

**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: 2/12/2025 9:48:20AM

Report #: 43801

**MAC Nilla 3.5g Jar**

Sample #: 10848, Weight: 70.00g, Unit Count:  
 Order #: X250204-0001

Category/Type: Plant, Flower - Cured  
 Date Collected: 2/3/2025 10:00:00AM  
 Date Received: 2/5/2025 9:12:43AM  
 Date Sampled: 2/3/2025 9:30:00AM

Regulator Sample ID: BCDF24K12-18/LBG  
 Regulator Source Package ID: BCDF24K12-18/LBG  
 Regulator Batch ID: BCDF24K12-18/LBG

Size: 10000Units, Unit Count:



**Total Cannabinoids**  
 31.87 %  
 318.7 mg/g



**Total THC**  
 26.70 %  
 266.6 mg/g



**Total CBD**  
 0.09030 %  
 0.9030 mg/g



**Total Terpenes**  
 1.774 %



**Moisture**  
 8.8 %



**Heavy Metals**  
 PASS



**Microbials**  
 PASS



**Pesticides**  
 PASS



**Mycotoxins**  
 PASS



**Foreign Matter**  
 PASS



**Water Activity**  
 PASS

Cannabinoids Avg					Total Cannabinoids: <b>31.87 % - 318.7 mg/g</b>		Date Completed: 02/07/2025 9:51AM	
					Total THC: <b>26.70 % - 266.6 mg/g</b>			
					Total CBD: <b>0.09030 % - 0.9030 mg/g</b>			
Compound	CAS#	LOQ (%)	%	mg/g	Relative Concentration			
THCa	23978-85-0	0.001000	29.70	297.0	<div style="width: 100%; height: 10px; background-color: green;"></div>			
CBGa	25555-57-1	0.001000	1.351	13.51	<div style="width: 5%; height: 10px; background-color: green;"></div>			
d9-THC	1972-08-3	0.001000	0.5944	5.944	<div style="width: 2%; height: 10px; background-color: green;"></div>			
CBDa	1244-58-2	0.001000	0.1030	1.030	<div style="width: 1%; height: 10px; background-color: green;"></div>			
CBG	25654-31-3	0.001000	0.1010	1.010	<div style="width: 1%; height: 10px; background-color: green;"></div>			
d10/S9-THC	95588-87-7	0.001000	0.02446	0.2446	<div style="width: 0.5%; height: 10px; background-color: green;"></div>			
CBDV	24274-48-4	0.001000	ND	ND				

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 Permit #: OCM-CPL-00007

*Kelly Greenland*

Dr. Kelly Greenland, Lab Director





**Sample #: 10848**

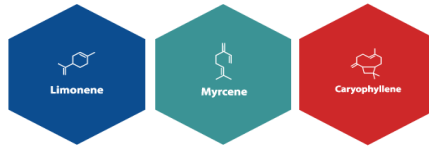
**MAC Nilla 3.5g Jar**

Compound	CAS#	LOQ (%)	%	mg/g	Relative Concentration
THCV	31262-37-0	0.001000	ND	ND	
CBD	13956-29-1	0.001000	ND	ND	
CBN	521-35-7	0.001000	ND	ND	
d8-THC	5957-75-5	0.001000	ND	ND	
d10/R9-THC	95543-62-7	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: 02/06/2025 11:32AM



Compound	CAS#	LOQ (%)	%	Relative Concentration
Limonene	5989-27-5	0.1000	0.6486	<div style="width: 64.86%;"></div>
Beta-myrcene	123-35-3	0.1000	0.3745	<div style="width: 37.45%;"></div>
Beta-caryophyllene	87-44-5	0.1000	0.3642	<div style="width: 36.42%;"></div>
Alpha-humulene	6753-98-6	0.1000	0.1484	<div style="width: 14.84%;"></div>
Farnesene	502-61-4	0.1000	0.1345	<div style="width: 13.45%;"></div>
Beta-pinene	127-91-3	0.1000	0.1041	<div style="width: 10.41%;"></div>
Results based on dry weight				
Alpha-pinene	80-56-8	0.1000	ND	
Linalool	78-70-6	0.1000	ND	

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**Sample #: 10848**

**MAC Nilla 3.5g Jar**

Compound	CAS#	LOQ (%)	%	Relative Concentration
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	
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: 02/06/2025 5:02 pm

Compound	LOQ (%)	Limits (%)	Result (%)	Status
% Foreign Matter	0.00100	2.0	ND	Pass
Mammalian Excreta	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: 02/06/2025 5:02 pm

Compound	LOQ (%)	Limits (%)	Result (%)	Status
Moisture	1.2	5 - 15	8.8	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 #: 10848

MAC Nilla 3.5g Jar

Water Activity

Pass

Analysis Date: 02/06/2025 5:02 pm

Compound	LOQ (Aw)	Limits (Aw)	Result (Aw)	Status
Water Activity	0.05	0.65	0.39	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: 02/11/2025 6:00 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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Pesticides by LCMSMS

Pass

Analysis Date: 02/11/2025 6:00 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
Etoazole	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 #: 10848**

**MAC Nilla 3.5g Jar**

**Pesticides by LCMSMS**

**Pass**

Analysis Date: 02/11/2025 6:00 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 #: 10848**

**MAC Nilla 3.5g Jar**

**Mycotoxins by LCMSMS**

**Pass**

Analysis Date: 02/11/2025 6:00 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: 02/06/2025 11:29 am

Compound	LOQ (µg/g)	Limits (µg/g)	Result (µg/g)	Status
Antimony	0.0100	2.00	0.0134	Pass
Arsenic	0.00100	0.200	0.0242	Pass
Cadmium	0.00150	0.200	0.0116	Pass
Chromium	0.280	110	1.39	Pass
Copper	0.0750	30.0	3.15	Pass
Lead	0.00250	0.500	0.0703	Pass
Mercury	0.000500	0.100	ND	Pass
Nickel	0.0100	5.00	0.423	Pass

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

**Micro by Petri & qPCR**

**Pass**

Analysis Date: 02/05/2025 11:38 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 #: 10848**

**MAC Nilla 3.5g Jar**

**Micro by Petri & qPCR**

**Pass**

**Analysis Date: 02/05/2025 11:38 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		5000	Pass
Total Yeast & Mold	10		2000	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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