

Nanticoke Hemp Inc.

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

Certificate of Analysis

Final



Date Released: 10/9/2024 11:14:40AM

Report #: 25648

Cinnamon 5mg Mints

Sample #: 6263, Weight: 64.00g, Unit Count:
 Order #: X241001-0001

Category/Type: Ingestible, Edibles
 Date Collected: 9/30/2024 10:06:00AM
 Date Received: 10/1/2024 10:05:42AM
 Date Sampled: 9/30/2024 9:41:00AM

Regulator Sample ID: 006-001C
 Regulator Source Package ID: 006-001C
 Regulator Batch ID: 006-001C

Size: 10000Units, Unit Count:



Total Cannabinoids
 6.259 mg/svg
 7.823 mg/g



Total THC
 5.715 mg/svg
 7.142 mg/g



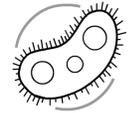
Total CBD
 0.01303 mg/svg
 0.01628 mg/g



Total Terpenes
 0.000 %



Heavy Metals
 PASS



Microbials
 PASS



Residual Solvents
 PASS



Pesticides
 PASS



Mycotoxins
 PASS



Water Activity
 PASS

Potency Analysis by HPLC

Total Cannabinoids: **6.259 mg/svg - 7.823 mg/g**
 Total THC: **5.715 mg/svg - 7.142 mg/g**
 Total CBD: **0.01303 mg/svg - 0.01628 mg/g**

Date Completed: 10/08/2024 4:03PM

Compound	CAS#	LOQ (mg/svg)	mg/svg	mg/g	Relative Concentration
d9-THC	1972-08-3	0.01000	5.612	7.014	<div style="width: 100%; height: 10px; background-color: green;"></div>
CBG	25654-31-3	0.01000	0.2640	0.3300	<div style="width: 10%; height: 10px; background-color: green;"></div>
THCa	23978-85-0	0.01000	0.1172	0.1465	<div style="width: 5%; height: 10px; background-color: green;"></div>
CBN	521-35-7	0.01000	0.1110	0.1388	<div style="width: 5%; height: 10px; background-color: green;"></div>
CBC	20675-51-8	0.01000	0.06672	0.08340	<div style="width: 2%; height: 10px; background-color: green;"></div>
THCV	31262-37-0	0.01000	0.05066	0.06332	<div style="width: 2%; height: 10px; background-color: green;"></div>

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Kelly Greenland

Dr. Kelly Greenland, Lab Director





Sample #: 6263

Cinnamon 5mg Mints

Compound	CAS#	LOQ (mg/svg)	mg/svg	mg/g	Relative Concentration
CBGa	25555-57-1	0.01000	0.02432	0.03039	
CBD	13956-29-1	0.01000	0.01303	0.01628	
d8-THC	5957-75-5	0.01000	ND	ND	
d10/R9-THC	95543-62-7	0.01000	ND	ND	
d10/S9-THC	95588-87-7	0.01000	ND	ND	
CBDa	1244-58-2	0.01000	ND	ND	
CBDV	24274-48-4	0.01000	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: 10/02/2024 11:15AM

Compound	CAS#	LOQ (%)	%	Relative Concentration
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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Sample #: 6263

Cinnamon 5mg Mints

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	
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	
Farnesene	502-61-4	0.1000	ND	

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

Water Activity

Pass

Analysis Date: 10/03/2024 10:53 am

Compound	LOQ (Aw)	Limits (Aw)	Result (Aw)	Status
Water Activity	0.05	0.85	0.46	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: 10/04/2024 11:15 am

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

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Sample #: 6263

Cinnamon 5mg Mints

Pesticides by LCMSMS

Pass

Analysis Date: 10/04/2024 11:15 am

Compound	LOQ (µg/g)	Limits (µg/g)	Result (µg/g)	Status
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
Etoxazole	0.0100	0.200	ND	Pass
Fenhexamid	0.0100	1.00	ND	Pass

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Pesticides by LCMSMS

Pass

Analysis Date: 10/04/2024 11:15 am

Compound	LOQ (µg/g)	Limits (µg/g)	Result (µg/g)	Status
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
Metaxalyl	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
Piperonyl Butoxide	0.0100	2.00	ND	Pass
Prallethrin	0.0100	0.200	ND	Pass

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Pesticides by LCMSMS

Pass

Analysis Date: 10/04/2024 11:15 am

Compound	LOQ (µg/g)	Limits (µg/g)	Result (µg/g)	Status
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: 10/02/2024 10:57 am

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
Chloroform	0.5000	60.0	ND	Pass
Dimethyl Sulfoxide (DMSO)	50.00	5000	ND	Pass
Ethanol	50.00	5000	ND	Pass
Ethyl acetate	50.00	5000	ND	Pass

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Residual Solvents by HS-GC-MS

Pass

Analysis Date: 10/02/2024 10:57 am

Compound	LOQ (ppm)	Limits (ppm)	Result (ppm)	Status
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: 10/04/2024 11:15 am

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: 10/07/2024 12:19 pm

Compound	LOQ (µg/g)	Limits (µg/g)	Result (µg/g)	Status
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Heavy Metals by ICPMS

Pass

Analysis Date: 10/07/2024 12:19 pm

Compound	LOQ (µg/g)	Limits (µg/g)	Result (µg/g)	Status
Antimony	0.0100	120	ND	Pass
Arsenic	0.00100	1.50	ND	Pass
Cadmium	0.00150	0.500	ND	Pass
Chromium	0.280	1100	ND	Pass
Copper	0.0750	300	ND	Pass
Lead	0.00250	0.500	0.0152	Pass
Mercury	0.000500	3.00	ND	Pass
Nickel	0.0100	20.0	0.0379	Pass

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

Micro by Petri & qPCR

Pass

Analysis Date: 10/03/2024 10:02 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	10000	<LOQ	Pass
Total Yeast & Mold	10	1000	<LOQ	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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