

# PROCESS CONTROL

## Gen V Labs, LLC

4473 Cherry Valley Tpk  
Lafayette, NY 13084  
cboland@ayrloom.com  
315-420-9584

License #: OCM-AUCP-22-00007

# Certificate of Analysis

Final

Date Released: 3/23/2023 9:16:49AM

Report #: 804

## Orchard Sunrise Gummies

Sample #: 408, Weight: 320.00g, Unit Count:

Order #: X230303-0003

Category/Type: Ingestible, Gummy

Date Collected: 3/3/2023 3:11:20PM

Date Received: 3/3/2023 3:49:11PM

Date Analyzed: 3/10/2023 3:49:35PM

Regulator Sample ID: 022724-G0054

Regulator Source Package ID: 022724-G0054

Regulator Batch ID: 022724-G0054



Total Cannabinoids  
16.6 mg/svg  
3.8 mg/g



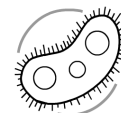
Total THC  
11.5 mg/svg  
2.7 mg/g



Total CBD  
0.2 mg/svg  
ND mg/g



Heavy Metals  
PASS



Microbials  
PASS



Residual Solvents  
PASS



Pesticides  
PASS



Mycotoxins  
PASS



Water Activity  
PASS

## Potency Analysis by HPLC

Total Cannabinoids: 16.6 mg/svg - 3.8 mg/g

Total THC: 11.5 mg/svg - 2.7 mg/g

Total CBD: 0.2 mg/svg - ND mg/g

Date Completed: 03/10/2023 3:49PM

Compound	CAS#	LOQ (mg/svg)	mg/svg	mg/g	Relative Concentration
d9-THC	1972-08-3	0.1	11.5	2.7	
CBG	25654-31-3	0.1	4.6	1.1	
THCV	31262-37-0	0.1	0.1	ND	
CBD	13956-29-1	0.1	0.1	ND	
CBDa	1244-58-2	0.1	0.1	ND	
CBC	20675-51-8	0.1	0.1	ND	
CBN	521-35-7	0.1	0.1	ND	
THCa	23978-85-0	0.1	ND	ND	
d8-THC	5957-75-5	0.1	ND	ND	
d10-THC	95543-62-7	0.1	ND	ND	
CBDV	24274-48-4	0.1	ND	ND	
CBGa	25555-57-1	0.1	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.

Total THC = d9-THC + d8-THC + d10-THC + (0.877\*THCa)

Total CBD = CBD + (0.877\*CBDa)

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*Kelly N Greenland*

Dr. Kelly Greenland, Lab Director  
3/23/2023 9:20:42AM



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## Water Activity by Meter

Pass

Date Completed: 03/07/2023 12:16 pm

Compound	LOQ (Aw)	Limits (Aw)	Result (Aw)	Status
Water Activity	0.05	0.85	0.68	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

Date Completed: 03/10/2023 2:59 pm

Compound	LOQ (µg/g)	Limits (µg/g)	Result (µg/g)	Status
Abamectin	0.01	0.5	ND	Pass
Acephate	0.01	0.4	ND	Pass
Acequinocyl	0.01	2	ND	Pass
Acetamiprid	0.01	0.2	ND	Pass
Aldicarb	0.01	0.4	ND	Pass
Azadirachtin	0.01	1	ND	Pass
Azoxystrobin	0.01	0.2	ND	Pass
Bifenazate	0.01	0.2	ND	Pass
Bifenthrin	0.01	0.2	ND	Pass
Boscalid	0.01	0.4	ND	Pass
Carbaryl	0.01	0.2	ND	Pass
Carbofuran	0.01	0.2	ND	Pass
Chlorantraniliprole	0.01	0.2	ND	Pass
Chloromequat Chloride	0.01	1	ND	Pass
Chlorpyrifos	0.01	0.2	ND	Pass
Clofentezine	0.01	0.2	ND	Pass
Coumaphos	0.01	1	ND	Pass
Cyfluthrin	0.01	1	ND	Pass
Cypermethrin	0.01	1	ND	Pass

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### Pesticides by LCMSMS

Pass

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Compound	LOQ (µg/g)	Limits (µg/g)	Result (µg/g)	Status
Daminozide	0.01	1	ND	Pass
Diazinon	0.01	0.2	ND	Pass
Dichlorvos	0.01	1	ND	Pass
Dimethoate	0.01	0.2	ND	Pass
Dimethomorph	0.01	1	ND	Pass
Ethoprophos	0.01	0.2	ND	Pass
Etofenprox	0.01	0.4	ND	Pass
Etoxazole	0.01	0.2	ND	Pass
Fenhexamid	0.01	1	ND	Pass
Fenoxycarb	0.01	0.2	ND	Pass
Fenpyroximate	0.01	0.4	ND	Pass
Fipronil	0.01	0.4	ND	Pass
Fonicamid	0.01	1	ND	Pass
Fludioxonil	0.01	0.4	ND	Pass
Hexythiazox	0.01	1	ND	Pass
Imazalil	0.01	0.2	ND	Pass
Imidacloprid	0.01	0.4	ND	Pass
Indolebutyric Acid	0.01	1	ND	Pass
Kresoxim-methyl	0.01	0.4	ND	Pass
Malathion	0.01	0.2	ND	Pass
Metalaxyl	0.01	0.2	ND	Pass
Methiocarb	0.01	0.2	ND	Pass
Mevinphos	0.01	1	ND	Pass
Myclobutanil	0.01	0.2	ND	Pass
Naled	0.01	0.5	ND	Pass

