

**SUMMARY OF ANALYSIS (SAMPLE ID: SA33647)**

|  |                                 |                          |                                   |
|--|---------------------------------|--------------------------|-----------------------------------|
| <b>Testing Location:</b>                                     | <b>Customer ID:</b> 2161        | <b>Order ID:</b> OR10208 | <b>Sample Type:</b> Primary       |
| Arkansas   | River Valley Relief Cultivation | <b>Lot Number:</b>       | <b>Matrix:</b> Flower             |
| 232 S. Broadview St.   | 5601 Old Greenwood Rd Suite C   | M00065C13131133770       | <b>Mass:</b> 15g                  |
| Greenbrier, AR 72058   | Fort Smith, AR 72903            | <b>Production Run:</b>   | <b>Date Collected:</b> 12/07/2022 |
| License: ADH 113   | License: 00065C                 | 7014H20221013GVG2        | <b>Date Received:</b> 12/07/2022  |
| <b>Cultivar (Strain) or Sample Description:</b> Guava Gelato |                                 |                          | <b>Date Completed:</b> 12/12/2022 |

\*This page is simply a summary of the analysis performed. For analytical details, please consult the individual Certificate(s) of Analysis for each of the specific test(s) performed. All contaminant action levels are referenced from the State of Arkansas MMJ testing guidelines.

**Moisture Content (%)**

10.7

**Water Activity (aw)**

0.494 @ 24.2°C

**PASS/FAIL**

**PASS**

Moisture content/water activity action levels are referenced from the State of Arkansas MMJ testing guidelines.

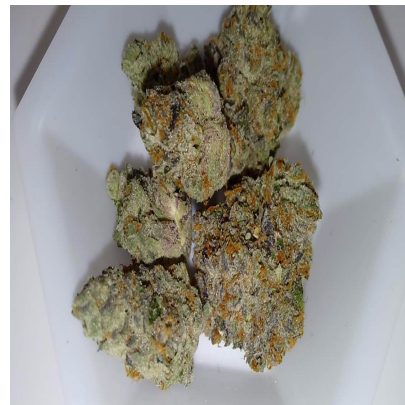
Moisture content levels less than 15% are recommended but the sample does not fail. Water activity levels must be less than 0.65aw.

| <b>Cannabinoids (Top 3)</b> | <b>(%)</b> | <b>mg/g</b> |
|-----------------------------|------------|-------------|
| THCA                        | 22.3       | 223         |
| CBGA                        | 0.968      | 9.68        |
| Δ9-THC                      | 0.534      | 5.34        |
| TOTAL CBD                   | 0.0427     | 0.427       |
| TOTAL THC                   | 20.1       | 201         |
| TOTAL CANNABINOIDS          | 24.3       | 243         |

| <b>Terpenes (Top 5)</b> | <b>(%)</b> | <b>µg/g</b> |
|-------------------------|------------|-------------|
| β-Caryophyllene         | 0.204      | 2040        |
| d-Limonene              | 0.185      | 1850        |
| β-Myrcene               | 0.174      | 1740        |
| Linalool                | 0.120      | 1200        |
| α-Humulene              | 0.0888     | 888         |
| TOTAL TERPENES          | 1.00       | 10000       |

| <b>Contaminants</b> | <b>PASS/FAIL</b> |
|---------------------|------------------|
| Heavy Metals:       | <b>PASS</b>      |
| Microbiology:       | <b>PASS</b>      |
| Pesticides:         | <b>PASS</b>      |

**Sample Picture Upon Receipt**



Scan the QR code to verify results.

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*Kyle W. Felling*  
Kyle W. Felling, Ph.D.  
Laboratory Director



**CERTIFICATE OF ANALYSIS (SAMPLE ID: SA33647)**

|  |                                 |                          |                                   |
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| 232 S. Broadview St.   | 5601 Old Greenwood Rd Suite C   | M00065C13131133770       | <b>Mass:</b> 15g                  |
| Greenbrier, AR 72058   | Fort Smith, AR 72903            | <b>Production Run:</b>   | <b>Date Collected:</b> 12/07/2022 |
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**CANNABINOID (POTENCY) PROFILE (SOP: SOP-CANN-001)**

