

SUMMARY OF ANALYSIS (SAMPLE ID: SA36133)

Testing Location:	Customer ID: 2161	Order ID: OR10629	Sample Type: Primary
Arkansas	River Valley Relief Cultivation	Lot Number:	Matrix: Flower
232 S. Broadview St.	5601 Old Greenwood Rd Suite C	M00065C13138825620	Mass: 9g
Greenbrier, AR 72058	Fort Smith, AR 72903	Production Run:	Date Collected: 10/02/2023
License: ADH 113	License: 00065C	7042H20230906PPC-1	Date Received: 10/03/2023
Cultivar (Strain) or Sample Description: Papaya Poundcake			Date Completed: 10/04/2023

*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 (%)

10.4

Water Activity (aw)

0.471 @ 24.2°C

PASS/FAIL

PASS

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

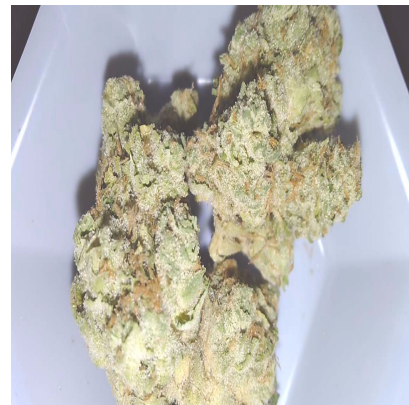
Moisture content levels less than 15% are recommended but the sample does not fail. Water activity levels must be less than 0.65aw.

Cannabinoids (Top 3)	(%)	mg/g
THCA	29.5	295
CBGA	0.593	5.93
Δ9-THC	0.392	3.92
TOTAL CBD	-	-
TOTAL THC	26.2	262
TOTAL CANNABINOIDS	30.7	307

Terpenes (Top 5)	(%)	µg/g
d-Limonene	0.298	2980
β-Caryophyllene	0.221	2210
Linalool	0.144	1440
β-Myrcene	0.115	1150
Guaiol	0.0673	673
TOTAL TERPENES	1.11	11100

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



CERTIFICATE OF ANALYSIS (SAMPLE ID: SA36133)

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

Analysis Date/Time: 10/03/2023 1730

Method: HPLC/DAD

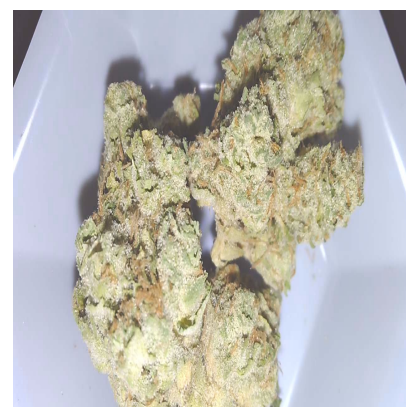
Moisture Content (%): 10.4

Analyst: PW

Instrument: Agilent 1100

Water Activity (aw): 0.471 @ 24.2°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	0.0439	0.102	-	-	-
CBCA	ND	ND	0.136	0.318	-	-	-
CBD	ND	ND	0.309	0.722	-	-	-
CBDV	ND	ND	0.114	0.266	-	-	-
CBDVA	ND	ND	0.0496	0.116	-	-	-
CBG	ND	ND	0.132	0.309	-	-	-
CBGA	0.228	2.28	0.201	0.469	-	2.04	2.04
CBL	0.593	5.93	0.285	0.336	-	5.31	5.31
CBN	ND	ND	0.232	0.542	-	-	-
CBNA	ND	ND	0.107	0.249	-	-	-
CBNA	ND	ND	0.115	0.268	-	-	-
Δ9-THC	0.392	3.92	0.128	0.298	-	3.52	3.52
Δ8-THC	ND	ND	0.199	0.465	-	-	-
THCA	ND	ND	0.0693	0.162	-	264	264
THCV	29.5	295	0.166	0.387	-	-	-
THCVA	ND	ND	0.166	0.387	-	-	-
THCVA	ND	ND	0.0531	0.124	-	-	-
TOTAL	30.7	307			-	275	275
TOTAL CBC	-	-			-	-	-
TOTAL CBD	-	-			-	-	-
TOTAL CBDV	-	-			-	-	-
TOTAL CBG	0.748	7.48			-	6.71	6.71
TOTAL CBN	-	-			-	-	-
TOTAL THC	26.2	262			-	235	235
TOTAL THCVA	-	-			-	-	-



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

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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Percentage results are reported by mass.

