

SUMMARY OF ANALYSIS (SAMPLE ID: SA31762)

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: OR9888 Lot Number: M00065C13130260296 Batch Number: M00065C13135881906	Sample Type: Primary Matrix: Flower Mass: 6.68g Date Collected: 06/22/2022 Date Received: 06/22/2022
Cultivar (Strain) or Sample Description: Banjo			Date Completed: 06/24/2022

*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 (%)

10.3

Water Activity (aw)

0.516 @ 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	14.4	144
CBGA	1.33	13.3
Δ9-THC	0.944	9.44
TOTAL CBD	-	-
TOTAL THC	13.6	136
TOTAL CANNABINOIDS	17.5	175

Terpenes (Top 5)	(%)	µg/g
Terpinolene	0.231	2310
β-Myrcene	0.155	1550
β-Caryophyllene	0.143	1430
d-Limonene	0.0864	864
α-Ocimene	0.0858	858
TOTAL TERPENES	0.998	9980

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 flower

REPORT OF LABORATORY ANALYSIS

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

www.FASTLaboratories.com



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

Analysis Date/Time: 06/24/2022 0238 **Method:** HPLC/DAD **Moisture Content (%):** 10.3
Analyst: PW **Instrument:** Agilent 1100 **Water Activity (aw):** 0.5161 @ 25.01°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	0.493	-	-	-
CBCA	DET	-	DET	0.493	-	-	-
CBD	-	-	-	0.493	-	-	-
CBDA	DET	-	DET	0.493	-	-	-
CBDV	DET	-	DET	0.493	-	-	-
CBDVA	DET	-	DET	0.493	-	-	-
CBG	-	-	-	0.493	-	-	-
CBGA	1.33	0.147	13.3	0.493	-	13.3	13.3
CBL	0.0607	0.00849	0.607	0.493	-	0.607	0.607
CBN	-	-	-	0.493	-	-	-
CBNA	DET	-	DET	0.493	-	-	-
Δ9-THC	0.944	0.160	9.44	0.493	-	9.44	9.44
Δ8-THC	-	-	-	0.493	-	-	-
THCA	14.4	1.44	144	0.493	-	144	144
THCV	0.0992	0.00794	0.992	0.493	-	0.992	0.992
THCVA	0.585	0.0293	5.85	0.493	-	5.85	5.85
TOTAL	17.5	1.80	175			175	175
TOTAL CBC	-	-	-			-	-
TOTAL CBD	-	-	-			-	-
TOTAL CBDV	-	-	-			-	-
TOTAL CBG	1.17	0.129	11.7			11.7	11.7
TOTAL CBN	-	-	-			-	-
TOTAL THC	13.6	1.43	136			136	136
TOTAL THC V	0.607	0.0333	6.07			6.07	6.07



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 THC V = (THCVA x 0.867) + THC V

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: 6/24/2022 1535
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	494	0.0494	■
Camphene	-	-	
δ-3-Carene	-	-	
β-Caryophyllene	1430	0.143	■
Caryophyllene oxide	35.1	0.00351	
p-Cymene	-	-	
Eucalyptol	-	-	
Geraniol	23.8	0.00238	
Guaiol	-	-	
α-Humulene	532	0.0532	■
Isopulegol	55.8	0.00558	
d-Limonene	864	0.0864	■
Linalool	838	0.0838	■
β-Myrcene	1550	0.155	■
cis-Nerolidol	219	0.0219	
trans-Nerolidol	-	-	
α-Ocimene	858	0.0858	■
β-Ocimene	-	-	
α-Pinene	281	0.0281	
β-Pinene	487	0.0487	■
α-Terpinene	-	-	
γ-Terpinene	-	-	
Terpinolene	2310	0.231	■
TOTAL	9980	0.998	



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

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"-" Not detected above RL.

