

SUMMARY OF ANALYSIS (SAMPLE ID: SA35735)

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: OR10550 Lot Number: M00065C13138547764 Production Run: 2037H0628GVA-1	Sample Type: Primary Matrix: Flower Mass: 12g Date Collected: 07/31/2023 Date Received: 07/31/2023
Cultivar (Strain) or Sample Description: Guava			Date Completed: 08/03/2023

*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 (%)

12.0

Water Activity (aw)

0.539 @ 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.

Cannabinoids (Top 3)	(%)	mg/g
THCA	29.9	299
CBGA	1.65	16.5
Δ9-THC	0.507	5.07
TOTAL CBD	-	-
TOTAL THC	26.8	268
TOTAL CANNABINOIDS	32.2	322

Terpenes (Top 5)	(%)	µg/g
d-Limonene	0.331	3310
β-Caryophyllene	0.280	2800
trans-Nerolidol	0.198	1980
β-Myrcene	0.136	1360
α-Humulene	0.116	1160
TOTAL TERPENES	1.45	14500

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

Sample Picture Upon Receipt



Scan the QR code to verify results.

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.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full, without the written consent of Felling Analytical Services and Technology (F.A.S.T.), LLC

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



CERTIFICATE OF ANALYSIS (SAMPLE ID: SA35735)

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: OR10550 Lot Number: M00065C13138547764 Production Run: 2037H0628GVA-1	Sample Type: Primary Matrix: Flower Mass: 12g Date Collected: 07/31/2023 Date Received: 07/31/2023
Cultivar (Strain) or Sample Description: Guava			Date Completed: 08/03/2023

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

Analysis Date/Time: 08/02/2023 1544 **Method:** HPLC/DAD **Moisture Content (%):** 12.0
Analyst: PW **Instrument:** Agilent 1100 **Water Activity (aw):** 0.539 @ 24.4°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	0.0393	0.0918	-	-	-
CBCA	ND	ND	0.122	0.285	-	-	-
CBD	ND	ND	0.277	0.648	-	-	-
CBDV	ND	ND	0.0445	0.104	-	-	-
CBDVA	ND	ND	0.119	0.277	-	-	-
CBG	ND	ND	0.180	0.421	-	-	-
CBGA	1.65	16.5	0.255	0.301	-	14.5	14.5
CBL	ND	ND	0.208	0.486	-	-	-
CBN	ND	ND	0.0956	0.223	-	-	-
CBNA	ND	ND	0.103	0.241	-	-	-
Δ9-THC	0.507	5.07	0.115	0.267	-	4.46	4.46
Δ8-THC	ND	ND	0.179	0.417	-	-	-
THCA	29.9	299	0.0621	0.145	-	263	263
THCV	ND	ND	0.149	0.348	-	-	-
THCVA	0.154	1.54	0.0476	0.111	-	1.36	1.36
TOTAL	32.2	322				284	284
TOTAL CBC	-	-				-	-
TOTAL CBD	-	-				-	-
TOTAL CBDV	-	-				-	-
TOTAL CBG	1.45	14.5				12.7	12.7
TOTAL CBN	-	-				-	-
TOTAL THC	26.8	268				236	236
TOTAL THC V	0.134	1.34				1.18	1.18



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 = (CBDV 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

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.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full, without the written consent of Felling Analytical Services and Technology (F.A.S.T.), LLC



CERTIFICATE OF ANALYSIS (SAMPLE ID: SA35735)

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: OR10550 Lot Number: M00065C13138547764 Production Run: 2037H0628GVA-1	Sample Type: Primary Matrix: Flower Mass: 12g Date Collected: 07/31/2023 Date Received: 07/31/2023
--	---	--	---