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

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Kyle W. Felling
Laboratory Director

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TERPENOID PROFILE

Analysis Date/Time: 10/04/2023 0458

Method: GC/MS

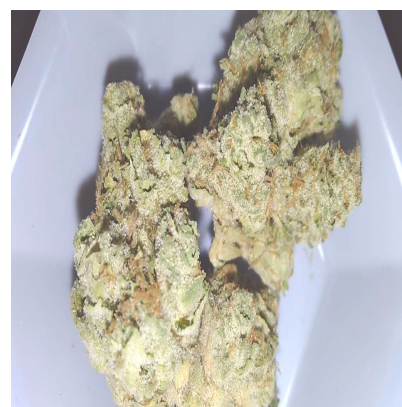
Deviations from SOP:

Analyst: KF

Instrument: Agilent 7890/5975

None

<u>Terpene</u>	<u>Result</u> (µg/g)	<u>Result</u> (%)	
α-Bisabolol	192	0.0192	
Camphene	96.2	0.00962	
δ-3-Carene	ND	-	
β-Caryophyllene	2210	0.221	
Caryophyllene oxide	ND	-	
p-Cymene	<LOQ	-	
Eucalyptol	ND	-	
Geraniol	ND	-	
Guaiol	673	0.0673	
α-Humulene	673	0.0673	
Isopulegol	ND	-	
d-Limonene	2980	0.298	
Linalool	1440	0.144	
β-Myrcene	1150	0.115	
cis-Nerolidol	385	0.0385	
trans-Nerolidol	257	0.0257	
α-Ocimene	ND	-	
β-Ocimene	ND	-	
α-Pinene	353	0.0353	
β-Pinene	641	0.0641	
α-Terpinene	ND	-	
γ-Terpinene	ND	-	
Terpinolene	<LOQ	-	
TOTAL	11100	1.11	



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): 80.2

"-" Not detected above LOD.

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PESTICIDES PROFILE (SOP: SOP-PEST-001)

