

**SUMMARY OF ANALYSIS (SAMPLE ID: SA36333)**

<b>Testing Location:</b>	<b>Customer ID:</b> 2161	<b>Order ID:</b> OR10682	<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	M00065C13136141341	<b>Mass:</b> 18g
Greenbrier, AR 72058	Fort Smith, AR 72903	<b>Production Run:</b>	<b>Date Collected:</b> 10/30/2023
License: ADH 113	License: 00065C	3045H20230926GVG-2	<b>Date Received:</b> 10/31/2023
<b>Cultivar (Strain) or Sample Description:</b> Guava Gelato			<b>Date Completed:</b> 11/01/2023

\*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 (%)**

12.5

**Water Activity (aw)**

0.460 @ 24.4°C

**PASS/FAIL**

**PASS**

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

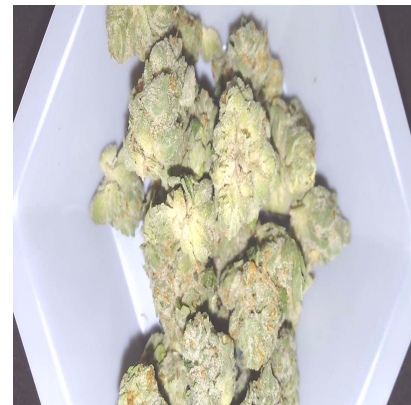
Moisture content levels less than 15% are recommended but the sample does not fail. Water activity levels must be less than 0.65aw.

<b>Cannabinoids (Top 3)</b>	<b>(%)</b>	<b>mg/g</b>
THCA	31.1	311
CBGA	1.42	14.2
Δ9-THC	0.274	2.74
TOTAL CBD	-	-
TOTAL THC	27.5	275
TOTAL CANNABINOIDS	32.9	329

<b>Terpenes (Top 5)</b>	<b>(%)</b>	<b>µg/g</b>
d-Limonene	0.495	4950
β-Caryophyllene	0.255	2550
β-Myrcene	0.175	1750
Linalool	0.130	1300
β-Pinene	0.124	1240
TOTAL TERPENES	1.55	15500

<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: SA36333)

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Greenbrier, AR 72058	Fort Smith, AR 72903	<b>Production Run:</b>	<b>Date Collected:</b> 10/30/2023
License: ADH 113	License: 00065C	3045H20230926GVG-2	<b>Date Received:</b> 10/31/2023
<b>Cultivar (Strain) or Sample Description:</b> Guava Gelato			<b>Date Completed:</b> 11/01/2023

