**Nanticoke Hemp Inc.**
1543 Union Center Maine Hwy
pete@nanticokegardens.com
607-754-5008
License #: OCM-PROC-24-000002

# Certificate of Analysis

Final

Date Released: 8/20/2025 11:02:04AM

Report #: 76489

## Cherry Diesel Infused .5g Preroll 2 Pack

**Sample #:** 17594, **Weight:** 20.00g, **Unit Count:**
**Order #:** X250812-0002
**Category/Type:** Plant, Enhanced Preroll
**Date Collected:** 8/11/2025 1:50:00PM
**Date Received:** 8/12/2025 11:56:29AM
**Date Sampled:** 8/11/2025 9:24:00AM
**Regulator Sample ID:** LD052004ACDPRI2P
**Regulator Source Package ID:** LD052004ACDPRI2P
**Regulator Batch ID:** LD052004ACDPRI2P

**Size:** 10000Units, **Unit Count:**

| Total Cannabinoids | Total THC | Total CBD | Total Terpenes | Moisture | Heavy Metals |
|---|---|---|---|---|---|
| 47.90 %<br>479.0 mg/g | 43.95 %<br>439.5 mg/g | 0.1129 %<br>1.129 mg/g | 1.776 % | 7.3 % | PASS |

| Microbials | Residual Solvents | Pesticides | Mycotoxins | Water Activity |
|---|---|---|---|---|
| PASS | PASS | PASS | PASS | PASS |

## Cannabinoids Avg

Total Cannabinoids: **47.90 % - 479.0 mg/g**
Total THC: **43.95 % - 439.5 mg/g**
Total CBD: **0.1129 % - 1.129 mg/g**

**Date Completed:** 08/14/2025 12:59PM

| Compound | CAS# | LOQ (%) | % | mg/g | Relative Concentration |
|---|---|---|---|---|---|
| d9-THC | 1972-08-3 | 0.001000 | 30.88 | 308.8 | |
| THCa | 23978-85-0 | 0.001000 | 14.90 | 149.0 | |
| CBG | 25654-31-3 | 0.001000 | 1.165 | 11.65 | |
| CBGa | 25555-57-1 | 0.001000 | 0.3687 | 3.687 | |
| THCV | 31262-37-0 | 0.001000 | 0.2842 | 2.842 | |
| CBN | 521-35-7 | 0.001000 | 0.1886 | 1.886 | |
| CBD | 13956-29-1 | 0.001000 | 0.1129 | 1.129 | |

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**Keystone State Testing of New York**
1809 Vestal Pkwy E

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Dr. Kelly Greenland, Lab Director



**Report Date:** 08/20/2025 11:06:53AM

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## Sample #: 17594

## Cherry Diesel Infused .5g Preroll 2 Pack

| Compound | CAS# | LOQ (%) | % | mg/g | Relative Concentration |
|---|---|---|---|---|---|
| CBDV | 24274-48-4 | 0.001000 | ND | ND | |
| CBDa | 1244-58-2 | 0.001000 | ND | ND | |
| d8-THC | 5957-75-5 | 0.001000 | ND | ND | |
| d10/R9-THC | 95543-62-7 | 0.001000 | ND | ND | |
| d10/S9-THC | 95588-87-7 | 0.001000 | ND | ND | |
| CBC | 20675-51-8 | 0.001000 | ND | ND | |

**Test Comment:** Cannabinoids analyzed by HPLC using P-NY100. The reported result is based on a sample weight using moisture content for flower samples unless moisture is listed as zero or ND. Unless otherwise stated all QC passed.

## Terpenes by HS-GC-MS

**Date Completed:** 08/14/2025 11:13AM

| Compound | CAS# | LOQ (%) | % | Relative Concentration |
|---|---|---|---|---|
| Beta-caryophyllene | 87-44-5 | 0.1000 | 0.8590 | |
| Valencene | 4630-07-3 | 0.1000 | 0.3020 | |
| Farnesene | 502-61-4 | 0.1000 | 0.2351 | |
| Alpha-humulene | 6753-98-6 | 0.1000 | 0.2135 | |
| Linalool | 78-70-6 | 0.1000 | 0.1660 | |
| Results based on dry weight | | | | |
| Beta-myrcene | 123-35-3 | 0.1000 | ND | |
| Limonene | 5989-27-5 | 0.1000 | ND | |
| Alpha-pinene | 80-56-8 | 0.1000 | ND | |

