

**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: 5/9/2024 9:53:21AM

Report #: 15882

**SODK 3.5g Jar**

Sample #: 4752, Weight: 45.50g, Unit Count:

Order #: X240502-0001

Category/Type: Plant, Flower - Cured

Date Collected: 5/2/2024 12:21:13PM

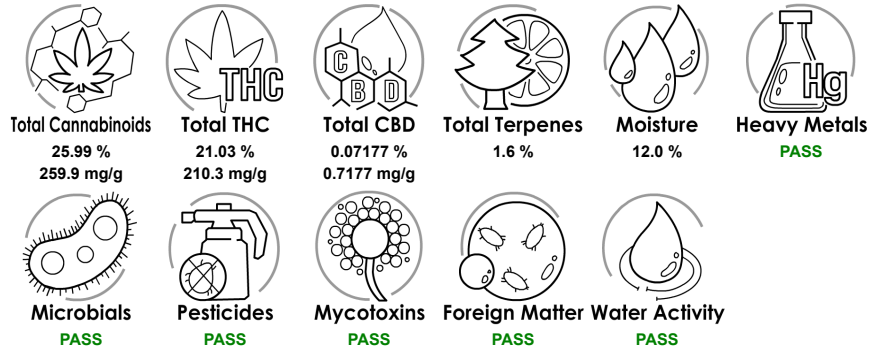
Date Received: 5/2/2024 2:20:22PM

Regulator Sample ID: Lot #100201

Regulator Source Package ID: Lot #100201

Regulator Batch ID: Lot #100201

Size: 3200Units, Unit Count:



**Potency Analysis by HPLC**

Total Cannabinoids: **25.99 % - 259.9 mg/g**  
 Total THC: **21.03 % - 210.3 mg/g**  
 Total CBD: **0.07177 % - 0.7177 mg/g**

Date Completed: 05/07/2024 11:30AM

Compound	CAS#	LOQ (%)	%	mg/g	Relative Concentration
THCa	23978-85-0	0.001000	23.46	234.6	[Bar]
CBGa	25555-57-1	0.001000	1.815	18.15	[Bar]
d9-THC	1972-08-3	0.001000	0.4545	4.545	[Bar]
CBG	25654-31-3	0.001000	0.1757	1.757	[Bar]
CBDa	1244-58-2	0.001000	0.08184	0.8184	[Bar]
d8-THC	5957-75-5	0.001000	ND	ND	[Bar]
d10/R9-THC	95543-62-7	0.001000	ND	ND	[Bar]
d10/S9-THC	95588-87-7	0.001000	ND	ND	[Bar]
THCV	31262-37-0	0.001000	ND	ND	[Bar]
CBD	13956-29-1	0.001000	ND	ND	[Bar]
CBDV	24274-48-4	0.001000	ND	ND	[Bar]
CBC	20675-51-8	0.001000	ND	ND	[Bar]
CBN	521-35-7	0.001000	ND	ND	[Bar]

**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.

d8-THC is an abbreviation for delta-8 tetrahydrocannabinol. d9-THC is an abbreviation for delta-9 tetrahydrocannabinol.

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*Kelly Greenland*

Dr. Kelly Greenland, Lab Director





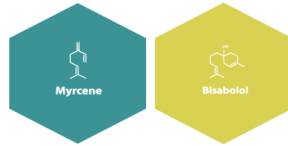
**Sample #: 4752**

**SODK 3.5g Jar**

Compound	CAS#	LOQ (%)	%	mg/g	Relative Concentration
THCa		0.001000	23.46	234.6	<div style="width: 23.46%;"></div>
CBGa		0.001000	1.815	18.15	<div style="width: 1.815%;"></div>
d9-THC		0.001000	0.4545	4.545	<div style="width: 0.4545%;"></div>
CBG		0.001000	0.1757	1.757	<div style="width: 0.1757%;"></div>
CBDa		0.001000	0.08184	0.8184	<div style="width: 0.08184%;"></div>
CBDV		0.001000	ND	ND	
THCV		0.001000	ND	ND	
CBD		0.001000	ND	ND	
CBN		0.001000	ND	ND	
d8-THC		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		0.001000	ND	ND	