**Analysis Date/Time:** 12/9/2022 1827

**Method:** HPLC/DAD

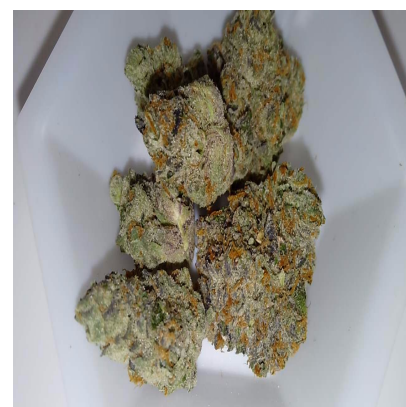
**Moisture Content (%):** 10.7

**Analyst:** PW

**Instrument:** Agilent 1100

**Water Activity (aw):** 0.494 @ 24.18°C

| <u>Cannabinoid</u> | <u>Result</u><br>(%) | <u>UM</u><br>(+/-%) | <u>Result</u><br>(mg/g) | <u>LOQ</u><br>(mg/g) | <u>Result</u><br>(mg/mL) | <u>Per</u><br><u>Serving</u><br>(mg) | <u>Per</u><br><u>Unit</u><br>(mg) |
|--------------------|----------------------|---------------------|-------------------------|----------------------|--------------------------|--------------------------------------|-----------------------------------|
| CBC                | -                    | -                   | -                       | 0.233                | -                        | -                                    | -                                 |
| CBCA               | 0.150                | 0.0135              | 1.50                    | 0.233                | -                        | 1.50                                 | 1.50                              |
| CBD                | -                    | -                   | -                       | 0.233                | -                        | -                                    | -                                 |
| CBDA               | 0.0487               | 0.00439             | 0.487                   | 0.233                | -                        | 0.487                                | 0.487                             |
| CBDV               | -                    | -                   | -                       | 0.233                | -                        | -                                    | -                                 |
| CBDVA              | -                    | -                   | -                       | 0.233                | -                        | -                                    | -                                 |
| CBG                | 0.112                | 0.0100              | 1.12                    | 0.233                | -                        | 1.12                                 | 1.12                              |
| CBGA               | 0.968                | 0.0872              | 9.68                    | 0.233                | -                        | 9.68                                 | 9.68                              |
| CBL                | -                    | -                   | -                       | 0.233                | -                        | -                                    | -                                 |
| CBN                | -                    | -                   | -                       | 0.233                | -                        | -                                    | -                                 |
| CBNA               | 0.0829               | 0.00746             | 0.829                   | 0.233                | -                        | 0.829                                | 0.829                             |
| Δ9-THC             | 0.534                | 0.0481              | 5.34                    | 0.233                | -                        | 5.34                                 | 5.34                              |
| Δ8-THC             | -                    | -                   | -                       | 0.233                | -                        | -                                    | -                                 |
| THCA               | 22.3                 | 2.01                | 223                     | 0.233                | -                        | 223                                  | 223                               |
| THCV               | -                    | -                   | -                       | 0.233                | -                        | -                                    | -                                 |
| THCVA              | 0.113                | 0.0102              | 1.13                    | 0.233                | -                        | 1.13                                 | 1.13                              |
| <b>TOTAL</b>       | <b>24.3</b>          | <b>2.19</b>         | <b>243</b>              |                      | <b>-</b>                 | <b>243</b>                           | <b>243</b>                        |
| <b>TOTAL CBC</b>   | <b>0.132</b>         | <b>0.0119</b>       | <b>1.32</b>             |                      | <b>-</b>                 | <b>1.32</b>                          | <b>1.32</b>                       |
| <b>TOTAL CBD</b>   | <b>0.0427</b>        | <b>0.00385</b>      | <b>0.427</b>            |                      | <b>-</b>                 | <b>0.427</b>                         | <b>0.427</b>                      |
| <b>TOTAL CBDV</b>  | <b>-</b>             | <b>-</b>            | <b>-</b>                |                      | <b>-</b>                 | <b>-</b>                             | <b>-</b>                          |
| <b>TOTAL CBG</b>   | <b>0.962</b>         | <b>0.0866</b>       | <b>9.62</b>             |                      | <b>-</b>                 | <b>9.62</b>                          | <b>9.62</b>                       |
| <b>TOTAL CBN</b>   | <b>0.0726</b>        | <b>0.00653</b>      | <b>0.726</b>            |                      | <b>-</b>                 | <b>0.726</b>                         | <b>0.726</b>                      |
| <b>TOTAL THC</b>   | <b>20.1</b>          | <b>1.81</b>         | <b>201</b>              |                      | <b>-</b>                 | <b>201</b>                           | <b>201</b>                        |
| <b>TOTAL THCVA</b> | <b>0.0980</b>        | <b>0.00882</b>      | <b>0.980</b>            |                      | <b>-</b>                 | <b>0.980</b>                         | <b>0.980</b>                      |



**SERVING MASS (g):** 1.00  
**SERVINGS/UNIT:** 1

"-" Not detected above LOD.