Analysis Date/Time: 10/03/2023 1813

Analyst: KF

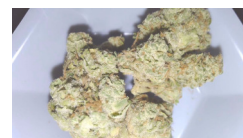
Method: LC/MS/MS

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)	-	0.0479	0.384	0.5	Kresoxim-methyl (143390-89-0)	-	0.0479	0.384	0.4
Acephate (30560-19-1)	-	0.0479	0.384	0.4	Malathion (121-75-5)	-	0.0479	0.384	0.2
Acetaminophen (57960-19-7)	-	0.0479	0.384	2	Metalaxyl (57837-19-1)	-	0.0479	0.384	0.2
Acetamiprid (135410-20-7)	-	0.0479	0.384	0.2	Methiocarb (2032-65-7)	-	0.0479	0.384	0.2
Aldicarb (116-06-3)	-	0.0479	0.384	0.4	Methomyl (16752-77-5)	-	0.0479	0.384	0.4
Azoxystrobin (131860-33-8)	-	0.0479	0.384	0.2	Methyl parathion (298-0-0)	-	0.0479	0.384	0.2
Bifenazate (149877-41-8)	-	0.0479	0.384	0.2	MGK 264 (113-48-4)	-	0.0479	0.384	0.2
Bifenthrin (82657-04-3)	-	0.0479	0.384	0.2	Myclobutanil (88671-89-0)	-	0.0479	0.384	0.2
Boscalid (188425-85-6)	-	0.0479	0.384	0.4	Naled (300-76-5)	-	0.0479	0.384	0.5
Carbaryl (63-25-2)	-	0.0479	0.384	0.2	Oxamyl (23135-22-0)	-	0.0479	0.384	1
Carbofuran (1563-66-2)	-	0.0479	0.384	0.2	Paclobutrazol (76738-62-0)	-	0.0479	0.384	0.4
Chlorantraniliprole (800008-45-7)	-	0.0479	0.384	0.2	Permethrins (52645-53-1)	-	0.0479	0.384	0.2
Chlorfenapyr (122453-73-0)	-	0.0479	0.384	1	Phosmet (732-11-6)	-	0.0479	0.384	0.2
Chlorpyrifos (2921-88-2)	-	0.0479	0.384	0.2	Piperonyl butoxide (51-03-6)	-	0.0479	0.384	2
Clofentezine (74115-24-5)	-	0.0479	0.384	0.2	Prallethrin (2331-36-9)	-	0.0479	0.384	0.2
Cyfluthrin (68359-37-5)	-	0.0479	0.384	1	Propiconazole (60207-90-1)	-	0.0479	0.384	0.4
Cypermethrin (52315-07-8)	-	0.0479	0.384	1	Propoxur (114-26-1)	-	0.0479	0.384	0.2
Daminozide (1596-84-5)	-	0.0479	0.384	1	Pyrethrins (8003-34-7)	-	0.0479	0.384	1
DDVP (62-73-7)	-	0.0479	0.384	0.1	Pyridaben (96489-71-3)	-	0.0479	0.384	0.2
Diazinon (333-41-5)	-	0.0479	0.384	0.2	Spinosad (168316-95-8)	-	0.0479	0.384	0.2
Dimethoate (60-51-5)	-	0.0479	0.384	0.2	Spiromesifen (283594-90-1)	-	0.0479	0.384	0.2
Ethoprophos (13194-48-4)	-	0.0479	0.384	0.2	Spirotetramat (203313-25-1)	-	0.0479	0.384	0.2
Etofenprox (80844-07-1)	-	0.0479	0.384	0.4	Spiroxamine (118134-30-8)	-	0.0479	0.384	0.4
Etiozazole (153233-91-1)	-	0.0479	0.384	0.2	Tebuconazole (80443-41-0)	-	0.0479	0.384	0.4
Fenoxycarb (72490-01-8)	-	0.0479	0.384	0.2	Thiacloprid (111988-49-9)	-	0.0479	0.384	0.2
(E)-Fenpyroximate (134098-61-6)	-	0.0479	0.384	0.4	Thiamethoxam (153719-23-4)	-	0.0479	0.384	0.2
Fipronil (120068-37-3)	-	0.0479	0.384	0.4	Trifloxystrobin (141517-21-7)	-	0.0479	0.384	0.2
Flonicamid (158062-67-0)	-	0.0479	0.384	1					
Fludioxinil (131341-86-1)	-	0.0479	0.384	0.4					
Hexythiazox (78587-05-0)	-	0.0479	0.384	1					
Imazalil (35554-44-0)	-	0.0479	0.384	0.2					
Imidacloprid (138261-41-3)	-	0.0479	0.384	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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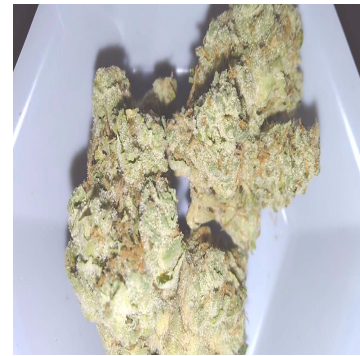
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HEAVY METAL PROFILE (SOP: SOP-ICP-200.6)

Analysis Date/Time: 10/03/2023 1935 (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)	-	59.4	94.0	200
Cadmium (Cd)	-	59.4	94.0	200
Lead (Pb)	-	59.4	94.0	500
Mercury (Hg)	-	59.4	94.0	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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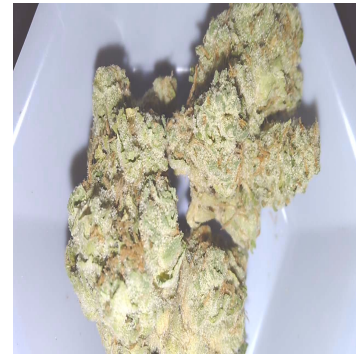
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MICROBIOLOGICAL PROFILE (SOP: SOP-Micro-001)

Analysis Date/Time: 10/04/2023 0838 **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

RESULT > AL

Reporting Limit (CFU/g)

1

Action levels for microbiology are referenced from the State of Arkansas MMJ testing guidelines.
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