

SUMMARY OF ANALYSIS (SAMPLE ID: SA35604)

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: OR10527 Lot Number: M00065C13133204996 Production Run: 1036H20230612GVG-1	Sample Type: Primary Matrix: Flower Mass: 23g Date Collected: 07/10/2023 Date Received: 07/10/2023 Date Completed: 07/11/2023
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 (%)

11.4

Water Activity (aw)

0.484 @ 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.

Cannabinoids (Top 3)	(%)	mg/g
THCA	32.5	325
CBGA	2.00	20.0
Δ9-THC	0.253	2.53
TOTAL CBD	-	-
TOTAL THC	28.8	288
TOTAL CANNABINOIDS	35.0	350

Terpenes (Top 5)	(%)	µg/g
β-Myrcene	0.299	2990
d-Limonene	0.298	2980
β-Caryophyllene	0.0983	983
Linalool	0.0590	590
β-Pinene	0.0414	414
TOTAL TERPENES	0.880	8800

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

www.FASTLaboratories.com



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

Analysis Date/Time: 07/11/2023 1214 **Method:** HPLC/DAD **Moisture Content (%):** 11.4
Analyst: PW **Instrument:** Agilent 1100 **Water Activity (aw):** 0.484 @ 24.2°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	0.0396	0.0925	-	-	-
CBCA	ND	ND	0.123	0.287	-	-	-
CBD	ND	ND	0.280	0.653	-	-	-
CBDA	ND	ND	0.103	0.240	-	-	-
CBDV	ND	ND	0.0449	0.105	-	-	-
CBDVA	ND	ND	0.120	0.279	-	-	-
CBG	0.0563	0.563	0.182	0.424	-	0.499	0.499
CBGA	2.00	20.0	0.257	0.304	-	17.7	17.7
CBL	ND	ND	0.210	0.490	-	-	-
CBN	ND	ND	0.0963	0.225	-	-	-
CBNA	ND	ND	0.104	0.242	-	-	-
Δ9-THC	0.253	2.53	0.115	0.269	-	2.24	2.24
Δ8-THC	ND	ND	0.180	0.420	-	-	-
THCA	32.5	325	0.0626	0.146	-	288	288
THCV	ND	ND	0.150	0.350	-	-	-
THCVA	0.164	1.64	0.0480	0.112	-	1.46	1.46
TOTAL	35.0	350				310	310
TOTAL CBC	-	-				-	-
TOTAL CBD	-	-				-	-
TOTAL CBDV	-	-				-	-
TOTAL CBG	1.81	18.1				16.1	16.1
TOTAL CBN	-	-				-	-
TOTAL THC	28.8	288				255	255
TOTAL THC V	0.142	1.42				1.26	1.26



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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TERPENOID PROFILE

Analysis Date/Time: 07/11/2023 1320
Analyst: KF

Method: GC/MS
Instrument: Agilent 7890/5975

Deviations from SOP:
None

<u>Terpene</u>	<u>Result (µg/g)</u>	<u>Result (%)</u>	
α-Bisabolol	ND	-	
Camphene	97.9	0.00979	
δ-3-Carene	ND	-	
β-Caryophyllene	983	0.0983	■
Caryophyllene oxide	ND	-	
p-Cymene	15.2	0.00152	
Eucalyptol	ND	-	
Geraniol	ND	-	
Guaiol	ND	-	
α-Humulene	264	0.0264	■
Isopulegol	ND	-	
d-Limonene	2980	0.298	■
Linalool	590	0.0590	■
β-Myrcene	2990	0.299	■
cis-Nerolidol	ND	-	
trans-Nerolidol	64.5	0.00645	
α-Ocimene	ND	-	
β-Ocimene	40.7	0.00407	
α-Pinene	332	0.0332	■
β-Pinene	414	0.0414	■
α-Terpinene	ND	-	
γ-Terpinene	ND	-	
Terpinolene	36.4	0.00364	
TOTAL	8800	0.880	



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): -

"-" Not detected above LOD.

