

SUMMARY OF ANALYSIS (SAMPLE ID: SA35192)

Testing Location:	Customer ID: 2161	Order ID: OR10451	Sample Type: Primary
Arkansas	River Valley Relief Cultivation	Lot Number:	Matrix: Flower
232 S. Broadview St.	5601 Old Greenwood Rd Suite C	M00065C13133031210	Mass: 23g
Greenbrier, AR 72058	Fort Smith, AR 72903	Production Run:	Date Collected: 05/15/2023
License: ADH 113	License: 00065C	4032H20230405GVA-2	Date Received: 05/15/2023
Cultivar (Strain) or Sample Description: Guava			Date Completed: 05/18/2023

*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 (%)

12.1

Water Activity (aw)

0.524 @ 24.7°C

PASS/FAIL

PASS

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

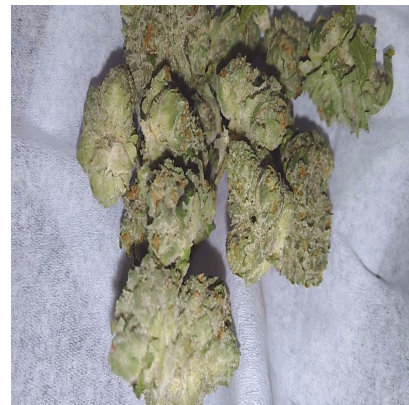
Moisture content levels less than 15% are recommended but the sample does not fail. Water activity levels must be less than 0.65aw.

Cannabinoids (Top 3)	(%)	mg/g
THCA	33.1	331
CBGA	1.94	19.4
Δ9-THC	0.203	2.03
TOTAL CBD	-	-
TOTAL THC	29.3	293
TOTAL CANNABINOIDS	35.4	354

Terpenes (Top 5)	(%)	µg/g
d-Limonene	0.441	4410
β-Myrcene	0.284	2840
β-Ocimene	0.203	2030
Linalool	0.188	1880
β-Caryophyllene	0.126	1260
TOTAL TERPENES	1.59	15900

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

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CERTIFICATE OF ANALYSIS (SAMPLE ID: SA35192)

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

Analysis Date/Time: 05/16/2023 1725

Method: HPLC/DAD

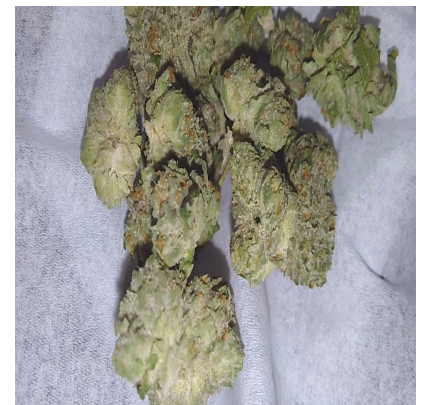
Moisture Content (%): 12.1

Analyst: PW

Instrument: Agilent 1100

Water Activity (aw): 0.524 @ 24.7°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	0.216	0.505	-	-	-
CBCA	ND	ND	0.672	1.57	-	-	-
CBD	ND	ND	1.53	3.56	-	-	-
CBDV	ND	ND	0.562	1.31	-	-	-
CBDVA	ND	ND	0.245	0.571	-	-	-
CBDVA	ND	ND	0.653	1.52	-	-	-
CBG	ND	ND	0.991	2.31	-	-	-
CBGA	1.94	19.4	0.710	1.66	-	19.4	19.4
CBL	ND	ND	1.14	2.67	-	-	-
CBN	ND	ND	0.526	1.23	-	-	-
CBNA	ND	ND	0.567	1.32	-	-	-
Δ9-THC	0.203	2.03	0.630	1.47	-	2.03	2.03
Δ8-THC	ND	ND	0.983	2.29	-	-	-
THCA	33.1	331	0.342	0.799	-	331	331
THCV	ND	ND	0.820	1.91	-	-	-
THCVA	0.155	1.55	0.262	0.609	-	1.55	1.55
TOTAL	35.4	354			-	354	354
TOTAL CBC	-	-			-	-	-
TOTAL CBD	-	-			-	-	-
TOTAL CBDV	-	-			-	-	-
TOTAL CBG	1.70	17.0			-	17.0	17.0
TOTAL CBN	-	-			-	-	-
TOTAL THC	29.3	293			-	293	293
TOTAL THCVA	0.135	1.35			-	1.35	1.35