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## Pesticides by LCMSMS

Pass

Date Completed: 03/10/2023 2:59 pm

Compound	LOQ (µg/g)	Limits (µg/g)	Result (µg/g)	Status
Oxamyl	0.01	1	ND	Pass
Paclobutrazol	0.01	0.4	ND	Pass
Permethrin	0.01	0.2	ND	Pass
Phosmet	0.01	0.2	ND	Pass
Piperonyl Butoxide	0.01	2	ND	Pass
Prallethrin	0.01	0.2	ND	Pass
Propiconazole	0.01	0.4	ND	Pass
Propoxur	0.01	0.2	ND	Pass
Pyrethrins Total	0.01	1	ND	Pass
Pyridaben	0.01	0.2	ND	Pass
Spinetoram	0.01	1	ND	Pass
Spinosad Total	0.01	.2	ND	Pass
Spiromesifen	0.01	0.2	ND	Pass
Spirotetramat	0.01	0.2	ND	Pass
Spiroxamine	0.01	0.2	ND	Pass
Tebuconazole	0.01	0.4	ND	Pass
Thiacloprid	0.01	0.2	ND	Pass
Thiamethoxam	0.01	0.2	ND	Pass
Trifloxystrobin	0.01	0.2	ND	Pass

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

## Residual Solvents by HS-GC-MS

Pass

Date Completed: 03/08/2023 1:33 pm

Compound	LOQ (ppm)	Limits (ppm)	Result (ppm)	Status
1,4-Dioxane	50	380	ND	Pass
2-Butanol	50	5000	ND	Pass

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### Residual Solvents by HS-GC-MS

Pass

Date Completed: 03/08/2023 1:33 pm

Compound	LOQ (ppm)	Limits (ppm)	Result (ppm)	Status
2-Ethoxyethanol	50	160	ND	Pass
3-Methylpentane	10		ND	Pass
Acetone	50	5000	ND	Pass
Acetonitrile	50	410	ND	Pass
Benzene	0.5	2	ND	Pass
Butanes ppm	25	5000	ND	Pass
Cumene	50	70	ND	Pass
Cyclohexane	50	3880	ND	Pass
Ethanol	50	5000	657	Pass
Ethyl acetate	50	5000	ND	Pass
Ethyl ether	50	5000	ND	Pass
Ethylbenzene	12.5		ND	Pass
Ethylene glycol	50	620	ND	Pass
Ethylene oxide	50	50	ND	Pass
Heptane	50	5000	ND	Pass
Hexane	10		ND	Pass
Isopropanol	50	5000	ND	Pass
Isopropyl acetate	50	5000	ND	Pass
Methanol	50	3000	ND	Pass
Methylene chloride	50	600	ND	Pass
Pentanes Total	16.7	5000	ND	Pass
Propane	50	5000	ND	Pass
Tetrahydrofuran	50	720	ND	Pass
Toluene	50	890	ND	Pass
Total xylenes	25	2170	ND	Pass

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Comment: Residual Solvents tested by GCMS using P-NY170. Unless otherwise stated, all QC passed.

### Mycotoxins by LCMSMS

Pass

Date Completed: 03/10/2023 2:59 pm

Compound	LOQ (µg/g)	Limits (µg/g)	Result (µg/g)	Status
Aflatoxin B1	0.005	0.020	ND	Pass
Aflatoxin B2	0.005	0.020	ND	Pass
Aflatoxin G1	0.005	0.020	ND	Pass
Aflatoxin G2	0.005	0.020	ND	Pass
Ochratoxin A	0.005	0.020	ND	Pass
Total Aflatoxin	0.005	0.020	ND	Pass

Comment: Mycotoxin contamination tested by LCMSMS using P-NY125. Unless otherwise stated, all QC passed.

### Heavy Metals by ICPMS

Pass

Date Completed: 03/08/2023 2:19 pm

Compound	LOQ (µg/g)	Limits (µg/g)	Result (µg/g)	Status
Antimony		120	0.0	Pass
Arsenic		1.5	0.0	Pass
Cadmium		0.5	0.0	Pass
Chromium		1100	0.0	Pass
Copper		300	0.0	Pass
Lead		0.5	0.1	Pass
Mercury		3	0.0	Pass
Nickel		20	0.0	Pass

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

### Micro by Petri & qPCR

Pass

Date Completed: 03/07/2023 12:21 pm

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

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### Micro by Petri & qPCR

Pass

Date Completed: 03/07/2023 12:21 pm

Compound	LOQ (CFU/g)	Limits (CFU/g)	Result (CFU/g)	Status
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
Total Aerobic Bacteria	10		ND	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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