

SUMMARY OF ANALYSIS (SAMPLE ID: SA31840)

Testing Location: Arkansas 232 S. Broadview St. Greenbrier, AR 72058 License: ADH 113	Customer ID: 2161 River Valley Relief Cultivation 5601 Old Greenwood Rd Suite C Fort Smith, AR 72903 License: 00065C	Order ID: OR9903 Lot Number: M00065C13138036871 Batch Number: 5005	Sample Type: Primary Matrix: Flower Mass: 23g Date Collected: 06/29/2022 Date Received: 06/30/2022
Cultivar (Strain) or Sample Description: Banjo			Date Completed: 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 (%)

14.4

Water Activity (aw)

0.465 @ 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.

Cannabinoids (Top 3)	(%)	mg/g
THCA	17.3	173
CBGA	1.38	13.8
Δ9-THC	1.04	10.4
TOTAL CBD	-	-
TOTAL THC	16.2	162
TOTAL CANNABINOIDS	20.9	209

Terpenes (Top 5)	(%)	µg/g
γ-Terpinene	0.544	5440
β-Pinene	0.351	3510
Geraniol	0.324	3240
α-Ocimene	0.264	2640
Terpinolene	0.190	1900
TOTAL TERPENES	2.42	24200

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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Mandatory

REPORT OF LABORATORY ANALYSIS

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

www.FASTLaboratories.com



CERTIFICATE OF ANALYSIS (SAMPLE ID: SA31840)

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Cultivar (Strain) or Sample Description: Banjo **Date Completed:** 07/04/2022

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

Analysis Date/Time: 07/01/2022 1954 **Method:** HPLC/DAD **Moisture Content (%):** 14.4
Analyst: PW **Instrument:** Agilent 1100 **Water Activity (aw):** 0.4647 @ 25.02°C

<u>Cannabinoid</u>	<u>Result (%)</u>	<u>UM (+/-%)</u>	<u>Result (mg/g)</u>	<u>LOQ (mg/g)</u>	<u>Result (mg/mL)</u>	<u>Per Serving (mg)</u>	<u>Per Unit (mg)</u>
CBC	DET	-	DET	0.425	-	-	-
CBCA	0.0791	0.00633	0.791	0.425	-	0.791	0.791
CBD	DET	-	DET	0.425	-	-	-
CBDA	DET	-	DET	0.425	-	-	-
CBDV	-	-	-	0.425	-	-	-
CBDVA	0.174	0.0156	1.74	0.425	-	1.74	1.74
CBG	0.128	0.0167	1.28	0.425	-	1.28	1.28
CBGA	1.38	0.151	13.8	0.425	-	13.8	13.8
CBL	DET	-	DET	0.425	-	-	-
CBN	-	-	-	0.425	-	-	-
CBNA	DET	-	DET	0.425	-	-	-
Δ9-THC	1.04	0.177	10.4	0.425	-	10.4	10.4
Δ8-THC	-	-	-	0.425	-	-	-
THCA	17.3	1.73	173	0.425	-	173	173
THCV	0.0697	0.00558	0.697	0.425	-	0.697	0.697
THCVA	0.698	0.0349	6.98	0.425	-	6.98	6.98
TOTAL	20.9	2.14	209			209	209
TOTAL CBC	0.0694	0.00555	0.694			0.694	0.694
TOTAL CBD	-	-	-			-	-
TOTAL CBDV	0.151	0.0136	1.51			1.51	1.51
TOTAL CBG	1.34	0.150	13.4			13.4	13.4
TOTAL CBN	-	-	-			-	-
TOTAL THC	16.2	1.70	162			162	162
TOTAL THCV	0.675	0.0359	6.75			6.75	6.75



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 = (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) + 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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TERPENOID PROFILE

Analysis Date/Time: 07/02/2022 0242
Analyst: KF

Method: GC/MS
Instrument: Agilent 7890/5975

Deviations from SOP:
None

<u>Terpene</u>	<u>Result (µg/g)</u>	<u>Result (%)</u>	
α-Bisabolol	-	-	
Camphene	1110	0.111	Orange bar
δ-3-Carene	212	0.0212	Green bar
β-Caryophyllene	1360	0.136	Orange bar
Caryophyllene oxide	27.7	0.00277	Purple bar
p-Cymene	-	-	
Eucalyptol	1590	0.159	Blue bar
Geraniol	3240	0.324	Dark blue bar
Guaiol	1190	0.119	Red bar
α-Humulene	577	0.0577	Green bar
Isopulegol	337	0.0337	Blue bar
d-Limonene	241	0.0241	Orange bar
Linalool	148	0.0148	Green bar
β-Myrcene	297	0.0297	Orange bar
cis-Nerolidol	158	0.0158	Purple bar
trans-Nerolidol	116	0.0116	Yellow bar
α-Ocimene	2640	0.264	Blue bar
β-Ocimene	94.7	0.00947	Blue bar
α-Pinene	33.8	0.00338	Red bar
β-Pinene	3510	0.351	Green bar
α-Terpinene	-	-	
γ-Terpinene	5440	0.544	Yellow bar
Terpinolene	1900	0.190	Red bar
TOTAL	24200	2.42	



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

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"-" Not detected above RL.

