



**Phyto-farma Labs**  
 49 John Hicks Drive  
 Warwick, NY 10990  
 Permit#: OCM-CPL-2022-00004  
 Phone: 845-988-0937

Compliance

# Certificate Of Analysis

## Results Summary

### Average Cannabinoid Profile

#### Terpenes

Trace Metals PASS

Mycotoxins PASS

Pesticides LC PASS

Pesticides GC PASS

Residual Solvents PASS

Microbial Impurities (MDG for  
 STEC, Salmonella, Asp sp.) PASS

Microbial Impurities (Total  
 Aerobic Bacteria/CDP-TC) PASS

Microbial Impurities (Total  
 Yeast and Mold/CDP-YMR) PASS

**Client Name:** NG Growers Inc. dba Nanticoke Gardens;  
 Nanticoke Hemp Inc.

**Contact Name:** Peter Shafer

**Address:** 1543 Union Center Maine Highway  
 Endicott, NY 13760

**Phone:** 607-754-5008

**License Number:** OCM-AUCC-22-000079/OCM-  
 AUCP-22-000035

**Sample Description:** Critical Orange Punch 1.0g Full  
 Ceramic 510 Cart

**Lot Number:** 079-067

**Regulatory Category:** Adult Use

**Sample Matrix:** Extracted

**Delivery Method:** Inhalation

**Sample Type:** Concentrate

**Sample Subtype:** Sauce

**Sampling Site:** 2095 NY-26, Endicott, NY 13760

**Sampling Date and Time:** 02/29/2024 11:18 AM

# Certificate Of Analysis

## Average Cannabinoid Profile

**Date analyzed:** 03/04/2024

**Method:** NY.SOP.T.40.260

**Analyst:** Stephanie Knapp

**Date started:** 03/01/2024 08:54 PM

Analyte	LOQ (µg/mL)	Average (% w/w)	Average (mg/ serving)	Homogeneity Pass/ Fail†
Cannabichromene (CBC)	0.5	1.42	14.21	
Cannabidiol (CBD)	0.5	0.19	1.91	
Cannabidivarin (CBDV)	0.5	<LOQ	<LOQ	
Cannabigerol (CBG)	0.5	2.69	26.91	
Cannabigerolic acid (CBGA)	0.5	0.25	2.48	
Cannabinadiolic acid (CBDA)	0.5	<LOQ	<LOQ	
Cannabinol (CBN)	0.5	1.23	12.28	
Tetrahydrocannabinolic acid (THCA)	0.5	2.84	28.44	
Tetrahydrocannabivarin (THCV)	0.5	0.38	3.76	
Tetrahydrocannabivarinic Acid (THCVA)	0.5	<LOQ	<LOQ	
Δ10-THC-RR	0.5	<LOQ	<LOQ	
Δ10-THC-RS	0.5	<LOQ	<LOQ	
Δ8-THC	0.5	<LOQ	<LOQ	
Δ9-THC	0.5	87.23	872.31	
Total Active Cannabidiol (CBD)	-	0.19	1.91	
Total Active Cannabigerol (CBG)	-	2.91	29.09	
Total Active Tetrahydrocannabinol (THC)	-	89.72	897.25	<b>PASS</b>
Total Active Tetrahydrocannabivarin (THCV)	-	0.38	3.76	
Total Active Cannabinoids	-	95.85	958.5	
			Overall Status	<b>PASS</b>

†Concentration of individual samples must be ±25% of the mean concentration for marketed cannabinoids

Note: Total Active CBD = CBD + (0.877 x CBDA); Total Active CBG = CBG + (0.878 x CBGA); Total Active THC = (Δ9THC + Δ8THC + Δ10THC-RS + Δ10THC-RR) + (0.877 x THCA); Total Active THCV = THCV + (0.867 x THCVA)

Analyzed by HPLC

# Certificate Of Analysis

## Terpenes

**Date analyzed:** 03/05/2024

**Method:** NY.SOP.T.40.090

**Analyst:** Stephanie Knapp

**Date started:** 02/29/2024 03:31 PM

Analyte	Result (%w/w)	LOQ
3-Carene	<LOQ	0.02
alpha-Bisabolol	0.04	0.02
alpha-Humulene	0.14	0.03
alpha-Phellandrene	<LOQ	0.03
alpha-Pinene	<LOQ	0.02
alpha-Terpinene	<LOQ	0.01
alpha-Terpineol	0.09	0.02
beta-Myrcene	<LOQ	0.03
beta-Pinene	<LOQ	0.03
Borneol	<LOQ	0.02
Camphene	<LOQ	0.02
Camphor	<LOQ	0.02
Caryophyllene oxide	0.06	0.03
Cedrene	<LOQ	0.02
Cedrol	<LOQ	0.03
cis-Nerolidol	<LOQ	0.03
cis-Ocimene	<LOQ	0.03
Eucalyptol	<LOQ	0.04
Farnesene	0.05	0.04
Fenchol	0.04	0.02
Fenchone	<LOQ	0.03
gamma-Terpinene	<LOQ	0.02
gamma-Terpineol	<LOQ	0.02
Geraniol	<LOQ	0.02
Geranyl Acetate	<LOQ	0.03