*Deviations from standard operating procedure:*  
None

*Recoveries for all analyte standards:* 90-110%  
*Replicate Uncertainties:* <5% RSD, <20% RPD  
*Sample/Reagent Blanks:* <RL for all analytes

Values for plant matter are adjusted for moisture content.

Total CBC = (CBCA x 0.877) + CBC  
Total CBD = (CBDA x 0.877) + CBD  
Total CBDV = (CBDVA x 0.867) + CBDV  
Total CBG = (CBGA x 0.878) + CBG  
Total CBN = (CBNA x 0.876) + CBN  
Total THC = (THCA x 0.877) + Δ9-THC  
Total THCVA = (THCVA x 0.867) + THCVA

Percentage results are reported by mass.

mg/g results are reported as mass component per mass material.

\* CBCA, CBDVA, CBL, CBNA, and THCVA are in process of being added to our accreditation scope.

*Abbreviations:* DAD - Diode Array Detector, HPLC - High Pressure Liquid Chromatography,  
RL - Reporting Limit, RPD - Relative Percent Difference, RSD - Relative Standard Deviation,  
DET - Detected (less than LOQ), LOD - Limit of Detection, LOQ - Limit of Quantitation,  
UM - Measurement Uncertainty

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*Kyle W. Felling*  
Kyle W. Felling, Ph.D.  
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**TERPENOID PROFILE**

**Analysis Date/Time:** 12/09/2022 0927

**Analyst:** KF

**Method:** GC/MS

**Instrument:** Agilent 7890/5975

**Deviations from SOP:**

None

| <b>Terpene</b>      | <b>Result (µg/g)</b> | <b>Result (%)</b> |  |
|---------------------|----------------------|-------------------|--|
| α-Bisabolol         | -                    | -                 |  |
| Camphene            | 114                  | 0.0114            |  |
| δ-3-Carene          | -                    | -                 |  |
| β-Caryophyllene     | 2040                 | 0.204             |  |
| Caryophyllene oxide | 98.5                 | 0.00985           |  |
| p-Cymene            | -                    | -                 |  |
| Eucalyptol          | -                    | -                 |  |
| Geraniol            | 84.2                 | 0.00842           |  |
| Guaiol              | 570                  | 0.0570            |  |
| α-Humulene          | 888                  | 0.0888            |  |
| Isopulegol          | -                    | -                 |  |
| d-Limonene          | 1850                 | 0.185             |  |
| Linalool            | 1200                 | 0.120             |  |
| β-Myrcene           | 1740                 | 0.174             |  |
| cis-Nerolidol       | -                    | -                 |  |
| trans-Nerolidol     | 366                  | 0.0366            |  |
| α-Ocimene           | -                    | -                 |  |
| β-Ocimene           | 81.3                 | 0.00813           |  |
| α-Pinene            | 293                  | 0.0293            |  |
| β-Pinene            | 548                  | 0.0548            |  |
| α-Terpinene         | -                    | -                 |  |
| γ-Terpinene         | -                    | -                 |  |
| Terpinolene         | 119                  | 0.0119            |  |
| <b>TOTAL</b>        | <b>10000</b>         | <b>1.00</b>       |  |



**Abbreviations:** GC - Gas Chromatography, MS - Mass Spectrometry, RL - Reporting Limit

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"-" Not detected above RL.

**Reporting Limit (µg/g): 19.3**

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**PESTICIDES PROFILE (SOP: SOP-PEST-001)**

