







### **SUMMARY OF ANALYSIS (SAMPLE ID: SA35148)**

Testing Location:Customer ID: 2161Order ID: OR10438Sample Type: PrimaryArkansasRiver Valley Relief CultivationLot Number:Matrix: Flower

232 S. Broadview St. 5601 Old Greenwood Rd Suite C M00065C13135973385 **Mass:** 20g
Greenbrier, AR 72058 Fort Smith, AR 72903 **Production Run: Date Collected:** 05/08/2023

License: ADH 113 License: 00065C 3031H20230328GVA-1 **Date Received:** 05/08/2023 **Cultivar (Strain) or Sample Description:** Guava **Date Completed:** 05/11/2023

\*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 (%)
 Water Activity (aw)
 PASS/FAIL

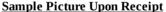
 12.3
 0.465 @ 24.4°C
 PASS

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.

(%)	mg/g
35.1	351
1.92	19.2
0.532	5.32
-	-
31.3	313
37.7	377
(%)	<u>µg/g</u>
0.410	4100
0.341	3410
0.000	
0.236	2360
0.236 0.182	2360 1820
	35.1 1.92 0.532 - 31.3 37.7 (%) 0.410 0.341

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







Scan the QR code to verify results.

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Testing Location:Customer ID: 2161ArkansasRiver Valley Relief Cultivation232 S. Broadview St.5601 Old Greenwood Rd Suite C

Cultivar (Strain) or Sample Description: Guava

Greenbrier, AR 72058 Fort Smith, AR 72903 License: ADH 113 License: 00065C Order ID: OR10438 Lot Number:

M00065C13135973385

**Production Run:** 3031H20230328GVA-1

Sample Type: Primary

**Matrix:** Flower **Mass:** 20g

**Date Collected:** 05/08/2023 **Date Received:** 05/08/2023

Date Completed: 05/11/2023

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

Analysis Date/Time: 05/10/2023 1459 Method: HPLC/DAD Moisture Content (%): 12.3

Analyst: PW Instrument: Agilent 1100

gilent 1100 **Water Activity (aw):** 0.465 @ 24.39°C



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

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) +  $\Delta$ 9-THC Total THCV = (THCVA x 0.867) + THCV

Percentage results are reported by mass.

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

Cannabinoid	Result (%)	Result (mg/g)	LOD (mg/g)	LOQ (mg/g)	Result (mg/ mL)	Per Serving (mg)	Per Unit (mg)	
CBC	ND	ND	0.199	0.463	-	-	-	
CBCA	ND	ND	0.617	1.44	-	-	-	
CBD	ND	ND	1.40	3.27	-	-	-	
CBDA	ND	ND	0.516	1.20	-	-	-	
CBDV	ND	ND	0.225	0.524	-	-	-	
CBDVA	ND	ND	0.599	1.40	-	-	-	
CBG	ND	ND	0.910	2.12	-	-	-	
CBGA	1.92	19.2	0.652	1.52	-	19.2	19.2	
CBL	ND	ND	1.05	2.45	-	-	-	
CBN	ND	ND	0.483	1.13	-	-	-	
CBNA	ND	ND	0.521	1.21	-	-	-	
Δ9-ΤΗС	0.532	5.32	0.578	1.35	-	5.32	5.32	
Δ8-ΤΗС	ND	ND	0.903	2.11	-	-	-	
THCA	35.1	351	0.314	0.734	-	351	351	
THCV	ND	ND	0.753	1.75	-	-	-	
THCVA	0.165	1.65	0.240	0.559	-	1.65	1.65	
TOTAL	37.7	377		.,		377	377	
TOTAL CBC	-	-		,		-	-	
TOTAL CBD	-	-			-	-	-	
TOTAL CBDV	-	-			-	-	-	
TOTAL CBG	1.69	16.9			-	16.9	16.9	
TOTAL CBN	-	-			-	-	-	
TOTAL THC	31.3	313			-	313	313	
TOTAL THCV	0.143	1.43			-	1.43	1.43	
* CBCA, CBDVA, CBL, CBNA, and THCVA are in process of being added to our accreditation scope.								

<sup>\*</sup> 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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<sup>&</sup>quot;-" Not detected above LOD.