Cultivar (Strain) or Sample Description: Guava **Date Completed:** 08/03/2023

TERPENOID PROFILE

Analysis Date/Time: 08/02/2023 1947
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	138	0.0138	
δ-3-Carene	ND	-	
β-Caryophyllene	2800	0.280	■
Caryophyllene oxide	276	0.0276	
p-Cymene	<LOQ	-	
Eucalyptol	ND	-	
Geraniol	ND	-	
Guaiol	966	0.0966	■
α-Humulene	1160	0.116	■
Isopulegol	ND	-	
d-Limonene	3310	0.331	■
Linalool	1020	0.102	■
β-Myrcene	1360	0.136	■
cis-Nerolidol	ND	-	
trans-Nerolidol	1980	0.198	■
α-Ocimene	ND	-	
β-Ocimene	ND	-	
α-Pinene	483	0.0483	■
β-Pinene	1040	0.104	■
α-Terpinene	ND	-	
γ-Terpinene	ND	-	
Terpinolene	ND	-	
TOTAL	14500	1.45	



Abbreviations: GC - Gas Chromatography, MS - Mass Spectrometry, RL - Reporting Limit
Abbreviations: ND - Not Detected, LOD - Limit of Detection, LOQ - Limit of Quantitation

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.

Reporting Limit (µg/g): 43.1

"-" Not detected above LOD.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full, without the written consent of Felling Analytical Services and Technology (F.A.S.T.), LLC

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

www.FASTLaboratories.com



CERTIFICATE OF ANALYSIS (SAMPLE ID: SA35735)

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: OR10550 Lot Number: M00065C13138547764 Production Run: 2037H0628GVA-1	Sample Type: Primary Matrix: Flower Mass: 12g Date Collected: 07/31/2023 Date Received: 07/31/2023
Cultivar (Strain) or Sample Description: Guava			Date Completed: 08/03/2023

PESTICIDES PROFILE (SOP: SOP-PEST-001)

Analysis Date/Time: 08/02/2023 1613
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)	-	0.0430	0.344	0.5	Kresoxim-methyl (143390-89-0)	-	0.0430	0.344	0.4
Acephate (30560-19-1)	-	0.0430	0.344	0.4	Malathion (121-75-5)	-	0.0430	0.344	0.2
Acetaminocyl (57960-19-7)	-	0.0430	0.344	2	Metalaxyl (57837-19-1)	-	0.0430	0.344	0.2
Acetamiprid (135410-20-7)	-	0.0430	0.344	0.2	Methiocarb (2032-65-7)	-	0.0430	0.344	0.2
Aldicarb (116-06-3)	-	0.0430	0.344	0.4	Methomyl (16752-77-5)	-	0.0430	0.344	0.4
Azoxystrobin (131860-33-8)	-	0.0430	0.344	0.2	Methyl parathion (298-0-0)	-	0.0430	0.344	0.2
Bifenazate (149877-41-8)	-	0.0430	0.344	0.2	MGK 264 (113-48-4)	-	0.0430	0.344	0.2
Bifenthrin (82657-04-3)	-	0.0430	0.344	0.2	Myclobutanil (88671-89-0)	-	0.0430	0.344	0.2
Boscalid (188425-85-6)	-	0.0430	0.344	0.4	Naled (300-76-5)	-	0.0430	0.344	0.5
Carbaryl (63-25-2)	-	0.0430	0.344	0.2	Oxamyl (23135-22-0)	-	0.0430	0.344	1
Carbofuran (1563-66-2)	-	0.0430	0.344	0.2	Pacllobutrazol (76738-62-0)	-	0.0430	0.344	0.4
Chlorantraniliprole (800008-45-7)	-	0.0430	0.344	0.2	Permethrins (52645-53-1)	-	0.0430	0.344	0.2
Chlorfenapyr (122453-73-0)	-	0.0430	0.344	1	Phosmet (732-11-6)	-	0.0430	0.344	0.2
Chlorpyrifos (2921-88-2)	-	0.0430	0.344	0.2	Piperonyl butoxide (51-03-6)	-	0.0430	0.344	2
Clofentezine (74115-24-5)	-	0.0430	0.344	0.2	Prallethrins (2331-36-9)	-	0.0430	0.344	0.2
Cyfluthrin (68359-37-5)	-	0.0430	0.344	1	Propiconazole (60207-90-1))	-	0.0430	0.344	0.4
Cypermethrin (52315-07-8)	-	0.0430	0.344	1	Propoxur (114-26-1)	-	0.0430	0.344	0.2
Daminozide (1596-84-5)	-	0.0430	0.344	1	Pyrethrins (8003-34-7)	-	0.0430	0.344	1
DDVP (62-73-7)	-	0.0430	0.344	0.1	Pyridaben (96489-71-3)	-	0.0430	0.344	0.2
Diazinon (333-41-5)	-	0.0430	0.344	0.2	Spinosad (168316-95-8)	-	0.0430	0.344	0.2
Dimethoate (60-51-5)	-	0.0430	0.344	0.2	Spiromesifen (283594-90-1)	-	0.0430	0.344	0.2
Ethoprophos (13194-48-4)	-	0.0430	0.344	0.2	Spirotetramat (203313-25-1)	-	0.0430	0.344	0.2
Etofenprox (80844-07-1)	-	0.0430	0.344	0.4	Spiroxamine (118134-30-8)	-	0.0430	0.344	0.4
Etoxazole (153233-91-1)	-	0.0430	0.344	0.2	Tebuconazole (80443-41-0)	-	0.0430	0.344	0.4
Fenoxycarb (72490-01-8)	-	0.0430	0.344	0.2	Thiacloprid (111988-49-9)	-	0.0430	0.344	0.2
(E)-Fenpyroximate (134098-61-6)	-	0.0430	0.344	0.4	Thiamethoxam (153719-23-4)	-	0.0430	0.344	0.2
Fipronil (120068-37-3)	-	0.0430	0.344	0.4	Trifloxystrobin (141517-21-7)	-	0.0430	0.344	0.2
Fonicamid (158062-67-0)	-	0.0430	0.344	1					
Fludioxinil (131341-86-1)	-	0.0430	0.344	0.4					
Hexythiazox (78587-05-0)	-	0.0430	0.344	1					
Imazalil (35554-44-0)	-	0.0430	0.344	0.2					
Imidacloprid (138261-41-3)	-	0.0430	0.344	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.
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.

