

**Nanticoke Hemp Inc.**

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 pete@nanticokegardens.com  
 607-754-5008  
 License #: OCM-PROC-24-000002

**Certificate of Analysis**

Final



Date Released: 10/14/2024 11:24:57AM

Report #: 26126

**Indica R2R 7g Pouch**

Sample #: 6403, Weight: 70.00g, Unit Count:  
 Order #: X241007-0001

Category/Type: Plant, Flower - Cured

Date Collected: 10/7/2024 10:15:00AM

Date Received: 10/7/2024 12:13:50PM

Date Sampled: 10/7/2024 9:46:00AM

Regulator Sample ID: SD051313R2R

Regulator Source Package ID: SD051313R2R

Regulator Batch ID: SD051313R2R

Size: 10000Units, Unit Count:



Total Cannabinoids  
 20.20 %  
 202.0 mg/g



Total THC  
 17.11 %  
 171.1 mg/g



Total CBD  
 0.03368 %  
 0.3368 mg/g



Total Terpenes  
 0.360 %



Moisture  
 10.3 %



Heavy Metals  
 PASS



Microbials  
 PASS



Pesticides  
 PASS



Mycotoxins  
 PASS



Foreign Matter  
 PASS



Water Activity  
 PASS

| Cannabinoids Avg |            |          |         |        | Total Cannabinoids: 20.20 % - 202.0 mg/g                                |  | Date Completed: 10/08/2024 10:27AM |
|------------------|------------|----------|---------|--------|---|--|------------------------------------|
|                  |            |          |         |        | Total THC: 17.11 % - 171.1 mg/g   |  |                                    |
|                  |            |          |         |        | Total CBD: 0.03368 % - 0.3368 mg/g                                      |  |                                    |
| Compound         | CAS#       | LOQ (%)  | %       | mg/g   | Relative Concentration  |  |                                    |
| THCa             | 23978-85-0 | 0.001000 | 14.76   | 147.6  | <div style="width: 100%; height: 10px; background-color: green;"></div> |  |                                    |
| d9-THC           | 1972-08-3  | 0.001000 | 4.169   | 41.69  | <div style="width: 30%; height: 10px; background-color: green;"></div>  |  |                                    |
| CBGa             | 25555-57-1 | 0.001000 | 0.9571  | 9.571  | <div style="width: 5%; height: 10px; background-color: green;"></div>   |  |                                    |
| CBG              | 25654-31-3 | 0.001000 | 0.2183  | 2.183  | <div style="width: 1%; height: 10px; background-color: green;"></div>   |  |                                    |
| THCV             | 31262-37-0 | 0.001000 | 0.04213 | 0.4213 | <div style="width: 0.5%; height: 10px; background-color: green;"></div> |  |                                    |
| CBDa             | 1244-58-2  | 0.001000 | 0.03840 | 0.3840 | <div style="width: 0.5%; height: 10px; background-color: green;"></div> |  |                                    |
| CBN              | 521-35-7   | 0.001000 | 0.01458 | 0.1458 | <div style="width: 0.2%; height: 10px; background-color: green;"></div> |  |                                    |

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Vestal, NY 13850  
 (607)301-0884  
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 Permit #: OCM-CPL-00007

*Kelly Greenland*

Dr. Kelly Greenland, Lab Director





**Sample #: 6403**

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| Compound   | CAS#       | LOQ (%)  | %  | mg/g | Relative Concentration |
|------------|------------|----------|----|------|------------------------|
| CBDV       | 24274-48-4 | 0.001000 | ND | ND   |                        |
| CBD        | 13956-29-1 | 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: 10/14/2024 9:52AM

| Compound           | CAS#       | LOQ (%) | %      | Relative Concentration |
|--------------------|------------|---------|--------|------------------------|
| Ocimene            | 13877-91-3 | 0.1000  | 0.2363 |                        |
| Farnesene          | 502-61-4   | 0.1000  | 0.1239 |                        |
| Beta-myrcene       | 123-35-3   | 0.1000  | ND     |                        |
| Beta-caryophyllene | 87-44-5    | 0.1000  | ND     |                        |
| Limonene           | 5989-27-5  | 0.1000  | ND     |                        |
| Alpha-pinene       | 80-56-8    | 0.1000  | ND     |                        |
| Alpha-humulene     | 6753-98-6  | 0.1000  | ND     |                        |
| Linalool           | 78-70-6    | 0.1000  | ND     |                        |
| Beta-pinene        | 127-91-3   | 0.1000  | ND     |                        |

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**Indica R2R 7g Pouch**

| Compound            | CAS#       | LOQ (%) | %  | Relative Concentration |
|---------------------|------------|---------|----|------------------------|
| Terpinolene         | 586-62-9   | 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 |                        |
| Valencene           | 4630-07-3  | 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.