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 THCVA = (THCVA x 0.867) + THCVA

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: 05/17/2023 1909

Analyst: KF

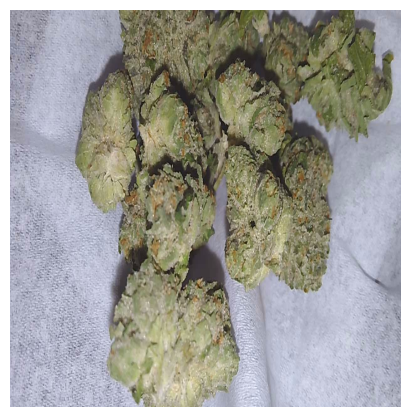
Method: GC/MS

Instrument: Agilent 7890/5975

Deviations from SOP:

None

Terpene	Result (µg/g)	Result (%)	
α-Bisabolol	20.3	0.00203	
Camphene	180	0.0180	
δ-3-Carene	6.20	0.000620	
β-Caryophyllene	1260	0.126	
Caryophyllene oxide	-	-	
p-Cymene	9.21	0.000921	
Eucalyptol	-	-	
Geraniol	-	-	
Guaiol	107	0.0107	
α-Humulene	438	0.0438	
Isopulegol	-	-	
d-Limonene	4410	0.441	
Linalool	1880	0.188	
β-Myrcene	2840	0.284	
cis-Nerolidol	870	0.0870	
trans-Nerolidol	227	0.0227	
α-Ocimene	-	-	
β-Ocimene	2030	0.203	
α-Pinene	616	0.0616	
β-Pinene	986	0.0986	
α-Terpinene	-	-	
γ-Terpinene	-	-	
Terpinolene	59.1	0.00591	
TOTAL	15900	1.59	



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

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"-" Not detected above RL.

Reporting Limit (µg/g): 168

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PESTICIDES PROFILE (SOP: SOP-PEST-001)

