

**SUMMARY OF ANALYSIS (SAMPLE ID: SA31839)**

<b>Testing Location:</b>	<b>Customer ID:</b> 2161	<b>Order ID:</b> OR9903	<b>Sample Type:</b> Primary
Arkansas	River Valley Relief Cultivation	<b>Lot Number:</b>	<b>Matrix:</b> Flower
232 S. Broadview St.	5601 Old Greenwood Rd Suite C	M00065C13134110761	<b>Mass:</b> 23g
Greenbrier, AR 72058	Fort Smith, AR 72903	<b>Batch Number:</b>	<b>Date Collected:</b> 06/29/2022
License: ADH 113	License: 00065C	5005	<b>Date Received:</b> 06/30/2022
<b>Cultivar (Strain) or Sample Description:</b> Banjo			<b>Date Completed:</b> 07/04/2022

\*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)**

0.479 @ 25.0°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.

<b>Cannabinoids (Top 3)</b>	<b>(%)</b>	<b>mg/g</b>
THCA	17.1	171
CBGA	1.39	13.9
Δ9-THC	0.993	9.93
TOTAL CBD	-	-
TOTAL THC	16.0	160
TOTAL CANNABINOIDS	20.6	206

<b>Terpenes (Top 5)</b>	<b>(%)</b>	<b>µg/g</b>
γ-Terpinene	0.504	5040
β-Pinene	0.296	2960
Geraniol	0.283	2830
d-Limonene	0.283	2830
α-Ocimene	0.235	2350
TOTAL TERPENES	2.44	24400

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

**Sample Picture Upon Receipt**



Scan the QR code to verify results.

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**Mandatory**

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

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**CERTIFICATE OF ANALYSIS (SAMPLE ID: SA31839)**

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

**Analysis Date/Time:** 07/01/2022 1943

**Method:** HPLC/DAD

**Moisture Content (%):** 12.1

**Analyst:** PW

**Instrument:** Agilent 1100

**Water Activity (aw):** 0.4787 @ 25.03°C

<u>Cannabinoid</u>	<u>Result</u> (%)	<u>UM</u> (+/-%)	<u>Result</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	-	-	-	0.444	-	-	-
CBCA	DET	-	DET	0.444	-	-	-
CBD	-	-	-	0.444	-	-	-
CBDV	DET	-	DET	0.444	-	-	-
CBDVA	0.105	0.00949	1.05	0.444	-	1.05	1.05
CBG	0.135	0.0176	1.35	0.444	-	1.35	1.35
CBGA	1.39	0.153	13.9	0.444	-	13.9	13.9
CBL	DET	-	DET	0.444	-	-	-
CBN	DET	-	DET	0.444	-	-	-
CBNA	-	-	-	0.444	-	-	-
Δ9-THC	0.993	0.169	9.93	0.444	-	9.93	9.93
Δ8-THC	DET	-	DET	0.444	-	-	-
THCA	17.1	1.71	171	0.444	-	171	171
THCV	0.109	0.00872	1.09	0.444	-	1.09	1.09
THCVA	0.748	0.0374	7.48	0.444	-	7.48	7.48
<b>TOTAL</b>	<b>20.6</b>	<b>2.11</b>	<b>206</b>		-	<b>206</b>	<b>206</b>
<b>TOTAL CBC</b>	-	-	-		-	-	-
<b>TOTAL CBD</b>	-	-	-		-	-	-
<b>TOTAL CBDV</b>	0.0915	0.00823	0.915		-	0.915	0.915
<b>TOTAL CBG</b>	1.35	0.152	13.5		-	13.5	13.5
<b>TOTAL CBN</b>	-	-	-		-	-	-
<b>TOTAL THC</b>	16.0	1.67	160		-	160	160
<b>TOTAL THCV</b>	0.757	0.0411	7.57		-	7.57	7.57



**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 THCV = (THCVA x 0.867) + THCV

Percentage results are reported by mass.

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

\* 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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Kyle W. Felling, Ph.D.  
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**TERPENOID PROFILE**

**Analysis Date/Time:** 07/02/2022 0217

**Analyst:** KF

**Method:** GC/MS

**Instrument:** Agilent 7890/5975

**Deviations from SOP:**

None

<b>Terpene</b>	<b>Result (µg/g)</b>	<b>Result (%)</b>	
α-Bisabolol	-	-	
Camphene	1160	0.116	
δ-3-Carene	213	0.0213	
β-Caryophyllene	1100	0.110	
Caryophyllene oxide	39.1	0.00391	
p-Cymene	-	-	
Eucalyptol	1140	0.114	
Geraniol	2830	0.283	
Guaiol	1020	0.102	
α-Humulene	456	0.0456	
Isopulegol	456	0.0456	
d-Limonene	2830	0.283	
Linalool	19.7	0.00197	
β-Myrcene	280	0.0280	
cis-Nerolidol	121	0.0121	
trans-Nerolidol	125	0.0125	
α-Ocimene	2350	0.235	
β-Ocimene	80.1	0.00801	
α-Pinene	66.6	0.00666	
β-Pinene	2960	0.296	
α-Terpinene	-	-	
γ-Terpinene	5040	0.504	
Terpinolene	2070	0.207	
<b>TOTAL</b>	<b>24400</b>	<b>2.44</b>	



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

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"-" Not detected above RL.