**Phyto-farma Labs**  
 49 John Hicks Drive  
 Warwick, NY 10990  
 Permit#: OCM-CPL-2022-00004  
 Phone: 845-988-0937

Compliance

# Certificate Of Analysis

Guaiol	0.04	0.03
Isoborneol	0.03	0.02
Isopulegol	<LOQ	0.03
Limonene	<LOQ	0.04
Linalool	<LOQ	0.02
Menthol	<LOQ	0.02
Nerol	<LOQ	0.03
Pulegone	<LOQ	0.03
Sabinene	<LOQ	0.02
Sabinene Hydrate	<LOQ	0.02
Terpinolene	<LOQ	0.02
trans-b-Ocimene	<LOQ	0.02
trans-Caryophyllene	0.38	0.03
trans-Nerolidol	0.04	0.04
Valencene	<LOQ	0.03
TOTAL (%)	0.91	Overall Status (PASS/FAIL)
Inhalable Limit (%)	10	<b>PASS</b>

Analyzed by GCMS

V151.15



**Phyto-farma Labs**  
 49 John Hicks Drive  
 Warwick, NY 10990  
 Permit#: OCM-CPL-2022-00004  
 Phone: 845-988-0937

Compliance

# Certificate Of Analysis

## Trace Metals

**PASS**

**Date analyzed:** 03/05/2024

**Method:** NY.SOP.T.40.050

**Analyst:** Moni Kaneti

**Date started:** 03/05/2024 07:28 AM

Analyte	Result (µg/g)	LOQ	Allowable Limit	Pass/Fail
Antimony (Sb)	<LOQ	0.13	2	PASS
Arsenic (As)	<LOQ	0.07	0.2	PASS
Cadmium (Cd)	<LOQ	0.06	0.3	PASS
Chromium (Cr)	0.903	0.36	110	PASS
Copper (Cu)	1.848	0.39	30	PASS
Lead (Pb)	<LOQ	0.08	0.5	PASS
Mercury (Hg)	<LOQ	0.01	0.1	PASS
Nickel (Ni)	0.136	0.11	2	PASS
Overall Status				PASS

Analyzed by ICP-MS

V114.36



**Phyto-farma Labs**  
 49 John Hicks Drive  
 Warwick, NY 10990  
 Permit#: OCM-CPL-2022-00004  
 Phone: 845-988-0937

Compliance

# Certificate Of Analysis

## Mycotoxins

**PASS**

**Date analyzed:** 03/05/2024

**Method:** NY.SOP.T.40.180

**Analyst:** Destiny Ribadeneyra

**Date started:** 03/04/2024 09:07 AM

Analyte	Result (µg/g)	LOQ (µg/g)	Allowable Limit	Pass/Fail
Aflatoxin B1	<LOQ	0.001	0.02	PASS
Aflatoxin B2	<LOQ	0.002	0.02	PASS
Aflatoxin G1	<LOQ	0.001	0.02	PASS
Aflatoxin G2	<LOQ	0.002	0.02	PASS
Sum of Aflatoxins	0	-	0.02	PASS
Ochratoxin A	<LOQ	0.002	0.02	PASS
			Overall Status	PASS

*Analysis Instrument*      30 LC-MS TQ

V141.7

# Certificate Of Analysis

## Pesticides LC

**PASS**

**Date analyzed:** 03/04/2024

**Method:** NY.SOP.T.040.270

**Analyst:** Stephanie Knapp

**Date started:** 02/29/2024 03:20 PM

Analyte	Result (µg/g)	LOQ	Allowable Limit	Pass/Fail
Abamectin	<LOQ	0.02	0.5	PASS
Acephate	<LOQ	0.01	0.4	PASS
Acequinocyl	<LOQ	0.02	2	PASS
Acetamiprid	<LOQ	0.01	0.2	PASS
Aldicarb	<LOQ	0.01	0.4	PASS
Azadirachtin	<LOQ	0.02	1	PASS
Azoxystrobin	<LOQ	0.01	0.2	PASS
Bifenazate	<LOQ	0.01	0.2	PASS
Bifenthrin	<LOQ	0	0.2	PASS
Boscalid	<LOQ	0.01	0.4	PASS
Carbaryl	<LOQ	0.01	0.2	PASS
Carbofuran	<LOQ	0.01	0.2	PASS
Chlorantraniliprole	<LOQ	0.01	0.2	PASS
Chlormequat chloride	<LOQ	0.02	1	PASS
Chlorpyrifos	<LOQ	0.01	0.2	PASS
Clofentezine	<LOQ	0.01	0.2	PASS
Daminozide	<LOQ	0	1	PASS
Diazinon	<LOQ	0.01	0.2	PASS
Dichlorvos	<LOQ	0.01	1	PASS
Dimethoate	<LOQ	0.01	0.2	PASS
Dimethomorph	<LOQ	0.01	1	PASS
Ethoprophos	<LOQ	0.01	0.2	PASS
Etofenprox	<LOQ	0	0.4	PASS
Etoxazole	<LOQ	0.01	0.2	PASS
Fenhexamid	<LOQ	0.01	1	PASS

