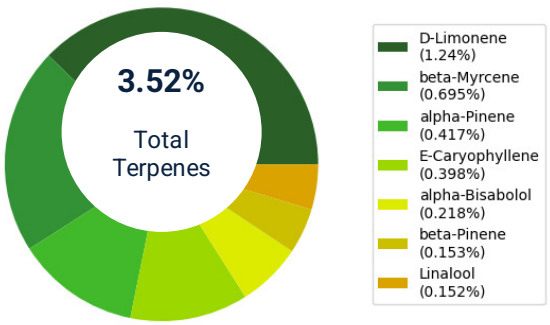
## Results Summary

| | | |
|---|---|---|
| **Cannabinoids** | TESTED | 09/04/2026 |
| **Terpenes** | TESTED | 09/07/2026 |
| **Heavy Metals** | PASS | 09/04/2026 |
| **Microbial Impurities** | PASS | 09/06/2026 |
| **Residual Solvents** | PASS | 09/04/2026 |
| **Mycotoxins** | PASS | 09/04/2026 |

**Cannabinoid Distribution (%)**




**Terpene Distribution (%)**

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## Cannabinoids

**Date Started:** 09/03/2026
**Instrument:** UPLC-PDA

**Date Completed:** 09/04/2026
**Method:** TP-09.001.06 & TP-09.012.07

**Analyst:** Lana Rivera (B144852)
**Deviation:** N/A

| Cannabinoid | Result (%) | Result (mg/g) | LOD (%) | LOQ (%) |
|---|---|---|---|---|
| Δ9-THC | 38.5 | 385 | 0.144 | 0.781 |
| THCA | 4.74 | 47.4 | 0.0125 | 0.0781 |
| CBC | 1.18 | 11.8 | 0.00370 | 0.0312 |
| CBN | 1.18 | 11.8 | 0.00535 | 0.0390 |
| Δ9-THCV | 0.799 | 7.99 | 0.00421 | 0.0312 |
| CBG | 0.729 | 7.29 | 0.00339 | 0.0390 |
| CBGA | 0.370 | 3.70 | 0.00306 | 0.0390 |
| CBD | 0.224 | 2.24 | 0.00605 | 0.0781 |
| CBCA | 0.202 | 2.02 | 0.0101 | 0.0312 |
| CBDVA | ND | ND | 0.00525 | 0.0312 |
| CBDV | ND | ND | 0.0149 | 0.0312 |
| CBDA | ND | ND | 0.00492 | 0.0781 |
| Δ8-THCV | ND | ND | 0.00762 | 0.0312 |
| THCVA | ND | ND | 0.00332 | 0.0312 |
| CBNA | ND | ND | 0.00412 | 0.0312 |
| Exo-THC | ND | ND | 0.00625 | 0.0312 |
| Δ8-THC | ND | ND | 0.0137 | 0.0390 |
| CBL | ND | ND | 0.00925 | 0.0312 |
| **Total THC** | **42.6** | **426** | | |
| **Total CBD** | **0.224** | **2.24** | | |
| **Total Cannabinoids** | **47.9** | **479** | | |

**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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SMITHERS

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# Certificate of Analysis

## Terpenes

**Date Started:** 09/03/2026
**Instrument:** GC-MS

**Date Completed:** 09/07/2026
**Method:** TP-09.004.06

**Analyst:** Lana Rivera (B144852)
**Deviation:** N/A

| Terpene | Result (%) | Result (mg/g) | LOD (%) | LOQ (%) |
|---|---|---|---|---|
| D-Limonene | 1.24 | 12.4 | 0.00169 | 0.00799 |
| beta-Myrcene | 0.695 | 6.95 | 0.00134 | 0.00799 |
| alpha-Pinene | 0.417 | 4.17 | 0.000671 | 0.00799 |
| E-Caryophyllene | 0.398 | 3.98 | 0.00351 | 0.00799 |
| alpha-Bisabolol | 0.218 | 2.18 | 0.00296 | 0.00799 |
| beta-Pinene | 0.153 | 1.53 | 0.00165 | 0.00799 |
| Linalool | 0.152 | 1.52 | 0.00243 | 0.00799 |
| alpha-Humulene | 0.0823 | 0.823 | 0.00173 | 0.00799 |
| Terpinolene | 0.0806 | 0.806 | 0.000997 | 0.00799 |
| Geraniol | 0.0527 | 0.527 | 0.00249 | 0.00799 |
| Guaiol | 0.0175 | 0.175 | 0.00174 | 0.00799 |
| Camphene | 0.0175 | 0.175 | 0.000882 | 0.00799 |
| E-beta-Ocimene | ND | ND | 0.00330 | 0.00799 |
| Isopulegol | ND | ND | 0.00387 | 0.00799 |
| Z-Nerolidol | ND | ND | 0.00217 | 0.00799 |
| E-Nerolidol | ND | ND | 0.00182 | 0.00799 |
| Carophyllene Oxide | ND | ND | 0.00181 | 0.00799 |
| Eucalyptol | ND | ND | 0.00242 | 0.00799 |
| delta-3-Carene | ND | ND | 0.00261 | 0.00799 |
| alpha-Terpinene | ND | ND | 0.00245 | 0.00799 |
| Z-beta-Ocimene | ND | ND | 0.00323 | 0.00799 |
| gamma-Terpinene | ND | ND | 0.00181 | 0.00799 |
| **Total Terpenes** | **3.52** | **35.2** | | |

