

**SUMMARY OF ANALYSIS (SAMPLE ID: SA39705)**

<b>Testing Location:</b>	<b>Customer ID:</b> 2161	<b>Order ID:</b> OR11347	<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	M00065C13131040326	<b>Mass:</b> 17g
Greenbrier, AR 72058	Fort Smith, AR 72903	<b>Production Run:</b>	<b>Date Collected:</b> 12/19/2024
License: ADH 113	License: 00065C	4081H20241105BJO-5	<b>Date Received:</b> 12/19/2024
<b>Cultivar (Strain) or Sample Description:</b> Banjo			<b>Date Completed:</b> 12/23/2024

\*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 (%)**

11.3

**Water Activity (aw)**

0.391 @ 24.1°C

**PASS/FAIL**

**PASS**

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

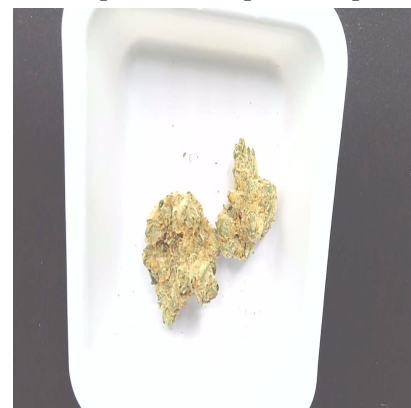
Moisture content levels less than 15% are recommended but the sample does not fail. Water activity levels must be less than 0.65aw.

<b>Cannabinoids (Top 3)</b>	<b>(%)</b>	<b>mg/g</b>
THCA	21.5	215
Δ9-THC	1.23	12.3
CBGA	1.22	12.2
TOTAL CBD	0.000	0.000
TOTAL THC	20.1	201
TOTAL CANNABINOIDS	24.8	248

<b>Terpenes (Top 5)</b>	<b>(%)</b>	<b>µg/g</b>
Terpinolene	0.870	8700
β-Myrcene	0.337	3370
β-Caryophyllene	0.301	3010
β-Ocimene	0.227	2270
Linalool	0.202	2020
TOTAL TERPENES	2.65	26500

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



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License: ADH 113	License: 00065C	4081H20241105BJO-5	<b>Date Received:</b> 12/19/2024
<b>Cultivar (Strain) or Sample Description:</b> Banjo			<b>Date Completed:</b> 12/23/2024