# Certificate Of Analysis

Fenoxycarb	<LOQ	0.01	0.2	PASS
Fenpyroximate	<LOQ	0	0.4	PASS
Flonicamid	<LOQ	0.01	1	PASS
Fludioxonil	<LOQ	0.02	0.4	PASS
Hexythiazox	<LOQ	0	1	PASS
Imidacloprid	<LOQ	0.01	0.4	PASS
Indole-3-butyric acid	<LOQ	0.01	1	PASS
Kresoxim methyl	<LOQ	0.01	0.4	PASS
Malathion	<LOQ	0.01	0.2	PASS
Metalaxyl	<LOQ	0.01	0.2	PASS
Methiocarb	<LOQ	0	0.2	PASS
Methomyl	<LOQ	0.01	0.4	PASS
Mevinphos	<LOQ	0.02	1	PASS
MGK-264	<LOQ	0.01	0.2	PASS
Myclobutanil	<LOQ	0.01	0.2	PASS
Naled	<LOQ	0	0.5	PASS
Oxamyl	<LOQ	0.01	1	PASS
Paclobutrazol	<LOQ	0.01	0.4	PASS
Permethrins, Total	<LOQ	0.01	0.2	PASS
Phosmet	<LOQ	0.01	0.2	PASS
Piperonyl Butoxide	<LOQ	0.01	2	PASS
Prallethrin	<LOQ	0.01	0.2	PASS
Propiconazole	<LOQ	0.01	0.4	PASS
Propoxur	<LOQ	0.01	0.2	PASS
Pyrethrins	<LOQ	0.01	1	PASS
Pyridaben	<LOQ	0.01	0.2	PASS
Spinetoram, Total	<LOQ	0	1	PASS
Spinosad, Total	<LOQ	0.01	0.2	PASS
Spiromesifen	<LOQ	0.01	0.2	PASS
Spirotetramat	<LOQ	0.01	0.2	PASS
Spiroxamine	<LOQ	0	0.2	PASS





**Phyto-farma Labs**  
 49 John Hicks Drive  
 Warwick, NY 10990  
 Permit#: OCM-CPL-2022-00004  
 Phone: 845-988-0937

Compliance

# Certificate Of Analysis

Tebuconazole	<LOQ	0.01	0.4	<b>PASS</b>
Thiacloprid	<LOQ	0.01	0.2	<b>PASS</b>
Thiamethoxam	<LOQ	0.01	0.2	<b>PASS</b>
Overall Status				<b>PASS</b>

Analysis Instrument      30 Agilent LS-MS TQ

V144.10

## Pesticides GC

**PASS**

**Date analyzed:** 03/05/2024      **Method:** NYS.SOP.T.040.271      **Analyst:** Destiny Ribadeneyra

**Date started:** 02/29/2024 03:38 PM

Analyte	Result (µg/g)	LOQ (µg/g)	Allowable Limit	Pass/Fail
Captan	<LOQ	0.3	1	<b>PASS</b>
Chlordane	<LOQ	0.07	1	<b>PASS</b>
Chlorfenapyr	<LOQ	0.1	1	<b>PASS</b>
Coumaphos	<LOQ	0.19	1	<b>PASS</b>
Cyfluthrin	<LOQ	0.11	1	<b>PASS</b>
Cypermethrin	<LOQ	0.24	1	<b>PASS</b>
Fipronil	<LOQ	0.17	0.4	<b>PASS</b>
Imazalil	<LOQ	0.17	0.2	<b>PASS</b>
Methyl parathion	<LOQ	0.09	0.2	<b>PASS</b>
Pentachloronitrobenzene	<LOQ	0.17	1	<b>PASS</b>
Trifloxystrobin	<LOQ	0.11	0.2	<b>PASS</b>
Overall Status				<b>PASS</b>

Analysis Instrument      141 GC/TQ

V177.8

This is a Phyto-farma certification that relates only to the material tested and shall not be reproduced, unless in its entirety, without written approval from Phyto-farma. Test results are confidential, unless explicitly waived. All Pass/Fail results please reference state regulations released on 04.JAN.2023. Pass/Fail results do not use uncertainty, but is available upon request. The product represented has been tested by Phyto-farma Labs using validated scientific methodologies. Note action levels are state determined thresholds for human safety and consumption. Acronym Definitions: ND - Not Detected, LOQ - Limit of Quantification, ULOQ - Upper Limit of Quantification; are terms used to describe the reliably measured smallest and largest concentrations. <LOQ\* denotes the result is above detection limit, but below quantifiable limit. CFU - Colony Forming Units. Cannabis Product Sampling SOP# SOP.T.20.010.