## Heavy Metals

PASS

**Date Started:** 09/04/2026
**Instrument:** ICP-MS

**Date Completed:** 09/04/2026
**Method:** TP-09.007.04

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

| Heavy Metals | Result (ppb) | LOD (ppb) | LOQ (ppb) | Limit (ppb) | Status |
|---|---|---|---|---|---|
| Arsenic | <LOQ | 11.3 | 76.4 | 200 | Pass |
| Cadmium | ND | 67.8 | 76.4 | 200 | Pass |
| Lead | ND | 6.23 | 76.4 | 500 | Pass |
| Mercury | ND | 5.44 | 38.2 | 100 | Pass |

## Microbial Impurities

PASS

**Date Started:** 09/03/2026
**Instrument:** TEMPO & Gene-Up

**Date Completed:** 09/06/2026
**Method:** TP-09.010.02 & TP-09.011.03

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

| Microbials | Result (CFU/g) | Limit (CFU/g) | Status |
|---|---|---|---|
| Coliforms | ND | 100 | Pass |
| Bile-Tolerant Gram-Negative Bacteria | ND | 100 | Pass |
| Yeast & Mold | ND | 1000 | Pass |
| Aerobic Bacteria | 890 | 10000 | Pass |
| E.coli | ND | | Pass |
| Salmonella | ND | | Pass |

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## Residual Solvents

PASS

**Date Started:** 09/03/2026
**Instrument:** HS-GC-MS

**Date Completed:** 09/04/2026
**Method:** TP-09.005.05

**Analyst:** Lana Rivera (B144852)
**Deviation:** N/A

| Residual Solvent | Result (ppm) | LOD (ppm) | LOQ (ppm) | Limit (ppm) | Status |
|---|---|---|---|---|---|
| n-Propane | ND | 0.397 | 1.56 | 12.0 | Pass |
| n-Butane | ND | 0.171 | 1.56 | 12.0 | Pass |
| Methanol | ND | 37.1 | 93.8 | 3000 | Pass |
| Ethylene Oxide | ND | 0.625 | 1.25 | | Pass |
| n-Pentane | ND | 25.2 | 93.8 | 5000 | Pass |
| Ethanol | ND | 17.4 | 93.8 | 5000 | Pass |
| Ethyl Ether | ND | 23.7 | 93.8 | 5000 | Pass |
| Acetone | ND | 17.0 | 93.8 | 5000 | Pass |
| Isopropyl Alcohol | ND | 21.2 | 93.8 | 5000 | Pass |
| Acetonitrile | ND | 13.2 | 93.8 | 410 | Pass |
| Methylene Chloride | ND | 0.625 | 1.25 | 600 | Pass |
| n-Hexane | ND | 25.5 | 93.8 | 290 | Pass |
| Ethyl Acetate | ND | 14.7 | 93.8 | 5000 | Pass |
| Chloroform | ND | 0.625 | 1.25 | 60.0 | Pass |
| 1,2-Dichloroethane | ND | 0.625 | 1.25 | 1870 | Pass |
| Benzene | ND | 0.625 | 1.25 | | Pass |
| n-Heptane | ND | 27.3 | 93.8 | 5000 | Pass |
| Trichloroethylene | ND | 0.625 | 1.25 | 80.0 | Pass |
| Toluene | ND | 10.8 | 93.8 | 890 | Pass |
| **Total Xylenes** | **ND** | **18.5** | **46.9** | **2170** | **Pass** |

## Mycotoxins

PASS

**Date Started:** 09/03/2026
**Instrument:** LC-MS/MS

**Date Completed:** 09/04/2026
**Method:** TP-09.009.06

**Analyst:** Lana Rivera (B144852)
**Deviation:** N/A

| Mycotoxins | Result (ppb) | LOD (ppb) | LOQ (ppb) | Limit (ppb) | Status |
|---|---|---|---|---|---|
| Aflatoxin B1 | ND | 0.807 | 2.66 | | |
| Aflatoxin B2 | ND | 0.807 | 2.66 | | |
| Aflatoxin G1 | ND | 0.807 | 2.66 | | |
| Aflatoxin G2 | ND | 0.807 | 2.66 | | |
| Ochratoxin A | ND | 0.807 | 2.66 | | |
| **Total Mycotoxins** | **ND** | **0.807** | **2.66** | **20.0** | **Pass** |

Yuemin Wang Kovaleff, Lab Manager
09/07/2026

END OF REPORT

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