**Foreign Matter by Microscopy**

**Pass**

**Analysis Date:** 10/07/2024 5:26 pm

| Compound         | LOQ (%) | Limits (%) | Result (%) | Status |
|------------------|---------|------------|------------|--------|
| % Foreign Matter | 0.00100 | 2.0        | ND         | Pass   |
| Mammalian Exreta | 0.00100 | 0.03       | ND         | Pass   |
| Stems            | 0.00100 | 5.0        | ND         | Pass   |

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

**Moisture LWG**

**Pass**

**Analysis Date:** 10/07/2024 5:26 pm

| Compound | LOQ (%) | Limits (%) | Result (%) | Status |
|----------|---------|------------|------------|--------|
| Moisture | 1.2     | 5 - 15     | 10.3       | Pass   |

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

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Sample #: 6403

Indica R2R 7g Pouch

Water Activity

Pass

Analysis Date: 10/07/2024 5:26 pm

| Compound       | LOQ (Aw) | Limits (Aw) | Result (Aw) | Status |
|----------------|----------|-------------|-------------|--------|
| Water Activity | 0.05     | 0.65        | 0.58        | 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: 10/09/2024 1:34 pm

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

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**Sample #: 6403**

**Indica R2R 7g Pouch**

**Pesticides by LCMSMS**

**Pass**

Analysis Date: 10/09/2024 1:34 pm

| Compound           | LOQ (µg/g) | Limits (µg/g) | Result (µg/g) | Status |
|--------------------|------------|---------------|---------------|--------|
| 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   |
| Ethoprophos        | 0.0100     | 0.200         | ND            | Pass   |
| Etofenprox         | 0.0100     | 0.400         | ND            | Pass   |
| Etozazole          | 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   |
| Fonicamid          | 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   |

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**Sample #: 6403**

**Indica R2R 7g Pouch**

**Pesticides by LCMSMS**

**Pass**

Analysis Date: 10/09/2024 1:34 pm

| Compound                | LOQ (µg/g) | Limits (µg/g) | Result (µg/g) | Status |
|-------------------------|------------|---------------|---------------|--------|
| 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   |
| 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.

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**Sample #: 6403**

**Indica R2R 7g Pouch**

**Mycotoxins by LCMSMS**

**Pass**

Analysis Date: 10/09/2024 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   |

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

**Heavy Metals by ICPMS**

**Pass**

Analysis Date: 10/09/2024 4:30 pm

| 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         | 0.0222        | Pass   |
| Chromium | 0.280      | 110           | ND            | Pass   |
| Copper   | 0.0750     | 30.0          | 7.52          | Pass   |
| Lead     | 0.00250    | 0.500         | 0.0743        | Pass   |
| Mercury  | 0.000500   | 0.100         | 0.00533       | Pass   |
| Nickel   | 0.0100     | 5.00          | 0.0714        | Pass   |

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

**Micro by Petri & qPCR**

**Pass**

Analysis Date: 10/10/2024 11:32 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   |

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**Sample #: 6403**

**Indica R2R 7g Pouch**

**Micro by Petri & qPCR**

**Pass**

**Analysis Date: 10/10/2024 11:32 am**

| Compound                                  | LOQ (CFU/g) | Limits (CFU/g) | Result (CFU/g) | Status |
|---|-------------|----------------|----------------|--------|
| Salmonella Qualitative                    | 1           | 0              | Not Detected   | Pass   |
| Shiga Toxin-Producing E. coli Qualitative | 1           | 0              | Not Detected   | Pass   |
| Total Aerobic Bacteria                    | 10          |                | 19000          | Pass   |
| Total Yeast & Mold                        | 10          |                | 31000          | 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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