**Terpenes by HS-GC-MS**

Date Completed: 05/05/2024 1:12PM



Compound	CAS#	LOQ (%)	%	Relative Concentration
Beta-myrcene	123-35-3	0.1000	0.9168	<div style="width: 0.9168%;"></div>
Ocimene	13877-91-3	0.1000	0.3617	<div style="width: 0.3617%;"></div>
Farnesene	502-61-4	0.1000	0.1950	<div style="width: 0.1950%;"></div>
Alpha-bisabolol	515-69-5	0.1000	0.1332	<div style="width: 0.1332%;"></div>
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	

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Dr. Kelly Greenland, Lab Director





**Sample #: 4752**

**SODK 3.5g Jar**

Compound	CAS#	LOQ (%)	%	Relative Concentration
Linalool	78-70-6	0.1000	ND	
Beta-pinene	127-91-3	0.1000	ND	
Terpinolene	586-62-9	0.1000	ND	
Borneol	464-43-7	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	
Guaial	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	
Camphor	464-49-3	0.1000	ND	
3-Carene	13466-78-9	0.1000	ND	
Alpha-cedrene	469-61-4	0.1000	ND	
Cedrol	77-53-2	0.1000	ND	
Eucalyptol	470-82-6	0.1000	ND	
Fenchone	1195-79-5	0.1000	ND	
Gamma-terpinene	99-85-4	0.1000	ND	
Geranyl Acetate	105-87-3	0.1000	ND	
Isopulegol	89-79-2	0.1000	ND	
Menthol	15356-70-4	0.1000	ND	
Nerol	106-25-2	0.1000	ND	
Nerolidol		0.1000	ND	
Pulegone	89-82-7	0.1000	ND	

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Sample #: 4752

SODK 3.5g Jar

Compound	CAS#	LOQ (%)	%	Relative Concentration
Sabinene	3387-41-5	0.1000	ND	
Sabinene Hydrate	546-79-2	0.1000	ND	

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

**Foreign Matter by Microscopy** Analysis Date: 05/03/2024 5:32 pm

**Pass**

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** Analysis Date: 05/03/2024 5:32 pm

**Pass**

Compound	LOQ (%)	Limits (%)	Result (%)	Status
Moisture	1.2	5 - 15	12.0	Pass

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

**Water Activity** Analysis Date: 05/03/2024 5:32 pm

**Pass**

Compound	LOQ (Aw)	Limits (Aw)	Result (Aw)	Status
Water Activity	0.05	0.65	0.44	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** Analysis Date: 05/06/2024 1:46 pm

**Pass**

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

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Sample #: 4752

SODK 3.5g Jar

Pesticides by LCMSMS

Pass

Analysis Date: 05/06/2024 1:46 pm

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

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**Sample #: 4752**

**SODK 3.5g Jar**

**Pesticides by LCMSMS**

**Pass**

Analysis Date: 05/06/2024 1:46 pm

Compound	LOQ (µg/g)	Limits (µg/g)	Result (µg/g)	Status
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
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
Permethrins, Total	0.0100	0.200	ND	Pass
Phosmet	0.0100	0.200	ND	Pass

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**Sample #: 4752**

**SODK 3.5g Jar**

**Pesticides by LCMSMS**

**Pass**

Analysis Date: 05/06/2024 1:46 pm

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

**Mycotoxins by LCMSMS**

**Pass**

Analysis Date: 05/06/2024 1:46 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.

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**Sample #: 4752**

**SODK 3.5g Jar**

**Heavy Metals by ICPMS**

**Pass**

Analysis Date: 05/06/2024 10:25 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	0.300	0.00987	Pass
Chromium	0.280	110	ND	Pass
Copper	0.0750	30.0	5.77	Pass
Lead	0.00250	0.500	0.0218	Pass
Mercury	0.000500	0.100	ND	Pass
Nickel	0.0100	5.00	ND	Pass

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

**Micro by Petri & qPCR**

**Pass**

Analysis Date: 05/08/2024 8:43 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		9000	Pass
Total Yeast & Mold	10		36000	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".

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