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		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full, without the written consent of Felling Analytical Services and Technology (F.A.S.T.), LLC

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



CERTIFICATE OF ANALYSIS (SAMPLE ID: SA35735)

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: OR10550 Lot Number: M00065C13138547764 Production Run: 2037H0628GVA-1	Sample Type: Primary Matrix: Flower Mass: 12g Date Collected: 07/31/2023 Date Received: 07/31/2023
Cultivar (Strain) or Sample Description: Guava			Date Completed: 08/03/2023

HEAVY METAL PROFILE (SOP: SOP-ICP-200.6)

Analysis Date/Time: 08/03/2023 0839 (ICP/OES) **Method:** ICP/MS **Deviations from SOP:**
Analysis Date/Time: - (DMA) **Instrument:** Agilent 7500ce None
Analyst: 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)	-	58.8	93.1	200
Cadmium (Cd)	-	58.8	93.1	200
Lead (Pb)	-	58.8	93.1	500
Mercury (Hg)	-	58.8	93.1	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



"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.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full, without the written consent of
 Felling Analytical Services and Technology (F.A.S.T.), LLC

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



CERTIFICATE OF ANALYSIS (SAMPLE ID: SA35735)

Testing Location: Arkansas 232 S. Broadview St. Greenbrier, AR 72058 License: ADA 05_H273	Customer ID: 2161 River Valley Relief Cultivation 5601 Old Greenwood Rd Suite C Fort Smith, AR 72903 License: 00065C	Sample ID: SA35735 Lot Number: M00065C13138547764 Production Run: 2037H0628GVA-1	Sample Type: Primary Matrix: Flower Mass: 12g Date Collected: 07/31/2023 Date Received: 07/31/2023 Date Completed: 08/03/2023
Cultivar (Strain) or Sample Description: Guava			

MICROBIOLOGICAL PROFILE (SOP: SOP-Micro-001)

Analysis Date/Time: 08/02/2023 0802 **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	Present	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.
 A value of "-" for the action level means that analyte is not currently regulated by the regulations referenced above.

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.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full, without the written consent of Felling Analytical Services and Technology (F.A.S.T.), LLC

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