Reporting Limit (µg/g): 19.7

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PESTICIDES PROFILE (SOP: SOP-PEST-001)

Analysis Date/Time: 06/24/2022 0612
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)	-	0.0197	0.158	0.5	Kresoxim-methyl (143390-89-0)	-	0.0197	0.158	0.4
Acephate (30560-19-1)	-	0.0197	0.158	0.4	Malathion (121-75-5)	-	0.0197	0.158	0.2
Acetamiprid (57960-19-7)	-	0.0197	0.158	2	Metalaxyl (57837-19-1)	-	0.0197	0.158	0.2
Acetamiprid (135410-20-7)	-	0.0197	0.158	0.2	Methiocarb (2032-65-7)	-	0.0197	0.158	0.2
Aldicarb (116-06-3)	-	0.0197	0.158	0.4	Methomyl (16752-77-5)	-	0.0197	0.158	0.4
Azoxystrobin (131860-33-8)	-	0.0197	0.158	0.2	Methyl parathion (298-0-0)	-	0.0197	0.158	0.2
Bifenazate (149877-41-8)	-	0.0197	0.158	0.2	MGK 264 (113-48-4)	-	0.0197	0.158	0.2
Bifenthrin (82657-04-3)	-	0.0197	0.158	0.2	Myclobutanil (88671-89-0)	-	0.0197	0.158	0.2
Boscalid (188425-85-6)	-	0.0197	0.158	0.4	Naled (300-76-5)	-	0.0197	0.158	0.5
Carbaryl (63-25-2)	-	0.0197	0.158	0.2	Oxamyl (23135-22-0)	-	0.0197	0.158	1
Carbofuran (1563-66-2)	-	0.0197	0.158	0.2	Pacllobutrazol (76738-62-0)	-	0.0197	0.158	0.4
Chlorantraniliprole (800008-45-7)	-	0.0197	0.158	0.2	Permethrins (52645-53-1)	-	0.0197	0.158	0.2
Chlorfenapyr (122453-73-0)	-	0.0197	0.158	1	Phosmet (732-11-6)	-	0.0197	0.158	0.2
Chlorpyrifos (2921-88-2)	-	0.0197	0.158	0.2	Piperonyl butoxide (51-03-6)	-	0.0197	0.158	2
Clofentezine (74115-24-5)	-	0.0197	0.158	0.2	Prallethrins (2331-36-9)	-	0.0197	0.158	0.2
Cyfluthrin (68359-37-5)	-	0.0197	0.158	1	Propiconazole (60207-90-1)	-	0.0197	0.158	0.4
Cypermethrin (52315-07-8)	-	0.0197	0.158	1	Propoxur (114-26-1)	-	0.0197	0.158	0.2
Daminozide (1596-84-5)	-	0.0197	0.158	1	Pyrethrins (8003-34-7)	-	0.0197	0.158	1
DDVP (62-73-7)	-	0.0197	0.158	0.1	Pyridaben (96489-71-3)	-	0.0197	0.158	0.2
Diazinon (333-41-5)	-	0.0197	0.158	0.2	Spinosad (168316-95-8)	-	0.0197	0.158	0.2
Dimethoate (60-51-5)	-	0.0197	0.158	0.2	Spiromesifen (283594-90-1)	-	0.0197	0.158	0.2
Ethoprophos (13194-48-4)	-	0.0197	0.158	0.2	Spirotetramat (203313-25-1)	-	0.0197	0.158	0.2
Etofenprox (80844-07-1)	-	0.0197	0.158	0.4	Spiroxamine (118134-30-8)	-	0.0197	0.158	0.4
Etoxazole (153233-91-1)	-	0.0197	0.158	0.2	Tebuconazole (80443-41-0)	-	0.0197	0.158	0.4
Fenoxycarb (72490-01-8)	-	0.0197	0.158	0.2	Thiacloprid (111988-49-9)	-	0.0197	0.158	0.2
(E)-Fenpyroximate (134098-61-6)	-	0.0197	0.158	0.4	Thiamethoxam (153719-23-4)	-	0.0197	0.158	0.2
Fipronil (120068-37-3)	-	0.0197	0.158	0.4	Trifloxystrobin (141517-21-7)	-	0.0197	0.158	0.2
Fonicamid (158062-67-0)	-	0.0197	0.158	1					
Fludioxinil (131341-86-1)	-	0.0197	0.158	0.4					
Hexythiazox (78587-05-0)	-	0.0197	0.158	1					
Imazalil (35554-44-0)	-	0.0197	0.158	0.2					
Imidacloprid (138261-41-3)	-	0.0197	0.158	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: 06/24/2022 1027 (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)	-	49.7	94.3	200
Cadmium (Cd)	-	49.7	94.3	200
Lead (Pb)	-	49.7	94.3	500
Mercury (Hg)	-	49.7	94.3	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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MICROBIOLOGICAL PROFILE (SOP: SOP-Micro-001)

Analysis Date/Time: 06/23/2022 1410 **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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