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

**Analysis Date/Time:** 12/20/2024 1436

**Method:** HPLC/DAD

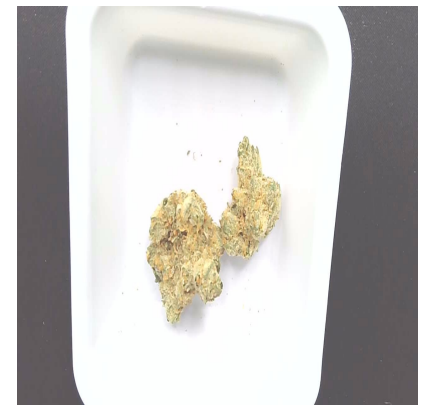
**Moisture Content (%):** 11.3

**Analyst:** PW

**Instrument:** Agilent 1100

**Water Activity (aw):** 0.391 @ 24.1°C

<b>Cannabinoid</b>	<b>Result (%)</b>	<b>Result (mg/g)</b>	<b>LOD (mg/g)</b>	<b>LOQ (mg/g)</b>	<b>Result (mg/mL)</b>	<b>Per Serving (mg)</b>	<b>Per Unit (mg)</b>
CBC	ND	ND	0.0426	0.0995	-	0.000	0.000
CBCA	ND	ND	0.132	0.309	-	0.000	0.000
CBD	ND	ND	0.301	0.702	-	0.000	0.000
CBDV	ND	ND	0.111	0.258	-	0.000	0.000
CBDVA	ND	ND	0.0482	0.113	-	0.000	0.000
CBDVA	ND	ND	0.129	0.300	-	0.000	0.000
CBG	ND	ND	0.195	0.456	-	0.000	0.000
CBGA	1.22	12.2	0.277	0.327	-	10.8	10.8
CBL	ND	ND	0.226	0.527	-	0.000	0.000
CBN	ND	ND	0.104	0.242	-	0.000	0.000
CBNA	ND	ND	0.112	0.261	-	0.000	0.000
CBT	ND	ND	0.162	0.378	-	0.000	0.000
Δ9-THC	1.23	12.3	0.124	0.289	-	10.9	10.9
Δ8-THC	ND	ND	0.194	0.452	-	0.000	0.000
THCA	21.5	215	0.0673	0.157	-	191	191
THCV	ND	ND	0.162	0.377	-	0.000	0.000
THCVA	0.874	8.74	0.0516	0.120	-	7.75	7.75
<b>TOTAL</b>	<b>24.8</b>	<b>248</b>			-	<b>220</b>	<b>220</b>
<b>TOTAL CBC</b>	<b>0.000</b>	<b>0.000</b>			-	<b>0.000</b>	<b>0.000</b>
<b>TOTAL CBD</b>	<b>0.000</b>	<b>0.000</b>			-	<b>0.000</b>	<b>0.000</b>
<b>TOTAL CBDV</b>	<b>0.000</b>	<b>0.000</b>			-	<b>0.000</b>	<b>0.000</b>
<b>TOTAL CBG</b>	<b>1.07</b>	<b>10.7</b>			-	<b>9.48</b>	<b>9.48</b>
<b>TOTAL CBN</b>	<b>0.000</b>	<b>0.000</b>			-	<b>0.000</b>	<b>0.000</b>
<b>TOTAL THC</b>	<b>20.1</b>	<b>201</b>			-	<b>178</b>	<b>178</b>
<b>TOTAL THCV</b>	<b>0.758</b>	<b>7.58</b>			-	<b>6.72</b>	<b>6.72</b>



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

"-" Not reported for this sample.

*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.

*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,  
ND - Not Detected (less than LOD)

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**TERPENOID PROFILE**

**Analysis Date/Time:** 12/20/2024 2041  
**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	744	0.0744
Camphene	87.0	0.00870
δ-3-Carene	315	0.0315
β-Caryophyllene	3010	0.301
Caryophyllene oxide	118	0.0118
p-Cymene	<LOQ	-
Eucalyptol	<LOQ	-
Geraniol	118	0.0118
Guaiol	ND	-
α-Humulene	1360	0.136
Isopulegol	<LOQ	-
d-Limonene	1530	0.153
Linalool	2020	0.202
β-Myrcene	3370	0.337
cis-Nerolidol	ND	-
trans-Nerolidol	ND	-
α-Ocimene	<LOQ	-
β-Ocimene	2270	0.227
α-Pinene	902	0.0902
β-Pinene	1500	0.150
α-Terpinene	297	0.0297
γ-Terpinene	165	0.0165
Terpinolene	8700	0.870
<b>TOTAL</b>	<b>26500</b>	<b>2.65</b>



**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): 46.7**

"-" Not detected above LOD.