### CANNABINOID (POTENCY) PROFILE (SOP: SOP-CANN-001)

**Analysis Date/Time:** 10/31/2023 1650

**Method:** HPLC/DAD

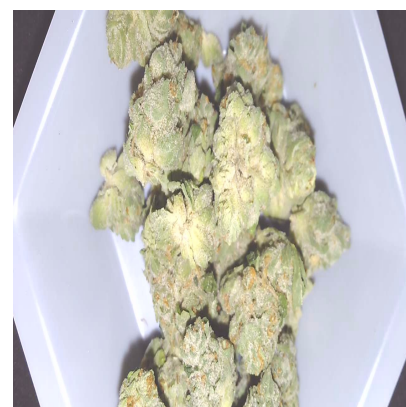
**Moisture Content (%):** 12.5

**Analyst:** PW

**Instrument:** Agilent 1100

**Water Activity (aw):** 0.460 @ 24.4°C

<u>Cannabinoid</u>	<u>Result</u> (%)	<u>Result</u> (mg/g)	<u>LOD</u> (mg/g)	<u>LOQ</u> (mg/g)	<u>Result</u> (mg/ mL)	<u>Per</u> <u>Serving</u> (mg)	<u>Per</u> <u>Unit</u> (mg)
CBC	ND	ND	0.0405	0.0946	-	-	-
CBCA	ND	ND	0.126	0.294	-	-	-
CBD	ND	ND	0.286	0.668	-	-	-
CBDA	ND	ND	0.105	0.246	-	-	-
CBDV	ND	ND	0.0459	0.107	-	-	-
CBDVA	ND	ND	0.122	0.286	-	-	-
CBG	ND	ND	0.186	0.434	-	-	-
CBGA	1.42	14.2	0.263	0.311	-	12.4	12.4
CBL	ND	ND	0.214	0.501	-	-	-
CBN	ND	ND	0.0985	0.230	-	-	-
CBNA	ND	ND	0.106	0.248	-	-	-
Δ9-THC	0.274	2.74	0.118	0.275	-	2.40	2.40
Δ8-THC	ND	ND	0.184	0.430	-	-	-
THCA	31.1	311	0.0640	0.150	-	272	272
THCV	ND	ND	0.154	0.358	-	-	-
THCVA	0.114	1.14	0.0491	0.114	-	0.999	0.999
<b>TOTAL</b>	<b>32.9</b>	<b>329</b>			-	<b>288</b>	<b>288</b>
<b>TOTAL CBC</b>	-	-			-	-	-
<b>TOTAL CBD</b>	-	-			-	-	-
<b>TOTAL CBDV</b>	-	-			-	-	-
<b>TOTAL CBG</b>	1.25	12.5			-	10.9	10.9
<b>TOTAL CBN</b>	-	-			-	-	-
<b>TOTAL THC</b>	27.5	275			-	241	241
<b>TOTAL THCV</b>	0.0990	0.990			-	0.866	0.866



**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 THCV = (THCVA x 0.867) + THCV

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Percentage results are reported by mass.

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

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Kyle W. Felling  
Laboratory Director



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Greenbrier, AR 72058	Fort Smith, AR 72903	<b>Production Run:</b>	<b>Date Collected:</b> 10/30/2023
License: ADH 113	License: 00065C	3045H20230926GVG-2	<b>Date Received:</b> 10/31/2023
<b>Cultivar (Strain) or Sample Description:</b> Guava Gelato			<b>Date Completed:</b> 11/01/2023

### TERPENOID PROFILE

**Analysis Date/Time:** 11/1/2023 0100

**Method:** GC/MS

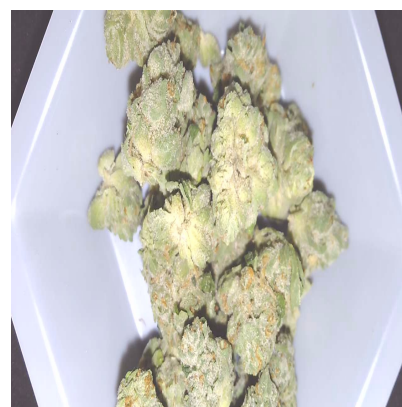
**Deviations from SOP:**

**Analyst:** KF

**Instrument:** Agilent 7890/5975

None

<u>Terpene</u>	<u>Result</u> (µg/g)	<u>Result</u> (%)	
α-Bisabolol	622	0.0622	
Camphene	148	0.0148	
δ-3-Carene	ND	-	
β-Caryophyllene	2550	0.255	
Caryophyllene oxide	ND	-	
p-Cymene	ND	-	
Eucalyptol	ND	-	
Geraniol	ND	-	
Guaiol	919	0.0919	
α-Humulene	948	0.0948	
Isopulegol	ND	-	
d-Limonene	4950	0.495	
Linalool	1300	0.130	
β-Myrcene	1750	0.175	
cis-Nerolidol	385	0.0385	
trans-Nerolidol	267	0.0267	
α-Ocimene	ND	-	
β-Ocimene	ND	-	
α-Pinene	415	0.0415	
β-Pinene	1240	0.124	
α-Terpinene	ND	-	
γ-Terpinene	ND	-	
Terpinolene	ND	-	
<b>TOTAL</b>	<b>15500</b>	<b>1.55</b>	



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

**Abbreviations:** ND - Not Detected, , LOD - Limit of Detection, LOQ - Limit of Quantitation

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**Reporting Limit (µg/g):** 74.1

"-" Not detected above LOD.