**Analysis Date/Time:** 12/09/2022 0533

**Analyst:** KF

**Method:** LC/MS/MS

**Instrument:** Shimadzu LC-8050

**Deviations from SOP:**

None

| Pesticide                            | Result<br>(µg/g) | LOD<br>(µg/g) | LOQ<br>(µg/g) | Action<br>Level<br>(µg/g) | Pesticide                        | Result<br>(µg/g) | LOD<br>(µg/g) | LOQ<br>(µg/g) | Action<br>Level<br>(µg/g) |
|--------------------------------------|------------------|---------------|---------------|---------------------------|----------------------------------|------------------|---------------|---------------|---------------------------|
| Abamectin (71751-41-2)               | -                | 0.0193        | 0.154         | 0.5                       | Kresoxim-methyl<br>(143390-89-0) | -                | 0.0193        | 0.154         | 0.4                       |
| Acephate (30560-19-1)                | -                | 0.0193        | 0.154         | 0.4                       | Malathion (121-75-5)             | -                | 0.0193        | 0.154         | 0.2                       |
| Acetaminophen (57960-19-7)           | -                | 0.0193        | 0.154         | 2                         | Metalaxyl (57837-19-1)           | -                | 0.0193        | 0.154         | 0.2                       |
| Acetaminophen (135410-20-7)          | -                | 0.0193        | 0.154         | 0.2                       | Methiocarb (2032-65-7)           | -                | 0.0193        | 0.154         | 0.2                       |
| Aldicarb (116-06-3)                  | -                | 0.0193        | 0.154         | 0.4                       | Methomyl (16752-77-5)            | -                | 0.0193        | 0.154         | 0.4                       |
| Azoxystrobin<br>(131860-33-8)        | -                | 0.0193        | 0.154         | 0.2                       | Methyl parathion<br>(298-0-0)    | -                | 0.0193        | 0.154         | 0.2                       |
| Bifenazate (149877-41-8)             | -                | 0.0193        | 0.154         | 0.2                       | MGK 264 (113-48-4)               | -                | 0.0193        | 0.154         | 0.2                       |
| Bifenthrin (82657-04-3)              | -                | 0.0193        | 0.154         | 0.2                       | Myclobutanil<br>(88671-89-0)     | -                | 0.0193        | 0.154         | 0.2                       |
| Boscalid (188425-85-6)               | -                | 0.0193        | 0.154         | 0.4                       | Naled (300-76-5)                 | -                | 0.0193        | 0.154         | 0.5                       |
| Carbaryl (63-25-2)                   | -                | 0.0193        | 0.154         | 0.2                       | Oxamyl (23135-22-0)              | -                | 0.0193        | 0.154         | 1                         |
| Carbofuran (1563-66-2)               | -                | 0.0193        | 0.154         | 0.2                       | Paclobutrazol<br>(76738-62-0)    | -                | 0.0193        | 0.154         | 0.4                       |
| Chlorantraniliprole<br>(800008-45-7) | -                | 0.0193        | 0.154         | 0.2                       | Permethrins (52645-53-1)         | -                | 0.0193        | 0.154         | 0.2                       |
| Chlorfenapyr<br>(122453-73-0)        | -                | 0.0193        | 0.154         | 1                         | Phosmet (732-11-6)               | -                | 0.0193        | 0.154         | 0.2                       |
| Chlorpyrifos (2921-88-2)             | -                | 0.0193        | 0.154         | 0.2                       | Piperonyl butoxide<br>(51-03-6)  | -                | 0.0193        | 0.154         | 2                         |
| Clofentezine (74115-24-5)            | -                | 0.0193        | 0.154         | 0.2                       | Prallethrin (2331-36-9)          | -                | 0.0193        | 0.154         | 0.2                       |
| Cyfluthrin (68359-37-5)              | -                | 0.0193        | 0.154         | 1                         | Propiconazole<br>(60207-90-1)    | -                | 0.0193        | 0.154         | 0.4                       |
| Cypermethrin<br>(52315-07-8)         | -                | 0.0193        | 0.154         | 1                         | Propoxur (114-26-1)              | -                | 0.0193        | 0.154         | 0.2                       |
| Daminozide (1596-84-5)               | -                | 0.0193        | 0.154         | 1                         | Pyrethrins (8003-34-7)           | -                | 0.0193        | 0.154         | 1                         |
| DDVP (62-73-7)                       | -                | 0.0193        | 0.154         | 0.1                       | Pyridaben (96489-71-3)           | -                | 0.0193        | 0.154         | 0.2                       |
| Diazinon (333-41-5)                  | -                | 0.0193        | 0.154         | 0.2                       | Spinosad (168316-95-8)           | -                | 0.0193        | 0.154         | 0.2                       |
| Dimethoate (60-51-5)                 | -                | 0.0193        | 0.154         | 0.2                       | Spiromesifen<br>(283594-90-1)    | -                | 0.0193        | 0.154         | 0.2                       |
| Ethoprophos (13194-48-4)             | -                | 0.0193        | 0.154         | 0.2                       | Spirotetramat<br>(203313-25-1)   | -                | 0.0193        | 0.154         | 0.2                       |
| Etofenprox (80844-07-1)              | -                | 0.0193        | 0.154         | 0.4                       | Spiroxamine<br>(118134-30-8)     | -                | 0.0193        | 0.154         | 0.4                       |
| Etozazole (153233-91-1)              | -                | 0.0193        | 0.154         | 0.2                       | Tebuconazole<br>(80443-41-0)     | -                | 0.0193        | 0.154         | 0.4                       |
| Fenoxycarb (72490-01-8)              | -                | 0.0193        | 0.154         | 0.2                       | Thiacloprid<br>(111988-49-9)     | -                | 0.0193        | 0.154         | 0.2                       |
| (E)-Fenpyroximate<br>(134098-61-6)   | -                | 0.0193        | 0.154         | 0.4                       | Thiamethoxam<br>(153719-23-4)    | -                | 0.0193        | 0.154         | 0.2                       |
| Fipronil (120068-37-3)               | -                | 0.0193        | 0.154         | 0.4                       | Trifloxystrobin<br>(141517-21-7) | -                | 0.0193        | 0.154         | 0.2                       |
| Flonicamid (158062-67-0)             | -                | 0.0193        | 0.154         | 1                         |                                  |                  |               |               |                           |
| Fludioxinil (131341-86-1)            | -                | 0.0193        | 0.154         | 0.4                       |                                  |                  |               |               |                           |
| Hexythiazox (78587-05-0)             | -                | 0.0193        | 0.154         | 1                         |                                  |                  |               |               |                           |
| Imazalil (35554-44-0)                | -                | 0.0193        | 0.154         | 0.2                       |                                  |                  |               |               |                           |
| Imidacloprid<br>(138261-41-3)        | -                | 0.0193        | 0.154         | 0.4                       |                                  |                  |               |               |                           |