# Certificate Of Analysis

## Residual Solvents

**PASS**

**Date analyzed:** 03/06/2024

**Method:** NYS.SOP.T.040.272

**Analyst:** Stephanie Knapp

**Date started:** 02/29/2024 03:30 PM

Analyte	Result (µg/g)	LOQ	Allowable Limit	Pass/Fail
1,2-Dichloroethane (Ethylene dichloride, Ethylene chloride)	<LOQ	0.67	5	PASS
2-Propanol (Isopropanol, Isopropyl alcohol)	<LOQ	21.68	5000	PASS
Acetone (2-Propanone)	<LOQ	15.9	5000	PASS
Acetonitrile	<LOQ	0.85	410	PASS
Benzene	<LOQ	0.71	2	PASS
Butanes, Total	<LOQ	0.35	5000	PASS
Chloroform	<LOQ	0.54	60	PASS
Dichloromethane (Methylene chloride)	<LOQ	1.07	600	PASS
Dimethyl sulfoxide (DMSO)	<LOQ	0.66	5000	PASS
Ethanol (Ethyl alcohol)	<LOQ	10.02	5000	PASS
Ethyl acetate (Acetic acid ethyl ester)	<LOQ	18.45	5000	PASS
Ethyl ether (Diethyl ether, 1,1'-Oxybisethane)	<LOQ	0.44	5000	PASS
Heptane (n-Heptane)	<LOQ	0.36	5000	PASS
Hexanes, Total	<LOQ	0.39	290	PASS
Methanol (Methyl alcohol)	<LOQ	2.47	3000	PASS
Pentanes, Total	<LOQ	0.37	5000	PASS
Propane	<LOQ	0.53	5000	PASS
Toluene (Methylbenzene)	<LOQ	2.34	890	PASS
Trichloroethane (1,1,1-)	<LOQ	0.41	1500	PASS
Xylenes, Total (ortho-, meta-, para-)	<LOQ	2.65	2170	PASS
Overall Status				PASS

Analyzed by GCMS

V148.12

# Certificate Of Analysis

## Microbial Impurities (MDG for STEC, Salmonella, Asp sp.)

**PASS**

Date analyzed: 03/05/2024

Method: NYS.SOP.T.40.273

Analyst: Lindsey Vento

Date started: 02/29/2024 03:49 PM

Microbial Species	Microbial Type	Detection Status	Pass/Fail
Shiga toxin-producing Escherichia coli	Bacteria	Not Detected	PASS
Salmonella species	Bacteria	Not Detected	PASS
Aspergillus flavus	Fungal	Not Detected	PASS
Aspergillus niger	Fungal	Not Detected	PASS
Aspergillus terreus	Fungal	Not Detected	PASS
Aspergillus fumigatus	Fungal	Not Detected	PASS
		Overall Status	PASS

Analysis Instrument

125 Agilent AriaMx Real-time PCR System

V182.3

## Microbial Impurities (Total Aerobic Bacteria/CDP-TC)

**PASS**

Date analyzed: 03/04/2024

Method: NYS.SOP.T.040.200

Analyst: Kristy Lee

Date started: 02/29/2024 04:05 PM

Result (CFU/g)	LOQ	Allowable Limit	Pass/Fail
<LOQ	5	10000	PASS

Analysis Instrument

87 Colony Counter

V149.8



**Phyto-farma Labs**  
 49 John Hicks Drive  
 Warwick, NY 10990  
 Permit#: OCM-CPL-2022-00004  
 Phone: 845-988-0937

Compliance

# Certificate Of Analysis

## Microbial Impurities (Total Yeast and Mold/CDP-YMR)

**PASS**

Date analyzed: 03/04/2024

Method: NYS.SOP.T.040.200

Analyst: Destiny Ribadeneyra

Date started: 02/29/2024 04:06 PM

Microbial Species	Result (cfu/g)	LOQ	Allowable Limit	Pass/Fail
Mold Count	<LOQ	5	1000	PASS
Yeast Count	<LOQ	5	1000	PASS
Total Yeast and Mold	<LOQ		1000	PASS
			Overall Status	PASS
Analysis Instrument	87 Colony Counter			

V150.10

Sample Comment: N/A

*Alicia Caruso-Thomas*

Alicia Caruso-Thomas  
 Laboratory Director  
 03/06/2024