

NG Growers inc

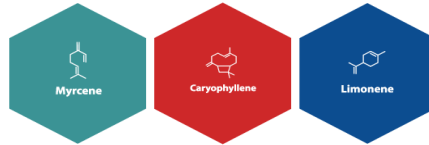
1543 Union Center Maine Hwy
 ellen@nanticokegardens.com
 607-754-5008
 License #: OCM-AUCC-22-000079

Certificate of Analysis

Final

Sample #: 1498**Pluto****Terpenes by HS-GC-MS**

Date Completed: 06/13/2023 1:29PM



Compound	CAS#	LOQ (%)	%	Relative Concentration
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beta-Myrcene	123-35-3	0.10	0.73	
trans-Caryophyllene	87-44-5	0.10	0.32	
R(+)-Limonene	5989-27-5	0.10	0.29	
cis-Ocimene	3338-55-4	0.10	0.23	
alpha-Humulene	6753-98-6	0.10	0.11	
(-)-Borneol	464-45-9	0.10	ND	
(-)-Caryophyllene Oxide	1139-30-6	0.10	ND	
(-)-Isopulegol	89-79-2	0.10	ND	
(+)-Borneol	464-43-7	0.10	ND	
(+)-Cedrol	77-53-2	0.10	ND	
(1R)-(+)-Camphor	464-49-3	0.10	ND	
3-Carene	13466-78-9	0.10	ND	
alpha-Bisabolol	515-69-5	0.10	ND	
alpha-Cedrene	469-61-4	0.10	ND	
alpha-Farnesene	502-61-4	0.10	ND	
alpha-Pinene	80-56-8	0.10	ND	
alpha-Terpinene	99-86-5	0.10	ND	
alpha-Terpineol	98-55-5	0.10	ND	
beta-Farnesene	18794-84-8	0.10	ND	
beta-Pinene	127-91-3	0.10	ND	
Camphene	79-92-5	0.10	ND	
cis-Nerolidol	142-50-7	0.10	ND	

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If sampled by Keystone State Testing, sampling followed SOP-P-NY500 at the client facility listed above.



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Compound	CAS#	LOQ (%)	%	Relative Concentration
Endo-Fenchyl Alcohol	14575-74-7	0.10	ND	
Eucalyptol	470-82-6	0.10	ND	
Fenchone	1195-79-5	0.10	ND	
gamma-Terpinene	99-85-4	0.10	ND	
gamma-Terpineol	586-81-2	0.10	ND	
Geraniol	106-24-1	0.10	ND	
Geranyl Acetate	105-87-3	0.10	ND	
Guaial	489-86-1	0.10	ND	
Hexahydro Thymol	15356-70-4	0.10	ND	
Linalool	78-70-6	0.10	ND	
Nerol	106-25-2	0.10	ND	
p-Mentha-1,5-diene	99-83-2	0.10	ND	
Pulegone	89-82-7	0.10	ND	
Sabinene	3387-41-5	0.10	ND	
Sabinene Hydrate	546-79-2	0.10	ND	
Terpinolene	586-62-9	0.10	ND	
trans-Nerolidol	40716-66-3	0.10	ND	
trans-Ocimene	3779-61-1	0.10	ND	
Valencene	4630-07-3	0.10	ND	

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

Foreign Matter by Microscopy**Pass**

Analysis Date: 06/14/2023 10:19 am

Compound	LOQ (%)	Limits (%)	Result (%)	Status
% Foreign Matter	0.001	2.0	ND	Pass
Mammalian Excreta	0.001	0.03	ND	Pass
Stems	0.001	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.

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Sample #: 1498

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Moisture by Analyzer

Pass

Analysis Date: 06/12/2023 10:31 am

Compound	LOQ (%)	Limits (%)	Result (%)	Status
Moisture	1.2	5 - 15	12.4	Pass

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

Water Activity by Meter

Pass

Analysis Date: 06/12/2023 10:31 am

Compound	LOQ (Aw)	Limits (Aw)	Result (Aw)	Status
Water Activity	0.05	0.65	0.52	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: 06/15/2023 9:41 am

Compound	LOQ (µg/g)	Limits (µg/g)	Result (µg/g)	Status
Abamectin	0.0100	0.5	ND	Pass
Acephate	0.0100	0.4	ND	Pass
Acequinocyl	0.0100	2	ND	Pass
Acetamiprid	0.0100	0.2	ND	Pass
Aldicarb	0.0100	0.4	ND	Pass
Azadirachtin	0.0100	1	ND	Pass
Azoxystrobin	0.0100	0.2	ND	Pass
Bifenazate	0.0100	0.2	ND	Pass
Bifenthrin	0.0100	0.2	ND	Pass
Boscalid	0.0100	0.4	ND	Pass
Carbaryl	0.0100	0.2	ND	Pass
Carbofuran	0.0100	0.2	ND	Pass
Chlorantraniliprole	0.0100	0.2	ND	Pass
Clofentezine	0.0100	0.2	ND	Pass
Coumaphos	0.0100	1	ND	Pass
Cyfluthrin	0.0100	1	ND	Pass

