

SUMMARY OF ANALYSIS (SAMPLE ID: SA36832)

Testing Location: Arkansas 232 S. Broadview St. Greenbrier, AR 72058 License: ADH 113	Customer ID: 2161 River Valley Relief Cultivation 5601 Old Greenwood Rd Suite C Fort Smith, AR 72903 License: 00065C	Order ID: OR10811 Lot Number: M00065C13138703790 Production Run: 7049H20231122GVG-1	Sample Type: Primary Matrix: Flower Mass: 17g Date Collected: 01/08/2024 Date Received: 01/08/2024 Date Completed: 01/10/2024
Cultivar (Strain) or Sample Description: Guava Gelato			

*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 (%)

10.8

Water Activity (aw)

0.427 @ 24.1°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.

Cannabinoids (Top 3)	(%)	mg/g
THCA	32.3	323
CBGA	1.91	19.1
Δ9-THC	0.426	4.26
TOTAL CBD	-	-
TOTAL THC	28.7	287
TOTAL CANNABINOIDS	35.0	350

Terpenes (Top 5)	(%)	µg/g
d-Limonene	0.281	2810
β-Myrcene	0.233	2330
Linalool	0.145	1450
β-Pinene	0.0970	970
β-Caryophyllene	0.0851	851
TOTAL TERPENES	1.02	10200

Contaminants	PASS/FAIL
Heavy Metals:	PASS
Microbiology:	PASS
Pesticides:	PASS

Sample Picture Upon Receipt



Scan the QR code to verify results.

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Thank you always! H7049

REPORT OF LABORATORY ANALYSIS

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

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CERTIFICATE OF ANALYSIS (SAMPLE ID: SA36832)

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

Analysis Date/Time: 01/09/2024 1311 **Method:** HPLC/DAD **Moisture Content (%):** 10.8
Analyst: PW **Instrument:** Agilent 1100 **Water Activity (aw):** 0.427 @ 24.1°C

<u>Cannabinoid</u>	<u>Result (%)</u>	<u>Result (mg/g)</u>	<u>LOD (mg/g)</u>	<u>LOQ (mg/g)</u>	<u>Result (mg/mL)</u>	<u>Per Serving (mg)</u>	<u>Per Unit (mg)</u>
CBC	ND	ND	0.0429	0.100	-	-	-
CBCA	0.255	2.55	0.133	0.311	-	2.28	2.28
CBD	ND	ND	0.303	0.707	-	-	-
CBDA	ND	ND	0.112	0.260	-	-	-
CBDV	ND	ND	0.0486	0.113	-	-	-
CBDVA	ND	ND	0.130	0.302	-	-	-
CBG	ND	ND	0.197	0.459	-	-	-
CBGA	1.91	19.1	0.279	0.329	-	17.0	17.0
CBL	ND	ND	0.227	0.530	-	-	-
CBN	ND	ND	0.104	0.244	-	-	-
CBNA	ND	ND	0.113	0.263	-	-	-
Δ9-THC	0.426	4.26	0.125	0.292	-	3.80	3.80
Δ8-THC	ND	ND	0.195	0.455	-	-	-
THCA	32.3	323	0.0678	0.159	-	288	288
THCV	ND	ND	0.163	0.379	-	-	-
THCVA	0.105	1.05	0.0520	0.121	-	0.941	0.941
TOTAL	35.0	350				312	312
TOTAL CBC	0.224	2.24				2.00	2.00
TOTAL CBD	-	-				-	-
TOTAL CBDV	-	-				-	-
TOTAL CBG	1.68	16.8				14.9	14.9
TOTAL CBN	-	-				-	-
TOTAL THC	28.7	287				256	256
TOTAL THC V	0.0914	0.914				0.816	0.816



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 THC V = (THCVA x 0.867) + THC V

Percentage results are reported by mass.

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

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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Cultivar (Strain) or Sample Description: Guava Gelato			Date Completed: 01/10/2024

TERPENOID PROFILE

Analysis Date/Time: 01/09/2024 1651
Analyst: KF

Method: GC/MS
Instrument: Agilent 7890/5975

Deviations from SOP:
None

Terpene	Result (µg/g)	Result (%)
α-Bisabolol	7.69	0.000769
Camphene	192	0.0192
δ-3-Carene	9.62	0.000962
β-Caryophyllene	851	0.0851
Caryophyllene oxide	7.05	0.000705
p-Cymene	19.2	0.00192
Eucalyptol	1.92	0.000192
Geraniol	ND	-
Guaiol	46.2	0.00462
α-Humulene	459	0.0459
Isopulegol	<LOQ	-
d-Limonene	2810	0.281
Linalool	1450	0.145
β-Myrcene	2330	0.233
cis-Nerolidol	ND	-
trans-Nerolidol	73.1	0.00731
α-Ocimene	51.9	0.00519
β-Ocimene	194	0.0194
α-Pinene	657	0.0657
β-Pinene	970	0.0970
α-Terpinene	8.33	0.000833
γ-Terpinene	10.9	0.00109
Terpinolene	60.3	0.00603
TOTAL	10200	1.02



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): 1.60

"-" Not detected above LOD.