Cultivar (Strain) or Sample Description: Guava

Analysis Date/Time:05/11/2023 0820







### **CERTIFICATE OF ANALYSIS (SAMPLE ID: SA35148)**

**Testing Location:** Arkansas

Arkansas 232 S. Broadview St. Greenbrier, AR 72058 License: ADH 113

**Analyst: KF** 

α-Ocimene

**β-Ocimene** 

α-Pinene

**B-Pinene** 

 $\alpha$ -Terpinene  $\gamma$ -Terpinene Terpinolene

Customer ID: 2161 River Valley Relief Cultivation 5601 Old Greenwood Rd Suite C Fort Smith, AR 72903 License: 00065C Order ID: OR10438 Lot Number: M00065C13135973385 Production Run: 3031H20230328GVA-1

Sample Type: Primary
Matrix: Flower
Mass: 20g
Date Collected: 05/08/2023

Date Received: 05/08/2023

Date Completed: 05/11/2023

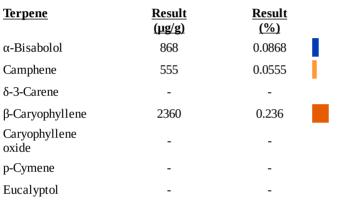
Method: GC/MS

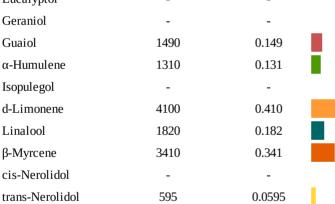
TERPENOID PROFILE

Instrument: Agilent 7890/5975

**Deviations from SOP:** 

None





356

830

1080

540

0.0356

0.0830

0.108

0.0540



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

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"-" Not detected above RL

TOTAL 19300 1.93 Reporting Limit (μg/g): 43.6





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**Testing Location:** 

Arkansas 232 S. Broadview St.

Greenbrier, AR 72058

License: ADH 113

**Analyst: KF** 

Customer ID: 2161

River Valley Relief Cultivation 5601 Old Greenwood Rd Suite C

Fort Smith, AR 72903

License: 00065C

Lot Number: M00065C13135973385

**Production Run:** 

3031H20230328GVA-1

Order ID: OR10438

Sample Type: Primary

Matrix: Flower

Mass: 20g

**Date Collected:** 05/08/2023 **Date Received:** 05/08/2023

**Date Completed:** 05/11/2023

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

Analysis Date/Time: 05/10/2023 1659

Cultivar (Strain) or Sample Description: Guava

0.0436

0.0436

0.0436

0.0436

0.0436

0.0436

0.349

0.349

0.349

0.349

0.349

0.349

0.4

1

0.4

1

0.2

0.4

Method: LC/MS/MS

**Instrument:** Shimadzu LC-8050

**Deviations from SOP:** 

None

<u>Pesticide</u>	<u>Result</u> (μg/g)	<u>LOD</u> (μg/g)	LOQ (µg/g)	<u>Action</u> <u>Level</u> (μg/g)	<u>Pesticide</u>	<u>Result</u> (μg/g)	<u>LOD</u> (μg/g)	LOQ (µg/g)	Action Level (µg/g)
Abamectin (71751-41-2)	-	0.0436	0.349	0.5	Kresoxim-methyl (143390-89-0)	_	0.0436	0.349	0.4
Acephate (30560-19-1)	-	0.0436	0.349	0.4	,		0.0426	0.240	0.2
Acequinocyl (57960-19-7)	-	0.0436	0.349	2	Malathion (121-75-5)	-	0.0436	0.349	0.2
Acetamiprid (135410-20-7)	-	0.0436	0.349	0.2	Metalaxyl (57837-19-1) Methiocarb (2032-65-7)	-	0.0436 0.0436	0.349 0.349	0.2 0.2
Aldicarb (116-06-3)	-	0.0436	0.349	0.4	Methomyl (16752-77-5)	-	0.0436	0.349	0.4
Azoxystrobin (131860-33-8)	-	0.0436	0.349	0.2	Methyl parathion (298-0-0)	-	0.0436	0.349	0.2
Bifenazate (149877-41-8)	-	0.0436	0.349	0.2	MGK 264 (113-48-4)	-	0.0436	0.349	0.2
Bifenthrin (82657-04-3)	-	0.0436	0.349	0.2	Myclobutanil		0.0436	0.349	0.2
Boscalid (188425-85-6)	-	0.0436	0.349	0.4	(88671-89-0)		0.0430	0.545	
Carbaryl (63-25-2)	-	0.0436	0.349	0.2	Naled (300-76-5)	-	0.0436	0.349	0.5
Carbofuran (1563-66-2)	-	0.0436	0.349	0.2	Oxamyl (23135-22-0)	-	0.0436	0.349	1
Chlorantraniliprole (800008-45-7)	-	0.0436	0.349	0.2	Paclobutrazol (76738-62-0)	-	0.0436	0.349	0.4
Chlorfenapyr		0.0426	0.240		Permethrins (52645-53-1)	-	0.0436	0.349	0.2
(122453-73-0)	-	0.0436	0.349	1	Phosmet (732-11-6)	-	0.0436	0.349	0.2
Chlorpyrifos (2921-88-2)	-	0.0436	0.349	0.2	Piperonyl butoxide	2	0.0436	0.349	2
Clofentezine (74115-24-5)	-	0.0436	0.349	0.2	(51-03-6)				
Cyfluthrin (68359-37-5)	-	0.0436	0.349	1	Prallethrins (2331-36-9)	-	0.0436	0.349	0.2
Cypermethrin (52315-07-8)	-	0.0436	0.349	1	Propiconazole (60207-90-1))	-	0.0436	0.349	0.4
Daminozide (1596-84-5)	-	0.0436	0.349	1	Propoxur (114-26-1)	-	0.0436	0.349	0.2
DDVP (62-73-7)	-	0.0436	0.349	0.1	Pyrethrins (8003-34-7)	-	0.0436	0.349	1
Diazinon (333-41-5)	_	0.0436	0.349	0.2	Pyridaben (96489-71-3)	-	0.0436	0.349	0.2
Dimethoate (60-51-5)	-	0.0436	0.349	0.2	Spinosad (168316-95-8)	-	0.0436	0.349	0.2
Ethoprophos (13194-48-4)	-	0.0436	0.349	0.2	Spiromesifen (283594-90-1)		0.0436	0.349	0.2
Etofenprox (80844-07-1)	-	0.0436	0.349	0.4	(263594-90-1) Spirotetramat				
Etoxazole (153233-91-1)	-	0.0436	0.349	0.2	(203313-25-1)	-	0.0436	0.349	0.2
Fenoxycarb (72490-01-8)	-	0.0436	0.349	0.2	Spiroxamine		0.0426	0.240	0.4
(E)-Fenpyroximate (134098-61-6)	-	0.0436	0.349	0.4	(118134-30-8) Tebuconazole		0.0436	0.349	0.4