Analysis Date/Time: 05/17/2023 1538

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)	-	0.0474	0.379	0.5	Kresoxim-methyl (143390-89-0)	-	0.0474	0.379	0.4
Acephate (30560-19-1)	-	0.0474	0.379	0.4	Malathion (121-75-5)	-	0.0474	0.379	0.2
Acetaminophen (57960-19-7)	-	0.0474	0.379	2	Metalaxyl (57837-19-1)	-	0.0474	0.379	0.2
Acetamiprid (135410-20-7)	-	0.0474	0.379	0.2	Methiocarb (2032-65-7)	-	0.0474	0.379	0.2
Aldicarb (116-06-3)	-	0.0474	0.379	0.4	Methomyl (16752-77-5)	-	0.0474	0.379	0.4
Azoxystrobin (131860-33-8)	-	0.0474	0.379	0.2	Methyl parathion (298-0-0)	-	0.0474	0.379	0.2
Bifenazate (149877-41-8)	-	0.0474	0.379	0.2	MGK 264 (113-48-4)	-	0.0474	0.379	0.2
Bifenthrin (82657-04-3)	-	0.0474	0.379	0.2	Myclobutanil (88671-89-0)	-	0.0474	0.379	0.2
Boscalid (188425-85-6)	-	0.0474	0.379	0.4	Naled (300-76-5)	-	0.0474	0.379	0.5
Carbaryl (63-25-2)	-	0.0474	0.379	0.2	Oxamyl (23135-22-0)	-	0.0474	0.379	1
Carbofuran (1563-66-2)	-	0.0474	0.379	0.2	Paclobutrazol (76738-62-0)	-	0.0474	0.379	0.4
Chlorantraniliprole (800008-45-7)	-	0.0474	0.379	0.2	Permethrins (52645-53-1)	-	0.0474	0.379	0.2
Chlorfenapyr (122453-73-0)	-	0.0474	0.379	1	Phosmet (732-11-6)	-	0.0474	0.379	0.2
Chlorpyrifos (2921-88-2)	-	0.0474	0.379	0.2	Piperonyl butoxide (51-03-6)	-	0.0474	0.379	2
Clofentezine (74115-24-5)	-	0.0474	0.379	0.2	Prallethrin (2331-36-9)	-	0.0474	0.379	0.2
Cyfluthrin (68359-37-5)	-	0.0474	0.379	1	Propiconazole (60207-90-1))	-	0.0474	0.379	0.4
Cypermethrin (52315-07-8)	-	0.0474	0.379	1	Propoxur (114-26-1)	-	0.0474	0.379	0.2
Daminozide (1596-84-5)	-	0.0474	0.379	1	Pyrethrins (8003-34-7)	-	0.0474	0.379	1
DDVP (62-73-7)	-	0.0474	0.379	0.1	Pyridaben (96489-71-3)	-	0.0474	0.379	0.2
Diazinon (333-41-5)	-	0.0474	0.379	0.2	Spinosad (168316-95-8)	-	0.0474	0.379	0.2
Dimethoate (60-51-5)	-	0.0474	0.379	0.2	Spiromesifen (283594-90-1)	-	0.0474	0.379	0.2
Ethoprophos (13194-48-4)	-	0.0474	0.379	0.2	Spirotetramat (203313-25-1)	-	0.0474	0.379	0.2
Etofenprox (80844-07-1)	-	0.0474	0.379	0.4	Spiroxamine (118134-30-8)	-	0.0474	0.379	0.4
Etazoxole (153233-91-1)	-	0.0474	0.379	0.2	Tebuconazole (80443-41-0)	-	0.0474	0.379	0.4
Fenoxycarb (72490-01-8)	-	0.0474	0.379	0.2	Thiacloprid (111988-49-9)	-	0.0474	0.379	0.2
(E)-Fenpyroximate (134098-61-6)	-	0.0474	0.379	0.4	Thiamethoxam (153719-23-4)	-	0.0474	0.379	0.2
Fipronil (120068-37-3)	-	0.0474	0.379	0.4	Trifloxystrobin (141517-21-7)	-	0.0474	0.379	0.2
Flonicamid (158062-67-0)	-	0.0474	0.379	1					
Fludioxinil (131341-86-1)	-	0.0474	0.379	0.4					
Hexythiazox (78587-05-0)	-	0.0474	0.379	1					
Imazalil (35554-44-0)	-	0.0474	0.379	0.2					
Imidacloprid (138261-41-3)	-	0.0474	0.379	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
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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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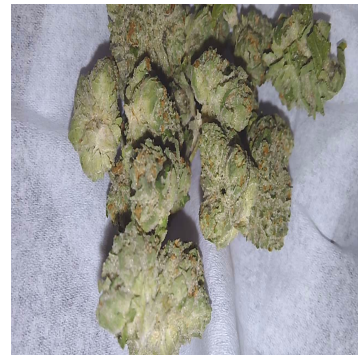
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HEAVY METAL PROFILE (SOP: SOP-ICP-200.6)

Analysis Date/Time: 05/15/2023 1706 (ICP/OES)	Method: ICP/MS	Deviations from SOP:
Analysis Date/Time: - (DMA)	Instrument: Agilent 7500ce	None
Analyst: KF		

Heavy Metal	Result (µg/kg)	LOD (µg/kg)	LOQ (µg/kg)	Action Level (µg/kg)
Arsenic (As)	-	58.1	92.0	200
Cadmium (Cd)	-	58.1	92.0	200
Lead (Pb)	-	58.1	92.0	500
Mercury (Hg)	-	58.1	92.0	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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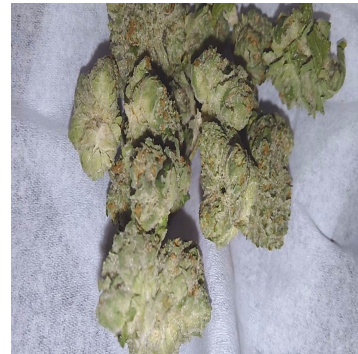
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MICROBIOLOGICAL PROFILE (SOP: SOP-Micro-001)

Analysis Date/Time: 05/16/2023 1213
Analyst: PW
Method: Hardy Diagnostics CompactDry
Instrument: Thermo Incubator
Deviations from SOP: 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	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)

1

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