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**Sample #: 17594** **Cherry Diesel Infused .5g Preroll 2 Pack**

| Compound | CAS# | LOQ (%) | % | Relative Concentration |
|---|---|---|---|---|
| Beta-pinene | 127-91-3 | 0.1000 | ND | |
| Terpinolene | 586-62-9 | 0.1000 | ND | |
| Ocimene | 13877-91-3 | 0.1000 | ND | |
| Alpha-bisabolol | 515-69-5 | 0.1000 | ND | |
| Caryophyllene-oxide | 1139-30-6 | 0.1000 | ND | |
| Geraniol | 106-24-1 | 0.1000 | ND | |
| Camphene | 79-92-5 | 0.1000 | ND | |
| Guaiol | 489-86-1 | 0.1000 | ND | |
| Alpha-terpinene | 99-86-5 | 0.1000 | ND | |
| Terpineol | 8006-39-1 | 0.1000 | ND | |
| Fenchol | 14575-74-7 | 0.1000 | ND | |
| Alpha-phellandrene | 99-83-2 | 0.1000 | ND | |

**Test Comment:** Terpenes tested by GCMS using P-NY210. Unless otherwise stated, all QC passed.

## Moisture LWG

**Pass**

**Analysis Date:** 08/14/2025 1:17 pm

| Compound | LOQ (%) | Limits (%) | Result (%) | Status |
|---|---|---|---|---|
| Moisture | 1.2 | 0 - 15 | 7.3 | Pass |

Comment: Physical chemistry was tested using moisture analyzer, water activity meter using P-NY 160. Unless otherwise stated, all QC passed.

## Water Activity

**Pass**

**Analysis Date:** 08/14/2025 1:17 pm

| Compound | LOQ (Aw) | Limits (Aw) | Result (Aw) | Status |
|---|---|---|---|---|
| Water Activity | 0.05 | 0.65 | 0.52 | Pass |

Comment: Physical chemistry was tested using moisture analyzer, water activity meter using P-NY 160. Unless otherwise stated, all QC passed.

## Pesticides by LCMSMS

**Pass**

**Analysis Date:** 08/18/2025 1:34 pm

| Compound | LOQ (µg/g) | Limits (µg/g) | Result (µg/g) | Status |
|---|---|---|---|---|
| Abamectin | 0.0100 | 0.500 | ND | Pass |

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# Certificate of Analysis

Final

**Sample #: 17594**

**Cherry Diesel Infused .5g Preroll 2 Pack**

## Pesticides by LCMSMS

**Pass**

**Analysis Date:** 08/18/2025 1:34 pm

| Compound | LOQ (µg/g) | Limits (µg/g) | Result (µg/g) | Status |
|---|---|---|---|---|
| Acephate | 0.0100 | 0.400 | ND | Pass |
| Acequinocyl | 0.0100 | 2.00 | ND | Pass |
| Acetamiprid | 0.0100 | 0.200 | ND | Pass |
| Aldicarb | 0.0100 | 0.400 | ND | Pass |
| Azadirachtin | 0.0100 | 1.00 | ND | Pass |
| Azoxystrobin | 0.0100 | 0.200 | ND | Pass |
| Bifenazate | 0.0100 | 0.200 | ND | Pass |
| Bifenthrin | 0.0100 | 0.200 | ND | Pass |
| Boscalid | 0.0100 | 0.400 | ND | Pass |
| Captan | 0.0100 | 1.00 | ND | Pass |
| Carbaryl | 0.0100 | 0.200 | ND | Pass |
| Carbofuran | 0.0100 | 0.200 | ND | Pass |
| Chlorantraniliprole | 0.0100 | 0.200 | ND | Pass |
| Chlordane-alpha | 0.0100 | 1.00 | ND | Pass |
| Chlorfenapyr | 0.0100 | 1.00 | ND | Pass |
| Chlormequat Chloride | 0.0100 | 1.00 | ND | Pass |
| Chlorpyrifos | 0.0100 | 0.200 | ND | Pass |
| Clofentezine | 0.0100 | 0.200 | ND | Pass |
| Coumaphos | 0.0100 | 1.00 | ND | Pass |
| Cyfluthrin | 0.0100 | 1.00 | ND | Pass |
| Cypermethrin | 0.0100 | 1.00 | ND | Pass |
| Daminozide | 0.0100 | 1.00 | ND | Pass |
| Diazinon | 0.0100 | 0.200 | ND | Pass |
| Dichlorvos | 0.0100 | 1.00 | ND | Pass |
| Dimethoate | 0.0100 | 0.200 | ND | Pass |
| Dimethomorph | 0.0100 | 1.00 | ND | Pass |