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



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PESTICIDES PROFILE (SOP: SOP-PEST-001)

Analysis Date/Time: 07/11/2023 1340		Method: LC/MS/MS		Deviations from SOP:					
Analyst: KF		Instrument: Shimadzu LC-8050		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)	-	0.0435	0.348	0.5	Kresoxim-methyl (143390-89-0)	-	0.0435	0.348	0.4
Acephate (30560-19-1)	-	0.0435	0.348	0.4	Malathion (121-75-5)	-	0.0435	0.348	0.2
Acetaminocyl (57960-19-7)	-	0.0435	0.348	2	Metalaxyl (57837-19-1)	-	0.0435	0.348	0.2
Acetamiprid (135410-20-7)	-	0.0435	0.348	0.2	Methiocarb (2032-65-7)	-	0.0435	0.348	0.2
Aldicarb (116-06-3)	-	0.0435	0.348	0.4	Methomyl (16752-77-5)	-	0.0435	0.348	0.4
Azoxystrobin (131860-33-8)	-	0.0435	0.348	0.2	Methyl parathion (298-0-0)	-	0.0435	0.348	0.2
Bifenazate (149877-41-8)	-	0.0435	0.348	0.2	MGK 264 (113-48-4)	-	0.0435	0.348	0.2
Bifenthrin (82657-04-3)	-	0.0435	0.348	0.2	Myclobutanil (88671-89-0)	-	0.0435	0.348	0.2
Boscalid (188425-85-6)	-	0.0435	0.348	0.4	Naled (300-76-5)	-	0.0435	0.348	0.5
Carbaryl (63-25-2)	-	0.0435	0.348	0.2	Oxamyl (23135-22-0)	-	0.0435	0.348	1
Carbofuran (1563-66-2)	-	0.0435	0.348	0.2	Pacllobutrazol (76738-62-0)	-	0.0435	0.348	0.4
Chlorantraniliprole (800008-45-7)	-	0.0435	0.348	0.2	Permethrins (52645-53-1)	-	0.0435	0.348	0.2
Chlorfenapyr (122453-73-0)	-	0.0435	0.348	1	Phosmet (732-11-6)	-	0.0435	0.348	0.2
Chlorpyrifos (2921-88-2)	-	0.0435	0.348	0.2	Piperonyl butoxide (51-03-6)	-	0.0435	0.348	2
Clofentezine (74115-24-5)	-	0.0435	0.348	0.2	Prallethrins (2331-36-9)	-	0.0435	0.348	0.2
Cyfluthrin (68359-37-5)	-	0.0435	0.348	1	Propiconazole (60207-90-1))	-	0.0435	0.348	0.4
Cypermethrin (52315-07-8)	-	0.0435	0.348	1	Propoxur (114-26-1)	-	0.0435	0.348	0.2
Daminozide (1596-84-5)	-	0.0435	0.348	1	Pyrethrins (8003-34-7)	-	0.0435	0.348	1
DDVP (62-73-7)	-	0.0435	0.348	0.1	Pyridaben (96489-71-3)	-	0.0435	0.348	0.2
Diazinon (333-41-5)	-	0.0435	0.348	0.2	Spinosad (168316-95-8)	-	0.0435	0.348	0.2
Dimethoate (60-51-5)	-	0.0435	0.348	0.2	Spiromesifen (283594-90-1)	-	0.0435	0.348	0.2
Ethoprophos (13194-48-4)	-	0.0435	0.348	0.2	Spirotetramat (203313-25-1)	-	0.0435	0.348	0.2
Etofenprox (80844-07-1)	-	0.0435	0.348	0.4	Spiroxamine (118134-30-8)	-	0.0435	0.348	0.4
Etoxazole (153233-91-1)	-	0.0435	0.348	0.2	Tebuconazole (80443-41-0)	-	0.0435	0.348	0.4
Fenoxycarb (72490-01-8)	-	0.0435	0.348	0.2	Thiacloprid (111988-49-9)	-	0.0435	0.348	0.2
(E)-Fenpyroximate (134098-61-6)	-	0.0435	0.348	0.4	Thiamethoxam (153719-23-4)	-	0.0435	0.348	0.2
Fipronil (120068-37-3)	-	0.0435	0.348	0.4	Trifloxystrobin (141517-21-7)	-	0.0435	0.348	0.2
Fonicamid (158062-67-0)	-	0.0435	0.348	1					
Fludioxinil (131341-86-1)	-	0.0435	0.348	0.4					
Hexythiazox (78587-05-0)	-	0.0435	0.348	1					
Imazalil (35554-44-0)	-	0.0435	0.348	0.2					
Imidacloprid (138261-41-3)	-	0.0435	0.348	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	Sythane	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: 07/11/2023 1246 (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)	-	58.7	92.9	200
Cadmium (Cd)	-	58.7	92.9	200
Lead (Pb)	-	58.7	92.9	500
Mercury (Hg)	-	58.7	92.9	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

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: 07/11/2023 1126 **Method:** Hardy Diagnostics CompactDry **Deviations from SOP:**
Analyst: PW **Instrument:** Thermo Incubator None

Bacteria/Microbe	Result (CFU/g)	Action Level (CFU/g)
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 (Green background)

RESULT > AL (Red background)

Reporting Limit (CFU/g)
1

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