

## Southern Tier Hemp LLC

3061 West Lake Road, Skaneateles, NY 13152

Newyork@STHCanna.COM

516-659-9398

License #: OCM-AUCC-22-000273

# Certificate of Analysis

Final



Date Released: 12/21/2023 1:29:08PM

Report #: 7531

### Banana OG 2pk

Sample #: 3364, Weight: 8.00g, Unit Count:

Order #: X231215-0005

Category/Type: Plant, Preroll

Date Collected: 12/15/2023 8:51:23PM

Date Received: 12/15/2023 9:02:46PM

Regulator Sample ID: BOG\_S\_6.17.23

Regulator Source Package ID: BOG\_S\_6.17.23

Regulator Batch ID: BOG\_S\_6.17.23

Size: 492Units, Unit Count:



Total Cannabinoids  
22.93 %  
229.3 mg/g



Total THC  
19.71 %  
197.1 mg/g



Total CBD  
0.06965 %  
0.6965 mg/g



Total Terpenes  
1.1 %



Moisture  
5.5 %



Heavy Metals  
PASS



Microbials  
PASS



Pesticides  
PASS



Mycotoxins  
PASS



Foreign Matter  
PASS



Water Activity  
PASS

### Potency Analysis by HPLC

Total Cannabinoids: 22.93 % - 229.3 mg/g

Total THC: 19.71 % - 197.1 mg/g

Total CBD: 0.06965 % - 0.6965 mg/g

Date Completed: 12/19/2023 11:05AM

| Compound | CAS#       | LOQ (%)  | %       | mg/g   | Relative Concentration |
|----------|------------|----------|---------|--------|------------------------|
| THCa     | 23978-85-0 | 0.001000 | 18.77   | 187.7  |                        |
| d9-THC   | 1972-08-3  | 0.001000 | 3.246   | 32.46  |                        |
| CBGa     | 25555-57-1 | 0.001000 | 0.5636  | 5.636  |                        |
| CBG      | 25654-31-3 | 0.001000 | 0.1352  | 1.352  |                        |
| CBDa     | 1244-58-2  | 0.001000 | 0.07942 | 0.7942 |                        |
| CBC      | 20675-51-8 | 0.001000 | 0.05824 | 0.5824 |                        |
| CBDV     | 24274-48-4 | 0.001000 | 0.05131 | 0.5131 |                        |
| THCV     | 31262-37-0 | 0.001000 | 0.02199 | 0.2199 |                        |
| d8-THC   | 5957-75-5  | 0.001000 | ND      | ND     |                        |
| d10-THC  | 95543-62-7 | 0.001000 | ND      | ND     |                        |
| CBD      | 13956-29-1 | 0.001000 | ND      | ND     |                        |
| CBN      | 521-35-7   | 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.

d8-THC is an abbreviation for delta-8 tetrahydrocannabinol. d9-THC is an abbreviation for delta-9 tetrahydrocannabinol.

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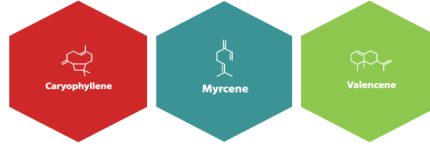


Sample #: 3364

Banana OG 2pk

## Terpenes by HS-GC-MS

Date Completed: 12/20/2023 9:52AM



| Compound            | CAS#       | LOQ (%) | %      | Relative Concentration |
|---------------------|------------|---------|--------|------------------------|
| Beta-caryophyllene  | 87-44-5    | 0.1000  | 0.3510 | <div></div>            |
| Farnesene           | 502-61-4   | 0.1000  | 0.2857 | <div></div>            |
| Beta-myrcene        | 123-35-3   | 0.1000  | 0.1576 | <div></div>            |
| Valencene           | 4630-07-3  | 0.1000  | 0.1502 | <div></div>            |
| Alpha-humulene      | 6753-98-6  | 0.1000  | 0.1377 | <div></div>            |
| Limonene            | 5989-27-5  | 0.1000  | ND     |                        |
| Alpha-pinene        | 80-56-8    | 0.1000  | ND     |                        |
| Linalool            | 78-70-6    | 0.1000  | ND     |                        |
| Beta-pinene         | 127-91-3   | 0.1000  | ND     |                        |
| Terpinolene         | 586-62-9   | 0.1000  | ND     |                        |
| Borneol             | 464-43-7   | 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     |                        |
| 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     |                        |
| Camphor             | 464-49-3   | 0.1000  | ND     |                        |