Color Kev

"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

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

0.0436

0.0436

0.0436

0.0436

0.349

0.349

0.349

0.349

0.4

0.2

0.2

0.2

<u>Pesticide</u>	Synonym(s)	<u>Pesticide</u>	Synonym(s)	<u>Pesticide</u>	Synonym(s)
Cyfluthrin	Baythroid	Myclobutanil	Systhane	Propiconazole	Tilt
DDVP	Dichlorvos	Naled	Dibrom	Propoxur	Baygon
Ethoprophos	Prophos	Phosmet	Imidan		

(80443-41-0)

Thiacloprid (111988-49-9)

Thiamethoxam

(153719-23-4)

Trifloxystrobin

(141517-21-7)



Fipronil (120068-37-3)

Flonicamid (158062-67-0)

Fludioxinil (131341-86-1)

Hexythiazox (78587-05-0)

Imazalil (35554-44-0)

Imidacloprid

(138261-41-3)











Testing Location:Customer ID: 2161Order IDArkansasRiver Valley Relief CultivationLot Number 10

River Valley Relief Cultivation 5601 Old Greenwood Rd Suite C

Fort Smith, AR 72903

License: ADH 113 License: 00065C

Cultivar (Strain) or Sample Description: Guava

**Order ID:** OR10438 **Sample Type:** Primary

**Lot Number:** Matrix: Flower M00065C13135973385 Mass: 20g

 Production Run:
 Date Collected: 05/08/2023

 3031H20230328GVA-1
 Date Received: 05/08/2023

**Date Completed:** 05/11/2023

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

Analysis Date/Time: 05/10/2023 1414 (ICP/OES) Method: ICP/OES Deviations from SOP:

Analysis Date/Time: - (DMA) Instrument: Agilent 720-ES None

**Analyst:** KF

232 S. Broadview St.

Greenbrier, AR 72058

<u>Heavy Metal</u>	<u>Result</u> (μg/kg)	<u>LOD</u> (µg/kg)	LOQ (µg/kg)	<u>Action Level</u> (μg/kg)
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

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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Testing Location:Customer ID: 2161Sample ID: SA35148Sample Type: PrimaryArkansasRiver Valley Relief CultivationLot Number:Matrix: Flower232 S. Broadview St.5601 Old Greenwood Rd Suite CM00065C13135973385Mass: 20g

 Greenbrier, AR 72058
 Fort Smith, AR 72903
 Production Run:
 Date Collected: 05/08/2023

 License: ADA 05\_H273
 License: 00065C
 3031H20230328GVA-1
 Date Received: 05/08/2023

**Cultivar (Strain) or Sample Description:** Guava **Date Completed:** 05/11/2023

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

**Analysis Date/Time:** 20230510 1113 **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	Present	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)

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