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Sample #: 1498

Pluto

Pesticides by LCMSMS

Pass

Analysis Date: 06/15/2023 9:41 am

Compound	LOQ (µg/g)	Limits (µg/g)	Result (µg/g)	Status
Cypermethrin	0.0100	1	ND	Pass
Daminozide	0.0100	1	ND	Pass
Diazinon	0.0100	0.2	ND	Pass
Dichlorvos	0.0100	1	ND	Pass
Dimethoate	0.0100	0.2	ND	Pass
Dimethomorph	0.0100	1	ND	Pass
Ethoprophos	0.0100	0.2	ND	Pass
Etofenprox	0.0100	0.4	ND	Pass
Etoazole	0.0100	0.2	ND	Pass
Fenhexamid	0.0100	1	ND	Pass
Fenoxycarb	0.0100	0.2	ND	Pass
Fenpyroximate	0.0100	0.4	ND	Pass
Fipronil	0.0100	0.4	ND	Pass
Fonicamid	0.0100	1	ND	Pass
Fludioxonil	0.0100	0.4	ND	Pass
Hexythiazox	0.0100	1	ND	Pass
Imazalil	0.0100	0.2	ND	Pass
Imidacloprid	0.0100	0.4	ND	Pass
Indolebutyric Acid	0.0100	1	ND	Pass
Kresoxim-methyl	0.0100	0.4	ND	Pass
Malathion	0.0100	0.2	ND	Pass
Metalaxyl	0.0100	0.2	ND	Pass
Methiocarb	0.0100	0.2	ND	Pass
Methomyl	0.0100	0.4	ND	Pass
Mevinphos	0.0100	1	ND	Pass
Myclobutanil	0.0100	0.2	ND	Pass

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Sample #: 1498

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Pesticides by LCMSMS

Pass

Analysis Date: 06/15/2023 9:41 am

Compound	LOQ (µg/g)	Limits (µg/g)	Result (µg/g)	Status
Naled	0.0100	0.5	ND	Pass
Oxamyl	0.0100	1	ND	Pass
Paclobutrazol	0.0100	0.4	ND	Pass
Permethrins, Total	0.0100	0.2	ND	Pass
Phosmet	0.0100	0.2	ND	Pass
Piperonyl Butoxide	0.0100	2	ND	Pass
Prallethrin	0.0100	0.2	ND	Pass
Propiconazole	0.0100	0.4	ND	Pass
Propoxur	0.0100	0.2	ND	Pass
Pyrethrins Total	0.0100	1	ND	Pass
Pyridaben	0.0100	0.2	ND	Pass
Spinetoram Total	0.0100	1	ND	Pass
Spinosad Total	0.0100	0.2	ND	Pass
Spiromesifen	0.0100	0.2	ND	Pass
Spirotetramat	0.0100	0.2	ND	Pass
Spiroxamine	0.0100	0.2	ND	Pass
Tebuconazole	0.0100	0.4	ND	Pass
Thiacloprid	0.0100	0.2	ND	Pass
Thiamethoxam	0.0100	0.2	ND	Pass
Trifloxystrobin	0.0100	0.2	ND	Pass

Comment: Pesticides tested by LCMSMS by using P-NY150. Unless otherwise stated, all QC passed.

Mycotoxins by LCMSMS

Pass

Analysis Date: 06/15/2023 9:41 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

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Analysis Date: 06/15/2023 9:41 am

Compound	LOQ (µg/g)	Limits (µg/g)	Result (µg/g)	Status
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: 06/14/2023 10:07 am

Compound	LOQ (µg/g)	Limits (µg/g)	Result (µg/g)	Status
Antimony	0.01	2	ND	Pass
Arsenic	0.001	0.2	ND	Pass
Cadmium	0.0015	0.3	0.056	Pass
Chromium	0.28	110	ND	Pass
Copper	0.075	30	6.1	Pass
Lead	0.0025	0.5	0.015	Pass
Mercury	0.0005	0.1	ND	Pass
Nickel	0.01	2	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: 06/14/2023 10:56 am

Compound	LOQ (CFU/g)	Limits (CFU/g)	Result (CFU/g)	Status
Aspergillus flavus Qualitative	0	0	Not Detected	Pass
Aspergillus fumigatus Qualitative	0	0	Not Detected	Pass
Aspergillus niger Qualitative	0	0	Not Detected	Pass
Aspergillus terreus Qualitative	0	0	Not Detected	Pass
Salmonella Qualitative	0	0	Not Detected	Pass
Shiga Toxin-Producing E. coli Qualitative	0	0	Not Detected	Pass

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Sample #: 1498**Pluto****Micro by Petri & qPCR****Pass****Analysis Date:** 06/14/2023 10:56 am

Compound	LOQ (CFU/g)	Limits (CFU/g)	Result (CFU/g)	Status
Total Aerobic Bacteria	10		1000	Pass
Total Yeast & Mold	10		ND	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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