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**Sample #: 3364****Banana OG 2pk**

| Compound         | CAS#       | LOQ (%) | %     | Relative Concentration |
|------------------|------------|---------|-------|------------------------|
| 3-Carene         | 13466-78-9 | 0.1000  | ND    |                        |
| Alpha-cedrene    | 469-61-4   | 0.1000  | ND    |                        |
| Cedrol           | 77-53-2    | 0.1000  | ND    |                        |
| Eucalyptol       | 470-82-6   | 0.1000  | ND    |                        |
| Fenchone         | 1195-79-5  | 0.1000  | ND    |                        |
| Gamma-terpinene  | 99-85-4    | 0.1000  | ND    |                        |
| Geranyl Acetate  | 105-87-3   | 0.1000  | ND    |                        |
| Isopulegol       | 89-79-2    | 0.1000  | ND    |                        |
| Menthol          | 15356-70-4 | 0.1000  | ND    |                        |
| Nerol            | 106-25-2   | 0.1000  | ND    |                        |
| Nerolidol        |            |         | 0.000 |                        |
| Pulegone         | 89-82-7    | 0.1000  | ND    |                        |
| Sabinene         | 3387-41-5  | 0.1000  | ND    |                        |
| Sabinene Hydrate | 546-79-2   | 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:** 12/19/2023 3:38 pm

| Compound          | LOQ (%) | Limits (%) | Result (%) | Status |
|-------------------|---------|------------|------------|--------|
| % Foreign Matter  | 0.00100 | 2.0        | ND         | Pass   |
| Mammalian Excreta | 0.00100 | 0.03       | ND         | Pass   |
| Stems             | 0.00100 | 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.**Moisture LWG****Pass****Analysis Date:** 12/19/2023 3:23 pm

| Compound | LOQ (%) | Limits (%) | Result (%) | Status |
|----------|---------|------------|------------|--------|
| Moisture | 1.2     | 5 - 15     | 5.5        | 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 #: 3364****Banana OG 2pk****Water Activity****Pass**

Analysis Date: 12/19/2023 3:28 pm

| Compound       | LOQ (Aw) | Limits (Aw) | Result (Aw) | Status |
|----------------|----------|-------------|-------------|--------|
| Water Activity | 0.05     | 0.65        | 0.29        | 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: 12/21/2023 1:02 pm

| 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   |
| 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   |

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**Sample #: 3364****Banana OG 2pk****Pesticides by LCMSMS****Pass****Analysis Date:** 12/21/2023 1:02 pm

| 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   |
| 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   |
| 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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**Sample #: 3364****Banana OG 2pk****Pesticides by LCMSMS****Pass****Analysis Date:** 12/21/2023 1:02 pm

| 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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**Sample #: 3364****Banana OG 2pk****Mycotoxins by LCMSMS****Pass****Analysis Date:** 12/20/2023 12:13 pm

| 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:** 12/19/2023 11:54 am

| Compound | LOQ (µg/g) | Limits (µg/g) | Result (µg/g) | Status |
|----------|------------|---------------|---------------|--------|
| Antimony | 0.0100     | 2.00          | ND            | Pass   |
| Arsenic  | 0.00100    | 0.200         | 0.0254        | Pass   |
| Cadmium  | 0.00150    | 0.300         | 0.0333        | Pass   |
| Chromium | 0.280      | 110           | 0.464         | Pass   |
| Copper   | 0.0750     | 30.0          | 2.66          | Pass   |
| Lead     | 0.00250    | 0.500         | 0.0554        | Pass   |
| Mercury  | 0.000500   | 0.100         | ND            | Pass   |
| Nickel   | 0.0100     | 5.00          | 0.199         | Pass   |

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

**Micro by Petri & qPCR****Pass****Analysis Date:** 12/20/2023 1:35 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   |
| Aspergillus niger Qualitative     | 0           | 0              | Not Detected   | Pass   |
| Aspergillus terreus Qualitative   | 0           | 0              | Not Detected   | Pass   |

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**Sample #: 3364****Banana OG 2pk****Micro by Petri & qPCR****Pass****Analysis Date:** 12/20/2023 1:35 pm

| Compound                                  | LOQ (CFU/g) | Limits (CFU/g) | Result (CFU/g) | Status |
|-------------------------------------------|-------------|----------------|----------------|--------|
| 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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