**Color Key**

RESULT < AL

RESULT > AL

"DET" detected less than LOQ

"-" not detected above  
LOD

Permethrins measured as the  
cumulative residue of the *cis*- and  
*trans*- permethrin isomers.

Pyrethrins measured as the  
cumulative residue of the  
pyrethrin I, cinerin I, and jasmolin  
I isomers.

Action levels are referenced from  
the  
State of Arkansas MMJ testing  
guidelines.

A value of "-" for the action level  
means that analyte is not  
currently regulated by the  
regulations referenced above.

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Abbreviations: LC - Liquid Chromatography, MS - Mass Spectrometry, RL - Reporting Limit, AL - Action Level, CAS - Chemical Abstract Services, LOD - Limit of Detection, LOQ - Limit of Quantification

| Pesticide   | Synonym(s) | Pesticide    | Synonym(s) | Pesticide     | Synonym(s) |
|-------------|------------|--------------|------------|---------------|------------|
| Cyfluthrin  | Baythroid  | Myclobutanil | Systhane   | Propiconazole | Tilt       |
| DDVP        | Dichlorvos | Naled        | Dibrom     | Propoxur      | Baygon     |
| Ethoprophos | Prophos    | Phosmet      | Imidan     |               |            |

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| Arkansas   | River Valley Relief Cultivation | <b>Lot Number:</b>       | <b>Matrix:</b> Flower             |
| 232 S. Broadview St.   | 5601 Old Greenwood Rd Suite C   | M00065C13131133770       | <b>Mass:</b> 15g                  |
| Greenbrier, AR 72058   | Fort Smith, AR 72903            | <b>Production Run:</b>   | <b>Date Collected:</b> 12/07/2022 |
| License: ADH 113   | License: 00065C                 | 7014H20221013GVG2        | <b>Date Received:</b> 12/07/2022  |
| <b>Cultivar (Strain) or Sample Description:</b> Guava Gelato |                                 |                          | <b>Date Completed:</b> 12/12/2022 |