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Final

**Sample #: 17594**

**Cherry Diesel Infused .5g Preroll 2 Pack**

## Pesticides by LCMSMS

**Pass**

**Analysis Date:** 08/18/2025 1:34 pm

| Compound | LOQ (µg/g) | Limits (µg/g) | Result (µg/g) | Status |
|---|---|---|---|---|
| Ethoprophos | 0.0100 | 0.200 | ND | Pass |
| Etofenprox | 0.0100 | 0.400 | ND | Pass |
| Etoxazole | 0.0100 | 0.200 | ND | Pass |
| Fenhexamid | 0.0100 | 1.00 | ND | Pass |
| Fenoxycarb | 0.0100 | 0.200 | ND | Pass |
| Fenpyroximate | 0.0100 | 0.400 | ND | Pass |
| Fipronil | 0.0100 | 0.400 | ND | Pass |
| Flonicamid | 0.0100 | 1.00 | ND | Pass |
| Fludioxonil | 0.0100 | 0.400 | ND | Pass |
| Hexythiazox | 0.0100 | 1.00 | ND | Pass |
| Imazalil | 0.0100 | 0.200 | ND | Pass |
| Imidacloprid | 0.0100 | 0.400 | ND | Pass |
| Indolebutyric Acid | 0.0100 | 1.00 | ND | Pass |
| Kresoxim-methyl | 0.0100 | 0.400 | ND | Pass |
| Malathion | 0.0100 | 0.200 | ND | Pass |
| Metalaxyl | 0.0100 | 0.200 | ND | Pass |
| Methiocarb | 0.0100 | 0.200 | ND | Pass |
| Methomyl | 0.0100 | 0.400 | ND | Pass |
| Methyl Parathion | 0.0100 | 0.200 | ND | Pass |
| Mevinphos | 0.0100 | 1.00 | ND | Pass |
| MGK-264 | 0.0100 | 0.200 | ND | Pass |
| Myclobutanil | 0.0100 | 0.200 | ND | Pass |
| Naled | 0.0100 | 0.500 | ND | Pass |
| Oxamyl | 0.0100 | 1.00 | ND | Pass |
| Paclobutrazol | 0.0100 | 0.400 | ND | Pass |
| Pentachloronitrobenzene | 0.0100 | 1.00 | ND | Pass |

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Final

**Sample #: 17594**

**Cherry Diesel Infused .5g Preroll 2 Pack**

## Pesticides by LCMSMS

**Pass**

**Analysis Date:** 08/18/2025 1:34 pm

| Compound | LOQ (µg/g) | Limits (µg/g) | Result (µg/g) | Status |
|---|---|---|---|---|
| Permethrins, Total | 0.0100 | 0.200 | ND | Pass |
| Phosmet | 0.0100 | 0.200 | ND | Pass |
| Piperonyl Butoxide | 0.0100 | 2.00 | ND | Pass |
| Prallethrin | 0.0100 | 0.200 | ND | Pass |
| Propiconazole | 0.0100 | 0.400 | ND | Pass |
| Propoxur | 0.0100 | 0.200 | ND | Pass |
| Pyrethrins Total | 0.0100 | 1.00 | ND | Pass |
| Pyridaben | 0.0100 | 0.200 | ND | Pass |
| Spinetoram Total | 0.0100 | 1.00 | ND | Pass |
| Spinosad Total | 0.0100 | 0.200 | ND | Pass |
| Spiromesifen | 0.0100 | 0.200 | ND | Pass |
| Spirotetramat | 0.0100 | 0.200 | ND | Pass |
| Spiroxamine | 0.0100 | 0.200 | ND | Pass |
| Tebuconazole | 0.0100 | 0.400 | ND | Pass |
| Thiacloprid | 0.0100 | 0.200 | ND | Pass |
| Thiamethoxam | 0.0100 | 0.200 | ND | Pass |
| Trifloxystrobin | 0.0100 | 0.200 | ND | Pass |

Comment: Pesticides tested by LCMSMS by using P-NY150. Unless otherwise stated, all QC passed.

## Residual Solvents by HS-GC-MS

**Pass**

**Analysis Date:** 08/14/2025 2:50 pm

| Compound | LOQ (ppm) | Limits (ppm) | Result (ppm) | Status |
|---|---|---|---|---|
| 1,2-Dichloroethane | 0.0500 | 5.00 | ND | Pass |
| Acetone | 50.00 | 5000 | ND | Pass |
| Acetonitrile | 50.00 | 410 | ND | Pass |
| Benzene | 0.5000 | 2.00 | ND | Pass |
| Butanes Total | 25.00 | 5000 | ND | Pass |