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

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PESTICIDES PROFILE (SOP: SOP-PEST-001)

Analysis Date/Time: 01/09/2024 1352
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)	-	0.0469	0.375	0.5	Kresoxim-methyl (143390-89-0)	-	0.0469	0.375	0.4
Acephate (30560-19-1)	-	0.0469	0.375	0.4	Malathion (121-75-5)	-	0.0469	0.375	0.2
Acetamiprid (135410-20-7)	-	0.0469	0.375	0.2	Metalaxyl (57837-19-1)	-	0.0469	0.375	0.2
Aldicarb (116-06-3)	-	0.0469	0.375	0.4	Methiocarb (2032-65-7)	-	0.0469	0.375	0.2
Azoxystrobin (131860-33-8)	-	0.0469	0.375	0.2	Methomyl (16752-77-5)	-	0.0469	0.375	0.4
Bifenazate (149877-41-8)	-	0.0469	0.375	0.2	Methyl parathion (298-0-0)	-	0.0469	0.375	0.2
Bifenthrin (82657-04-3)	-	0.0469	0.375	0.2	MGK 264 (113-48-4)	-	0.0469	0.375	0.2
Boscalid (188425-85-6)	-	0.0469	0.375	0.4	Myclobutanil (88671-89-0)	-	0.0469	0.375	0.2
Carbaryl (63-25-2)	-	0.0469	0.375	0.2	Naled (300-76-5)	-	0.0469	0.375	0.5
Carbofuran (1563-66-2)	-	0.0469	0.375	0.2	Oxamyl (23135-22-0)	-	0.0469	0.375	1
Chlorantraniliprole (800008-45-7)	-	0.0469	0.375	0.2	Pacllobutrazol (76738-62-0)	-	0.0469	0.375	0.4
Chlorfenapyr (122453-73-0)	-	0.0469	0.375	1	Permethrins (52645-53-1)	-	0.0469	0.375	0.2
Chlorpyrifos (2921-88-2)	-	0.0469	0.375	0.2	Phosmet (732-11-6)	-	0.0469	0.375	0.2
Clofentezine (74115-24-5)	-	0.0469	0.375	0.2	Piperonyl butoxide (51-03-6)	-	0.0469	0.375	2
Cyfluthrin (68359-37-5)	-	0.0469	0.375	1	Prallethrins (2331-36-9)	-	0.0469	0.375	0.2
Cypermethrin (52315-07-8)	-	0.0469	0.375	1	Propiconazole (60207-90-1)	-	0.0469	0.375	0.4
Daminozide (1596-84-5)	-	0.0469	0.375	1	Propoxur (114-26-1)	-	0.0469	0.375	0.2
DDVP (62-73-7)	-	0.0469	0.375	0.1	Pyrethrins (8003-34-7)	-	0.0469	0.375	1
Diazinon (333-41-5)	-	0.0469	0.375	0.2	Pyridaben (96489-71-3)	-	0.0469	0.375	0.2
Dimethoate (60-51-5)	-	0.0469	0.375	0.2	Spinosad (168316-95-8)	-	0.0469	0.375	0.2
Ethoprophos (13194-48-4)	-	0.0469	0.375	0.2	Spiromesifen (283594-90-1)	-	0.0469	0.375	0.2
Etofenprox (80844-07-1)	-	0.0469	0.375	0.4	Spirotetramat (203313-25-1)	-	0.0469	0.375	0.2
Etoxazole (153233-91-1)	-	0.0469	0.375	0.2	Spiroxamine (118134-30-8)	-	0.0469	0.375	0.4
Fenoxycarb (72490-01-8)	-	0.0469	0.375	0.2	Tebuconazole (80443-41-0)	-	0.0469	0.375	0.4
(E)-Fenpyroximate (134098-61-6)	-	0.0469	0.375	0.4	Thiacloprid (111988-49-9)	-	0.0469	0.375	0.2
Fipronil (120068-37-3)	-	0.0469	0.375	0.4	Thiamethoxam (153719-23-4)	-	0.0469	0.375	0.2
Fonicamid (158062-67-0)	-	0.0469	0.375	1	Trifloxystrobin (141517-21-7)	-	0.0469	0.375	0.2
Fludioxinil (131341-86-1)	-	0.0469	0.375	0.4					
Hexythiazox (78587-05-0)	-	0.0469	0.375	1					
Imazalil (35554-44-0)	-	0.0469	0.375	0.2					
Imidacloprid (138261-41-3)	-	0.0469	0.375	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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HEAVY METAL PROFILE (SOP: SOP-ICP-200.6)

Analysis Date/Time: 01/09/2024 1659 (ICP/OES) **Method:** ICP/MS **Deviations from SOP:**
Analysis Date/Time: - (DMA) **Instrument:** Agilent 7500ce None
Analyst: KF

<u>Heavy Metal</u>	<u>Result (µg/kg)</u>	<u>LOD (µg/kg)</u>	<u>LOQ (µg/kg)</u>	<u>Action Level (µg/kg)</u>
Arsenic (As)	-	57.0	90.2	200
Cadmium (Cd)	-	57.0	90.2	200
Lead (Pb)	-	57.0	90.2	500
Mercury (Hg)	-	57.0	90.2	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

RESULT < AL
RESULT > AL

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

Analysis Date/Time: 01/10/2024 1027 **Method:** Hardy Diagnostics CompactDry **Deviations from SOP:**
Analyst: PW **Instrument:** Thermo Incubator None

<u>Bacteria/Microbe</u>	<u>Result (CFU/g)</u>	<u>Action Level (CFU/g)</u>
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

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