**HEAVY METAL PROFILE (SOP: SOP-ICP-200.7)**

|   |                                   |                             |
|---|-----------------------------------|-----------------------------|
| <b>Analysis Date/Time:</b> 12/8/2022 2015 (ICP/OES) | <b>Method:</b> ICP/OES            | <b>Deviations from SOP:</b> |
| <b>Analysis Date/Time:</b> - (DMA)                  | <b>Instrument:</b> Agilent 720-ES | None                        |
| <b>Analyst:</b> KF                                  |                                   |                             |

| <b>Heavy Metal</b> | <b>Result<br/>(µg/kg)</b> | <b>LOD<br/>(µg/kg)</b> | <b>LOQ<br/>(µg/kg)</b> | <b>Action Level<br/>(µg/kg)</b> |
|--------------------|---------------------------|------------------------|------------------------|---------------------------------|
| Arsenic (As)       | -                         | 58.0                   | 91.9                   | 200                             |
| Cadmium (Cd)       | -                         | 58.0                   | 91.9                   | 200                             |
| Lead (Pb)          | -                         | 58.0                   | 91.9                   | 500                             |
| Mercury (Hg)       | -                         | 58.0                   | 91.9                   | 100                             |



**Abbreviations:** ICP - Inductively-Coupled Plasma, OES - Optical Emission Spectroscopy,  
DMA - Direct Mercury Analyzer, RL - Reporting Limit, AL - Action Level, LOD - Limit of Detection, LOQ - Limit of Quantitation

**Color Key**

|                       |
|-----------------------|
| <b>RESULT &lt; AL</b> |
| <b>RESULT &gt; AL</b> |

"DET" detected less than LOQ

"-" not detected above LOD

Action levels for heavy metals are referenced from the State of Arkansas MMJ testing guidelines.

**Disclaimer:** This information is provided as a service and makes no claims of efficacy and/or safety of this product. Results are applicable only for the sample(s) analyzed and for the specific analysis conducted. This report is for informational purposes only and should not be used to diagnose, treat, or prevent any medical-related symptoms. The statements and results herein have not been approved and/or endorsed by the FDA.

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*Kyle W. Felling*  
Kyle W. Felling, Ph.D.  
Laboratory Director





**CERTIFICATE OF ANALYSIS (SAMPLE ID: SA33647)**

|  |                                 |                           |                                   |
|--|---------------------------------|---------------------------|-----------------------------------|
| <b>Testing Location:</b>                                     | <b>Customer ID:</b> 2161        | <b>Sample ID:</b> SA33647 | <b>Sample Type:</b> Primary       |
| Arkansas   | River Valley Relief Cultivation | <b>Lot Number:</b>        | <b>Matrix:</b> Flower             |
| 232 S. Broadview St.   | 5601 Old Greenwood Rd Suite C   | M00065C13131133770        | <b>Mass:</b> 15g                  |
| Greenbrier, AR 72058   | Fort Smith, AR 72903            | <b>Production Run:</b>    | <b>Date Collected:</b> 12/07/2022 |
| License: ADA 05_H273   | License: 00065C                 | 7014H20221013GVG2         | <b>Date Received:</b> 12/07/2022  |
| <b>Cultivar (Strain) or Sample Description:</b> Guava Gelato |                                 |                           | <b>Date Completed:</b> 12/12/2022 |

**MICROBIOLOGICAL PROFILE (SOP: SOP-Micro-001)**

|  |   |                             |
|--|---|-----------------------------|
| <b>Analysis Date/Time:</b> 20221209 1109 | <b>Method:</b> Hardy Diagnostics CompactDry | <b>Deviations from SOP:</b> |
| <b>Analyst:</b> PW                       | <b>Instrument:</b> Thermo Incubator         | None                        |

| <b>Bacteria/Microbe</b>    | <b>Result (CFU/g)</b> | <b>Action Level (CFU/g)</b> |
|----------------------------|-----------------------|-----------------------------|
| Aerobic Plate Count        | NT                    | -                           |
| Coliforms, Total           | Absent                | 1                           |
| Escherichia Coli (E. Coli) | Absent                | 100                         |
| Mold/Yeast                 | NT                    | -                           |
| Pseudomonas aeruginosa     | NT                    | 1                           |
| Salmonella spp.            | NT                    | -                           |
| Staphylococcus aureus      | NT                    | -                           |



**Abbreviations:** EC - Escherichia Coli, CFU - Colony-Forming Unit, RL - Reporting Limit,  
AL - Action Level, TNTC - Too Numerous To Count, NT - Not Tested  
Absent - Not Detected Above RL, Present - Detected Above RL

**Color Key**

RESULT < AL

RESULT > AL

**Reporting Limit (CFU/g)**

1

Action levels for microbiology are referenced from the State of Arkansas MMJ testing guidelines.  
A value of "-" for the action level means that analyte is not currently regulated by the regulations referenced above.

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