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



## CERTIFICATE OF ANALYSIS (SAMPLE ID: SA36333)

<b>Testing Location:</b> Arkansas 232 S. Broadview St. Greenbrier, AR 72058 License: ADH 113	<b>Customer ID:</b> 2161 River Valley Relief Cultivation 5601 Old Greenwood Rd Suite C Fort Smith, AR 72903 License: 00065C	<b>Order ID:</b> OR10682 <b>Lot Number:</b> M00065C13136141341 <b>Production Run:</b> 3045H20230926GVG-2	<b>Sample Type:</b> Primary <b>Matrix:</b> Flower <b>Mass:</b> 18g <b>Date Collected:</b> 10/30/2023 <b>Date Received:</b> 10/31/2023
<b>Cultivar (Strain) or Sample Description:</b> Guava Gelato			<b>Date Completed:</b> 11/01/2023

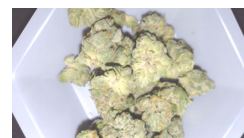
### PESTICIDES PROFILE (SOP: SOP-PEST-001)

**Analysis Date/Time:** 10/31/2023 1741  
**Analyst:** KF

**Method:** LC/MS/MS  
**Instrument:** Shimadzu LC-8050

**Deviations from SOP:**  
None

Pesticide	Result (µg/g)	LOD (µg/g)	LOQ (µg/g)	Action Level (µg/g)	Pesticide	Result (µg/g)	LOD (µg/g)	LOQ (µg/g)	Action Level (µg/g)
Abamectin (71751-41-2)	-	0.0442	0.353	0.5	Kresoxim-methyl (143390-89-0)	-	0.0442	0.353	0.4
Acephate (30560-19-1)	-	0.0442	0.353	0.4	Malathion (121-75-5)	-	0.0442	0.353	0.2
Acetaminophen (57960-19-7)	-	0.0442	0.353	2	Metalaxyl (57837-19-1)	-	0.0442	0.353	0.2
Acetamiprid (135410-20-7)	-	0.0442	0.353	0.2	Methiocarb (2032-65-7)	-	0.0442	0.353	0.2
Aldicarb (116-06-3)	-	0.0442	0.353	0.4	Methomyl (16752-77-5)	-	0.0442	0.353	0.4
Azoxystrobin (131860-33-8)	-	0.0442	0.353	0.2	Methyl parathion (298-0-0)	-	0.0442	0.353	0.2
Bifenazate (149877-41-8)	-	0.0442	0.353	0.2	MGK 264 (113-48-4)	-	0.0442	0.353	0.2
Bifenthrin (82657-04-3)	-	0.0442	0.353	0.2	Myclobutanil (88671-89-0)	-	0.0442	0.353	0.2
Boscalid (188425-85-6)	-	0.0442	0.353	0.4	Naled (300-76-5)	-	0.0442	0.353	0.5
Carbaryl (63-25-2)	-	0.0442	0.353	0.2	Oxamyl (23135-22-0)	-	0.0442	0.353	1
Carbofuran (1563-66-2)	-	0.0442	0.353	0.2	Paclobutrazol (76738-62-0)	-	0.0442	0.353	0.4
Chlorantraniliprole (800008-45-7)	-	0.0442	0.353	0.2	Permethrins (52645-53-1)	-	0.0442	0.353	0.2
Chlorfenapyr (122453-73-0)	-	0.0442	0.353	1	Phosmet (732-11-6)	-	0.0442	0.353	0.2
Chlorpyrifos (2921-88-2)	-	0.0442	0.353	0.2	Piperonyl butoxide (51-03-6)	-	0.0442	0.353	2
Clofentezine (74115-24-5)	-	0.0442	0.353	0.2	Prallethrin (2331-36-9)	-	0.0442	0.353	0.2
Cyfluthrin (68359-37-5)	-	0.0442	0.353	1	Propiconazole (60207-90-1)	-	0.0442	0.353	0.4
Cypermethrin (52315-07-8)	-	0.0442	0.353	1	Propoxur (114-26-1)	-	0.0442	0.353	0.2
Daminozide (1596-84-5)	-	0.0442	0.353	1	Pyrethrins (8003-34-7)	-	0.0442	0.353	1
DDVP (62-73-7)	-	0.0442	0.353	0.1	Pyridaben (96489-71-3)	-	0.0442	0.353	0.2
Diazinon (333-41-5)	-	0.0442	0.353	0.2	Spinosad (168316-95-8)	-	0.0442	0.353	0.2
Dimethoate (60-51-5)	-	0.0442	0.353	0.2	Spiromesifen (283594-90-1)	-	0.0442	0.353	0.2
Ethoprophos (13194-48-4)	-	0.0442	0.353	0.2	Spirotetramat (203313-25-1)	-	0.0442	0.353	0.2
Etofenprox (80844-07-1)	-	0.0442	0.353	0.4	Spiroxamine (118134-30-8)	-	0.0442	0.353	0.4
Etazoxole (153233-91-1)	-	0.0442	0.353	0.2	Tebuconazole (80443-41-0)	-	0.0442	0.353	0.4
Fenoxycarb (72490-01-8)	-	0.0442	0.353	0.2	Thiacloprid (111988-49-9)	-	0.0442	0.353	0.2
(E)-Fenpyroximate (134098-61-6)	-	0.0442	0.353	0.4	Thiamethoxam (153719-23-4)	-	0.0442	0.353	0.2
Fipronil (120068-37-3)	-	0.0442	0.353	0.4	Trifloxystrobin (141517-21-7)	-	0.0442	0.353	0.2
Flonicamid (158062-67-0)	-	0.0442	0.353	1					
Fludioxinil (131341-86-1)	-	0.0442	0.353	0.4					
Hexythiazox (78587-05-0)	-	0.0442	0.353	1					
Imazalil (35554-44-0)	-	0.0442	0.353	0.2					
Imidacloprid (138261-41-3)	-	0.0442	0.353	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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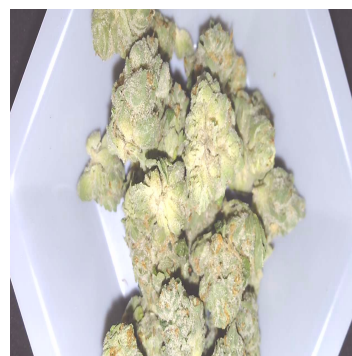
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**HEAVY METAL PROFILE (SOP: SOP-ICP-200.6)**