**Reporting Limit (µg/g): 17.8**

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

**Analysis Date/Time:** 07/03/2022 0109

**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)	-	0.0178	0.142	0.5	Kresoxim-methyl (143390-89-0)	-	0.0178	0.142	0.4
Acephate (30560-19-1)	-	0.0178	0.142	0.4	Malathion (121-75-5)	-	0.0178	0.142	0.2
Acetaminophen (57960-19-7)	-	0.0178	0.142	2	Metalaxyl (57837-19-1)	-	0.0178	0.142	0.2
Acetamiprid (135410-20-7)	-	0.0178	0.142	0.2	Methiocarb (2032-65-7)	-	0.0178	0.142	0.2
Aldicarb (116-06-3)	-	0.0178	0.142	0.4	Methomyl (16752-77-5)	-	0.0178	0.142	0.4
Azoxystrobin (131860-33-8)	-	0.0178	0.142	0.2	Methyl parathion (298-0-0)	-	0.0178	0.142	0.2
Bifenazate (149877-41-8)	-	0.0178	0.142	0.2	MGK 264 (113-48-4)	-	0.0178	0.142	0.2
Bifenthrin (82657-04-3)	-	0.0178	0.142	0.2	Myclobutanil (88671-89-0)	-	0.0178	0.142	0.2
Boscalid (188425-85-6)	-	0.0178	0.142	0.4	Naled (300-76-5)	-	0.0178	0.142	0.5
Carbaryl (63-25-2)	-	0.0178	0.142	0.2	Oxamyl (23135-22-0)	-	0.0178	0.142	1
Carbofuran (1563-66-2)	-	0.0178	0.142	0.2	Paclobutrazol (76738-62-0)	-	0.0178	0.142	0.4
Chlorantraniliprole (800008-45-7)	-	0.0178	0.142	0.2	Permethrins (52645-53-1)	-	0.0178	0.142	0.2
Chlorfenapyr (122453-73-0)	-	0.0178	0.142	1	Phosmet (732-11-6)	-	0.0178	0.142	0.2
Chlorpyrifos (2921-88-2)	-	0.0178	0.142	0.2	Piperonyl butoxide (51-03-6)	-	0.0178	0.142	2
Clofentezine (74115-24-5)	-	0.0178	0.142	0.2	Prallethrin (2331-36-9)	-	0.0178	0.142	0.2
Cyfluthrin (68359-37-5)	-	0.0178	0.142	1	Propiconazole (60207-90-1))	-	0.0178	0.142	0.4
Cypermethrin (52315-07-8)	-	0.0178	0.142	1	Propoxur (114-26-1)	-	0.0178	0.142	0.2
Daminozide (1596-84-5)	-	0.0178	0.142	1	Pyrethrins (8003-34-7)	-	0.0178	0.142	1
DDVP (62-73-7)	-	0.0178	0.142	0.1	Pyridaben (96489-71-3)	-	0.0178	0.142	0.2
Diazinon (333-41-5)	-	0.0178	0.142	0.2	Spinosad (168316-95-8)	-	0.0178	0.142	0.2
Dimethoate (60-51-5)	-	0.0178	0.142	0.2	Spiromesifen (283594-90-1)	-	0.0178	0.142	0.2
Ethoprophos (13194-48-4)	-	0.0178	0.142	0.2	Spirotetramat (203313-25-1)	-	0.0178	0.142	0.2
Etofenprox (80844-07-1)	-	0.0178	0.142	0.4	Spiroxamine (118134-30-8)	-	0.0178	0.142	0.4
Etoazoxole (153233-91-1)	-	0.0178	0.142	0.2	Tebuconazole (80443-41-0)	-	0.0178	0.142	0.4
Fenoxycarb (72490-01-8)	-	0.0178	0.142	0.2	Thiacloprid (111988-49-9)	-	0.0178	0.142	0.2
(E)-Fenpyroximate (134098-61-6)	-	0.0178	0.142	0.4	Thiamethoxam (153719-23-4)	-	0.0178	0.142	0.2
Fipronil (120068-37-3)	-	0.0178	0.142	0.4	Trifloxystrobin (141517-21-7)	-	0.0178	0.142	0.2
Flonicamid (158062-67-0)	-	0.0178	0.142	1					
Fludioxinil (131341-86-1)	-	0.0178	0.142	0.4					
Hexythiazox (78587-05-0)	-	0.0178	0.142	1					
Imazalil (35554-44-0)	-	0.0178	0.142	0.2					
Imidacloprid (138261-41-3)	-	0.0178	0.142	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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**HEAVY METAL PROFILE (SOP: SOP-ICP-200.7)**

<b>Analysis Date/Time:</b> 07/02/2022 1312 (ICP/OES)	<b>Method:</b> ICP/OES	<b>Deviations from SOP:</b>
<b>Analysis Date/Time:</b> - (DMA)	<b>Instrument:</b> Agilent 720-ES	None
<b>Analyst:</b> KF		

<b>Heavy Metal</b>	<b>Result (µg/kg)</b>	<b>LOD (µg/kg)</b>	<b>LOQ (µg/kg)</b>	<b>Action Level (µg/kg)</b>
Arsenic (As)	-	49.0	93.0	200
Cadmium (Cd)	-	49.0	93.0	200
Lead (Pb)	-	49.0	93.0	500
Mercury (Hg)	-	49.0	93.0	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**

<b>RESULT &lt; AL</b>
<b>RESULT &gt; AL</b>

"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)**

<b>Analysis Date/Time:</b> 07/01/2022 1125	<b>Method:</b> Hardy Diagnostics CompactDry	<b>Deviations from SOP:</b>
<b>Analyst:</b> PW	<b>Instrument:</b> Thermo Incubator	None

<b>Bacteria/Microbe</b>	<b>Result (CFU/g)</b>	<b>Action Level (CFU/g)</b>
Aerobic Plate Count	NT	-
Coliforms, Total	Absent	1
Escherichia Coli (E. Coli)	Absent	100
Mold/Yeast	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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