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

**Analysis Date/Time:** 12/20/2024 1511  
**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)	-	0.0466	0.373	0.5	Kresoxim-methyl (143390-89-0)	-	0.0466	0.373	0.4
Acephate (30560-19-1)	-	0.0466	0.373	0.4	Malathion (121-75-5)	-	0.0466	0.373	0.2
Acetaminocyl (57960-19-7)	-	0.0466	0.373	2	Metalaxyl (57837-19-1)	-	0.0466	0.373	0.2
Acetamiprid (135410-20-7)	-	0.0466	0.373	0.2	Methiocarb (2032-65-7)	-	0.0466	0.373	0.2
Aldicarb (116-06-3)	-	0.0466	0.373	0.4	Methomyl (16752-77-5)	-	0.0466	0.373	0.4
Azoxystrobin (131860-33-8)	-	0.0466	0.373	0.2	Methyl parathion (298-0-0)	-	0.0466	0.373	0.2
Bifenazate (149877-41-8)	-	0.0466	0.373	0.2	MGK 264 (113-48-4)	-	0.0466	0.373	0.2
Bifenthrin (82657-04-3)	-	0.0466	0.373	0.2	Myclobutanil (88671-89-0)	-	0.0466	0.373	0.2
Boscalid (188425-85-6)	-	0.0466	0.373	0.4	Naled (300-76-5)	-	0.0466	0.373	0.5
Carbaryl (63-25-2)	-	0.0466	0.373	0.2	Oxamyl (23135-22-0)	-	0.0466	0.373	1
Carbofuran (1563-66-2)	-	0.0466	0.373	0.2	Paclobutrazol (76738-62-0)	-	0.0466	0.373	0.4
Chlorantraniliprole (800008-45-7)	-	0.0466	0.373	0.2	Permethrins (52645-53-1)	-	0.0466	0.373	0.2
Chlorfenapyr (122453-73-0)	-	0.0466	0.373	1	Phosmet (732-11-6)	-	0.0466	0.373	0.2
Chlorpyrifos (2921-88-2)	-	0.0466	0.373	0.2	Piperonyl butoxide (51-03-6)	-	0.0466	0.373	2
Clofentezine (74115-24-5)	-	0.0466	0.373	0.2	Prallethrins (2331-36-9)	-	0.0466	0.373	0.2
Cyfluthrin (68359-37-5)	-	0.0466	0.373	1	Propiconazole (60207-90-1)	-	0.0466	0.373	0.4
Cypermethrin (52315-07-8)	-	0.0466	0.373	1	Propoxur (114-26-1)	-	0.0466	0.373	0.2
Daminozide (1596-84-5)	-	0.0466	0.373	1	Pyrethrins (8003-34-7)	-	0.0466	0.373	1
DDVP (62-73-7)	-	0.0466	0.373	0.1	Pyridaben (96489-71-3)	-	0.0466	0.373	0.2
Diazinon (333-41-5)	-	0.0466	0.373	0.2	Spinosad (168316-95-8)	-	0.0466	0.373	0.2
Dimethoate (60-51-5)	-	0.0466	0.373	0.2	Spiromesifen (283594-90-1)	-	0.0466	0.373	0.2
Ethoprophos (13194-48-4)	-	0.0466	0.373	0.2	Spirotetramat (203313-25-1)	-	0.0466	0.373	0.2
Etofenprox (80844-07-1)	-	0.0466	0.373	0.4	Spiroxamine (118134-30-8)	-	0.0466	0.373	0.4
Etoazazole (153233-91-1)	-	0.0466	0.373	0.2	Tebuconazole (80443-41-0)	-	0.0466	0.373	0.4
Fenoxycarb (72490-01-8)	-	0.0466	0.373	0.2	Thiacloprid (111988-49-9)	-	0.0466	0.373	0.2
(E)-Fenpyroximate (134098-61-6)	-	0.0466	0.373	0.4	Thiamethoxam (153719-23-4)	-	0.0466	0.373	0.2
Fipronil (120068-37-3)	-	0.0466	0.373	0.4	Trifloxystrobin (141517-21-7)	-	0.0466	0.373	0.2
Flonicamid (158062-67-0)	-	0.0466	0.373	1					
Fludioxinil (131341-86-1)	-	0.0466	0.373	0.4					
Hexythiazox (78587-05-0)	-	0.0466	0.373	1					
Imazalil (35554-44-0)	-	0.0466	0.373	0.2					
Imidacloprid (138261-41-3)	-	0.0466	0.373	0.4					



**Color Key**

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

"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-200.6)**

**Analysis Date/Time:** 12/20/2024 1809

**Method:** ICP/MS

**Deviations from SOP:**

**Instrument:** Agilent 7500ce

None

**Analyst:** 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)	-	58.7	92.9	200
Cadmium (Cd)	-	58.7	92.9	200
Lead (Pb)	-	58.7	92.9	500
Mercury (Hg)	-	58.7	92.9	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**

<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> 12/20/2024 1334	<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	-
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

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