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# Certificate of Analysis

Final

**Sample #: 17594**

**Cherry Diesel Infused .5g Preroll 2 Pack**

## Residual Solvents by HS-GC-MS

**Pass**

**Analysis Date:** 08/14/2025 2:50 pm

| Compound | LOQ (ppm) | Limits (ppm) | Result (ppm) | Status |
|---|---|---|---|---|
| Chloroform | 0.5000 | 60.0 | ND | Pass |
| Dimethyl Sulfoxide (DMSO) | 50.00 | 5000 | ND | Pass |
| Ethanol | 50.00 | 5000 | 73.24 | Pass |
| Ethyl acetate | 50.00 | 5000 | ND | Pass |
| Ethyl ether | 50.00 | 5000 | ND | Pass |
| Freon | 50.00 | 1000 | ND | Pass |
| Heptane | 50.00 | 5000 | ND | Pass |
| Hexanes Total | 10.00 | 290 | ND | Pass |
| Isopropanol | 50.00 | 5000 | ND | Pass |
| Methanol | 50.00 | 3000 | ND | Pass |
| Methylene chloride | 50.00 | 600 | ND | Pass |
| Pentanes Total | 16.70 | 5000 | ND | Pass |
| Propane | 50.00 | 5000 | ND | Pass |
| Toluene | 50.00 | 890 | ND | Pass |
| Total xylenes | 25.00 | 2170 | ND | Pass |
| Trichloroethane (1,1,1-) | 50.00 | 1500 | ND | Pass |

Comment: Residual Solvents tested by GCMS using P-NY170. Unless otherwise stated, all QC passed. "TIC" stands for Tentatively Identified Compound but not quantitated.

## Mycotoxins by LCMSMS

**Pass**

**Analysis Date:** 08/18/2025 1:34 pm

| Compound | LOQ (µg/g) | Limits (µg/g) | Result (µg/g) | Status |
|---|---|---|---|---|
| Aflatoxin B1 | 0.0050 | 0.020 | ND | Pass |
| Aflatoxin B2 | 0.0050 | 0.020 | ND | Pass |
| Aflatoxin G1 | 0.0050 | 0.020 | ND | Pass |
| Aflatoxin G2 | 0.0050 | 0.020 | ND | Pass |
| Ochratoxin A | 0.0050 | 0.020 | ND | Pass |
| Total Aflatoxin | 0.0050 | 0.020 | ND | Pass |

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KEYSTONE STATE TESTING

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LABWARE GROW
CULTIVATING COMPLIANCE™



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Final

## Sample #: 17594

## Cherry Diesel Infused .5g Preroll 2 Pack

Comment: Mycotoxin contamination tested by LCMSMS using P-NY125. Unless otherwise stated, all QC passed.

## Heavy Metals by ICPMS

**Pass**

**Analysis Date:** 08/14/2025 11:41 am

| Compound | LOQ (µg/g) | Limits (µg/g) | Result (µg/g) | Status |
|---|---|---|---|---|
| Antimony | 0.0100 | 2.00 | ND | Pass |
| Arsenic | 0.00100 | 0.200 | ND | Pass |
| Cadmium | 0.00150 | 0.200 | 0.0231 | Pass |
| Chromium | 0.280 | 110 | ND | Pass |
| Copper | 0.0750 | 30.0 | 5.69 | Pass |
| Lead | 0.00250 | 0.500 | 0.0809 | Pass |
| Mercury | 0.000500 | 0.100 | ND | Pass |
| Nickel | 0.0100 | 5.00 | 0.0429 | Pass |

Comment: Heavy Metal contamination tested by ICPMS using P-NY140. Unless otherwise stated, all QC passed.

## Micro by Petri & qPCR

**Pass**

**Analysis Date:** 08/14/2025 11:28 am

| Compound | LOQ (CFU/g) | Limits (CFU/g) | Result (CFU/g) | Status |
|---|---|---|---|---|
| Aspergillus flavus Qualitative | 1 | 0 | Not Detected | Pass |
| Aspergillus fumigatus Qualitative | 1 | 0 | Not Detected | Pass |
| Aspergillus niger Qualitative | 1 | 0 | Not Detected | Pass |
| Aspergillus terreus Qualitative | 1 | 0 | Not Detected | Pass |
| Salmonella Qualitative | 1 | 0 | Not Detected | Pass |
| Shiga Toxin-Producing E. coli Qualitative | 1 | 0 | Not Detected | Pass |
| Total Aerobic Bacteria | 10 | | 12000 | Pass |
| Total Yeast & Mold | 10 | | 21000 | Pass |

Comment: Microbial contamination tested by Petrifilm plates and qPCR using P-NY120. Unless otherwise stated, all QC passed.
**Due to COA validation limitations:** "Not Detected" = "Absent" and "Detected" = "Presumptive Presence". Acceptance Limits: "0" = "Absence" and "1" = "Presence". "Passed" for an adult-use product implies the results contain less than 1,000,000 cfu/g.

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