Reporting Limit (µg/g): 17.0

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



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PESTICIDES PROFILE (SOP: SOP-PEST-001)

Analysis Date/Time: 07/03/2022 0124
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)	-	0.0170	0.136	0.5	Kresoxim-methyl (143390-89-0)	-	0.0170	0.136	0.4
Acephate (30560-19-1)	-	0.0170	0.136	0.4	Malathion (121-75-5)	-	0.0170	0.136	0.2
Acetamiprid (135410-20-7)	-	0.0170	0.136	0.2	Metalaxyl (57837-19-1)	-	0.0170	0.136	0.2
Aldicarb (116-06-3)	-	0.0170	0.136	0.4	Methiocarb (2032-65-7)	-	0.0170	0.136	0.2
Azoxystrobin (131860-33-8)	-	0.0170	0.136	0.2	Methomyl (16752-77-5)	-	0.0170	0.136	0.4
Bifenazate (149877-41-8)	-	0.0170	0.136	0.2	Methyl parathion (298-0-0)	-	0.0170	0.136	0.2
Bifenthrin (82657-04-3)	-	0.0170	0.136	0.2	MGK 264 (113-48-4)	-	0.0170	0.136	0.2
Boscalid (188425-85-6)	-	0.0170	0.136	0.4	Myclobutanil (88671-89-0)	-	0.0170	0.136	0.2
Carbaryl (63-25-2)	-	0.0170	0.136	0.2	Naled (300-76-5)	-	0.0170	0.136	0.5
Carbofuran (1563-66-2)	-	0.0170	0.136	0.2	Oxamyl (23135-22-0)	-	0.0170	0.136	1
Chlorantraniliprole (800008-45-7)	-	0.0170	0.136	0.2	Pacllobutrazol (76738-62-0)	-	0.0170	0.136	0.4
Chlorfenapyr (122453-73-0)	-	0.0170	0.136	1	Permethrins (52645-53-1)	-	0.0170	0.136	0.2
Chlorpyrifos (2921-88-2)	-	0.0170	0.136	0.2	Phosmet (732-11-6)	-	0.0170	0.136	0.2
Clofentezine (74115-24-5)	-	0.0170	0.136	0.2	Piperonyl butoxide (51-03-6)	-	0.0170	0.136	2
Cyfluthrin (68359-37-5)	-	0.0170	0.136	1	Prallethrins (2331-36-9)	-	0.0170	0.136	0.2
Cypermethrin (52315-07-8)	-	0.0170	0.136	1	Propiconazole (60207-90-1))	-	0.0170	0.136	0.4
Daminozide (1596-84-5)	-	0.0170	0.136	1	Propoxur (114-26-1)	-	0.0170	0.136	0.2
DDVP (62-73-7)	-	0.0170	0.136	0.1	Pyrethrins (8003-34-7)	-	0.0170	0.136	1
Diazinon (333-41-5)	-	0.0170	0.136	0.2	Pyridaben (96489-71-3)	-	0.0170	0.136	0.2
Dimethoate (60-51-5)	-	0.0170	0.136	0.2	Spinosad (168316-95-8)	-	0.0170	0.136	0.2
Ethoprophos (13194-48-4)	-	0.0170	0.136	0.2	Spiromesifen (283594-90-1)	-	0.0170	0.136	0.2
Etofenprox (80844-07-1)	-	0.0170	0.136	0.4	Spirotetramat (203313-25-1)	-	0.0170	0.136	0.2
Etoxazole (153233-91-1)	-	0.0170	0.136	0.2	Spiroxamine (118134-30-8)	-	0.0170	0.136	0.4
Fenoxycarb (72490-01-8)	-	0.0170	0.136	0.2	Tebuconazole (80443-41-0)	-	0.0170	0.136	0.4
(E)-Fenpyroximate (134098-61-6)	-	0.0170	0.136	0.4	Thiacloprid (111988-49-9)	-	0.0170	0.136	0.2
Fipronil (120068-37-3)	-	0.0170	0.136	0.4	Thiamethoxam (153719-23-4)	-	0.0170	0.136	0.2
Fonicamid (158062-67-0)	-	0.0170	0.136	1	Trifloxystrobin (141517-21-7)	-	0.0170	0.136	0.2
Fludioxinil (131341-86-1)	-	0.0170	0.136	0.4					
Hexythiazox (78587-05-0)	-	0.0170	0.136	1					
Imazalil (35554-44-0)	-	0.0170	0.136	0.2					
Imidacloprid (138261-41-3)	-	0.0170	0.136	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)

Analysis Date/Time: 07/02/2022 1315 (ICP/OES) **Method:** ICP/OES **Deviations from SOP:**
Analysis Date/Time: - (DMA) **Instrument:** Agilent 720-ES None
Analyst: KF

<u>Heavy Metal</u>	<u>Result</u> (µg/kg)	<u>LOD</u> (µg/kg)	<u>LOQ</u> (µg/kg)	<u>Action Level</u> (µg/kg)
Arsenic (As)	-	46.3	87.9	200
Cadmium (Cd)	-	46.3	87.9	200
Lead (Pb)	-	46.3	87.9	500
Mercury (Hg)	-	46.3	87.9	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



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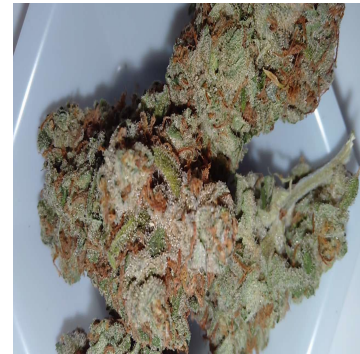
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MICROBIOLOGICAL PROFILE (SOP: SOP-Micro-001)

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

<u>Bacteria/Microbe</u>	<u>Result (CFU/g)</u>	<u>Action Level (CFU/g)</u>
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

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