



**Route 27 Hopyard**  
 27 Veith Ave, Moriches, NY, 11955  
 Ryan@route27hempyard.com  
 (516)761-2704  
 License #: OCM-CULT-24-000064

# Certificate of Analysis

Final



Date Released: 6/9/2025 12:25:48PM

Report #: 62667

## 14G Preground (004)

Sample #: 15606, Weight: 128.00g, Unit Count:  
 Order #: X250603-0002

Category/Type: Plant, Flower - Cured

Date Collected: 6/2/2025 6:00:00PM

Date Received: 6/3/2025 9:46:57AM

Date Sampled: 6/2/2025 11:00:00AM

Regulator Sample ID: 1035 0011 1111 2451

Regulator Source Package ID: 1035 0011 1111 2451

Regulator Batch ID: 1035 0011 1111 2451

Size: 3000Units, Unit Count:



**Total Cannabinoids**  
 41.81 %  
 418.1 mg/g



**Total THC**  
 35.33 %  
 353.3 mg/g



**Total CBD**  
 0.5471 %  
 5.471 mg/g



**Total Terpenes**  
 1.058 %



**Moisture**  
 10.6 %



**Heavy Metals**  
 PASS



**Microbials**  
 PASS



**Pesticides**  
 PASS



**Mycotoxins**  
 PASS



**Foreign Matter**  
 PASS



**Water Activity**  
 PASS

Cannabinoids Avg					Date Completed: 06/04/2025 10:07PM
Total Cannabinoids: <b>41.81 % - 418.1 mg/g</b>					
Total THC: <b>35.33 % - 353.3 mg/g</b>					
Total CBD: <b>0.5471 % - 5.471 mg/g</b>					
Compound	CAS#	LOQ (%)	%	mg/g	Relative Concentration
THCa	23978-85-0	0.001000	36.15	361.5	<div style="width: 36.15%;"></div>
d9-THC	1972-08-3	0.001000	3.114	31.14	<div style="width: 3.114%;"></div>
CBGa	25555-57-1	0.001000	1.274	12.74	<div style="width: 1.274%;"></div>
CBDa	1244-58-2	0.001000	0.6239	6.239	<div style="width: 0.6239%;"></div>
d8-THC	5957-75-5	0.001000	0.5111	5.111	<div style="width: 0.5111%;"></div>
CBG	25654-31-3	0.001000	0.1289	1.289	<div style="width: 0.1289%;"></div>
CBDV	24274-48-4	0.001000	ND	ND	<div style="width: 0%;"></div>

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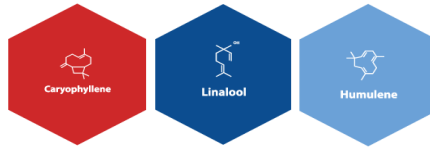
**14G Preground (004)**

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	
d10/R9-THC	95543-62-7	0.001000	ND	ND	
d10/S9-THC	95588-87-7	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: 06/06/2025 12:35PM



Compound	CAS#	LOQ (%)	%	Relative Concentration
Beta-caryophyllene	87-44-5	0.1000	0.4564	<div style="width: 45.64%;"></div>
Linalool	78-70-6	0.1000	0.2171	<div style="width: 21.71%;"></div>
Alpha-humulene	6753-98-6	0.1000	0.1482	<div style="width: 14.82%;"></div>
Valencene	4630-07-3	0.1000	0.1255	<div style="width: 12.55%;"></div>
Limonene	5989-27-5	0.1000	0.1110	<div style="width: 11.10%;"></div>
Beta-myrcene	123-35-3	0.1000	ND	
Alpha-pinene	80-56-8	0.1000	ND	
Beta-pinene	127-91-3	0.1000	ND	
Terpinolene	586-62-9	0.1000	ND	

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Compound	CAS#	LOQ (%)	%	Relative Concentration
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	
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.

Foreign Matter by Microscopy		Pass		Analysis Date: 06/06/2025 11:23 am	
Compound	LOQ (%)	Limits (%)	Result (%)	Status	
% Filth	0.00100	2.0	ND	Pass	
% Mammalian Excreta	0.00100	5.0	ND	Pass	
% Stems	0.00100	0.03	ND	Pass	

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

Moisture by Analyzer		Pass		Analysis Date: 06/04/2025 10:14 pm	
Compound	LOQ (%)	Limits (%)	Result (%)	Status	
Moisture	1.2	0 - 15	10.6	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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## Water Activity by Meter

**Pass**

Analysis Date: 06/06/2025 11:27 am

Compound	LOQ (Aw)	Limits (Aw)	Result (Aw)	Status
Water Activity	0.05	0.65	0.51	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: 06/06/2025 11:36 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
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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14G Preground (004)

## Pesticides by LCMSMS

Pass

Analysis Date: 06/06/2025 11:36 am

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
Etoxazole	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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Pass

Analysis Date: 06/06/2025 11:36 am

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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**14G Preground (004)**

## Mycotoxins by LCMSMS

**Pass**

Analysis Date: 06/06/2025 11:36 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: 06/06/2025 11:52 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	0.200	0.00275	Pass
Chromium	0.280	110	ND	Pass
Copper	0.0750	30.0	10.0	Pass
Lead	0.00250	0.500	0.0271	Pass
Mercury	0.000500	0.100	0.00478	Pass
Nickel	0.0100	5.00	0.500	Pass

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

## Micro by Petri & qPCR

**Pass**

Analysis Date: 06/06/2025 10:33 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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**14G Preground (004)**

**Micro by Petri & qPCR**

**Pass**

Analysis Date: 06/06/2025 10:33 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		98000	Pass
Total Yeast & Mold	10		6000	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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