<b>Analysis Date/Time:</b> 10/31/2023 1750 (ICP/OES)	<b>Method:</b> ICP/MS	<b>Deviations from SOP:</b>
<b>Analysis Date/Time:</b> - (DMA)	<b>Instrument:</b> Agilent 7500ce	None
<b>Analyst:</b> KF		

<u>Heavy Metal</u>	<u>Result</u> (µg/kg)	<u>LOD</u> (µg/kg)	<u>LOQ</u> (µg/kg)	<u>Action Level</u> (µg/kg)
Arsenic (As)	-	58.4	92.5	200
Cadmium (Cd)	-	58.4	92.5	200
Lead (Pb)	-	58.4	92.5	500
Mercury (Hg)	-	58.4	92.5	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.

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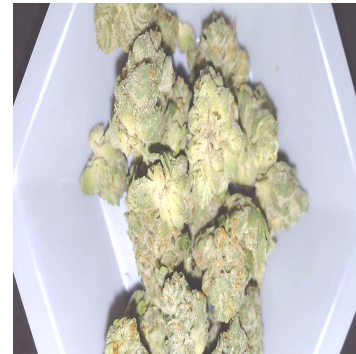
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License: ADA 05_H273	License: 00065C	3045H20230926GVG-2	<b>Date Received:</b> 10/31/2023
<b>Cultivar (Strain) or Sample Description:</b> Guava Gelato			<b>Date Completed:</b> 11/01/2023

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

**Analysis Date/Time:** 11/01/2023 0904  
**Analyst:** PW  
**Method:** Hardy Diagnostics CompactDry  
**Instrument:** Thermo Incubator  
**Deviations from SOP:** 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	-
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.  
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