

SUMMARY OF ANALYSIS (SAMPLE ID: SA32082)

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: OR9977 Lot Number: M00065C13138570168 Production Run: 6006H20220701BJO1	Sample Type: Primary Matrix: Flower Mass: 15.21g Date Collected: 08/17/2022 Date Received: 08/17/2022
Cultivar (Strain) or Sample Description: Banjo			Date Completed: 08/20/2022

*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 (%)

14.6

Water Activity (aw)

0.540 @ 25.1°C

PASS/FAIL

PASS

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

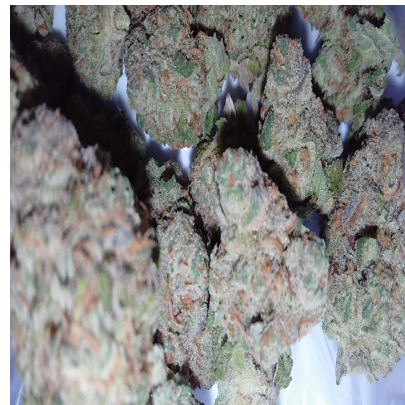
Moisture content levels less than 15% are recommended but the sample does not fail. Water activity levels must be less than 0.65aw.

Cannabinoids (Top 3)	(%)	mg/g
THCA	15.6	156
Δ9-THC	1.13	11.3
CBGA	0.944	9.44
TOTAL CBD	-	-
TOTAL THC	14.8	148
TOTAL CANNABINOIDS	18.4	184

Terpenes (Top 5)	(%)	µg/g
Terpinolene	0.445	4450
β-Caryophyllene	0.328	3280
Linalool	0.206	2060
β-Ocimene	0.193	1930
β-Myrcene	0.175	1750
TOTAL TERPENES	2.11	21100

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



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

Analysis Date/Time: 8/19/2022 1217 **Method:** HPLC/DAD **Moisture Content (%):** 14.6
Analyst: PW **Instrument:** Agilent 1100 **Water Activity (aw):** 0.5398 @ 25.08°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	-	-	-	0.473	-	-	-
CBCA	-	-	-	0.473	-	-	-
CBD	-	-	-	0.473	-	-	-
CBDA	-	-	-	0.473	-	-	-
CBDV	-	-	-	0.473	-	-	-
CBDVA	-	-	-	0.473	-	-	-
CBG	-	-	-	0.473	-	-	-
CBGA	0.944	0.104	9.44	0.473	-	9.44	9.44
CBL	-	-	-	0.473	-	-	-
CBN	-	-	-	0.473	-	-	-
CBNA	-	-	-	0.473	-	-	-
Δ9-THC	1.13	0.192	11.3	0.473	-	11.3	11.3
Δ8-THC	-	-	-	0.473	-	-	-
THCA	15.6	1.56	156	0.473	-	156	156
THCV	-	-	-	0.473	-	-	-
THCVA	0.646	0.0323	6.46	0.473	-	6.46	6.46
TOTAL	18.4	1.89	184			184	184
TOTAL CBC	-	-	-			-	-
TOTAL CBD	-	-	-			-	-
TOTAL CBDV	-	-	-			-	-
TOTAL CBG	0.829	0.0912	8.29			8.29	8.29
TOTAL CBN	-	-	-			-	-
TOTAL THC	14.8	1.56	148			148	148
TOTAL THC V	0.560	0.0280	5.60			5.60	5.60



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: 8/19/2022 1816
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	745	0.0745	■
Camphene	41.1	0.00411	■
δ-3-Carene	197	0.0197	■
β-Caryophyllene	3280	0.328	■
Caryophyllene oxide	133	0.0133	■
p-Cymene	-	-	
Eucalyptol	-	-	
Geraniol	271	0.0271	■
Guaiol	-	-	
α-Humulene	1420	0.142	■
Isopulegol	28.8	0.00288	■
d-Limonene	1300	0.130	■
Linalool	2060	0.206	■
β-Myrcene	1750	0.175	■
cis-Nerolidol	680	0.0680	■
trans-Nerolidol	71.2	0.00712	■
α-Ocimene	1180	0.118	■
β-Ocimene	1930	0.193	■
α-Pinene	448	0.0448	■
β-Pinene	783	0.0783	■
α-Terpinene	198	0.0198	■
γ-Terpinene	133	0.0133	■
Terpinolene	4450	0.445	■
TOTAL	21100	2.11	



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

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"-" Not detected above RL.

Reporting Limit (µg/g): 18.9

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PESTICIDES PROFILE (SOP: SOP-PEST-001)

Analysis Date/Time: 8/19/2022 1658
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)	-	0.0189	0.152	0.5	Kresoxim-methyl (143390-89-0)	-	0.0189	0.152	0.4
Acephate (30560-19-1)	-	0.0189	0.152	0.4	Malathion (121-75-5)	-	0.0189	0.152	0.2
Acetaminocyl (57960-19-7)	-	0.0189	0.152	2	Metalaxyl (57837-19-1)	-	0.0189	0.152	0.2
Acetamiprid (135410-20-7)	-	0.0189	0.152	0.2	Methiocarb (2032-65-7)	-	0.0189	0.152	0.2
Aldicarb (116-06-3)	-	0.0189	0.152	0.4	Methomyl (16752-77-5)	-	0.0189	0.152	0.4
Azoxystrobin (131860-33-8)	-	0.0189	0.152	0.2	Methyl parathion (298-0-0)	-	0.0189	0.152	0.2
Bifenazate (149877-41-8)	-	0.0189	0.152	0.2	MGK 264 (113-48-4)	-	0.0189	0.152	0.2
Bifenthrin (82657-04-3)	-	0.0189	0.152	0.2	Myclobutanil (88671-89-0)	-	0.0189	0.152	0.2
Boscalid (188425-85-6)	-	0.0189	0.152	0.4	Naled (300-76-5)	-	0.0189	0.152	0.5
Carbaryl (63-25-2)	-	0.0189	0.152	0.2	Oxamyl (23135-22-0)	-	0.0189	0.152	1
Carbofuran (1563-66-2)	-	0.0189	0.152	0.2	Pacllobutrazol (76738-62-0)	-	0.0189	0.152	0.4
Chlorantraniliprole (800008-45-7)	-	0.0189	0.152	0.2	Permethrins (52645-53-1)	-	0.0189	0.152	0.2
Chlorfenapyr (122453-73-0)	-	0.0189	0.152	1	Phosmet (732-11-6)	-	0.0189	0.152	0.2
Chlorpyrifos (2921-88-2)	-	0.0189	0.152	0.2	Piperonyl butoxide (51-03-6)	-	0.0189	0.152	2
Clofentezine (74115-24-5)	-	0.0189	0.152	0.2	Prallethrins (2331-36-9)	-	0.0189	0.152	0.2
Cyfluthrin (68359-37-5)	-	0.0189	0.152	1	Propiconazole (60207-90-1)	-	0.0189	0.152	0.4
Cypermethrin (52315-07-8)	-	0.0189	0.152	1	Propoxur (114-26-1)	-	0.0189	0.152	0.2
Daminozide (1596-84-5)	-	0.0189	0.152	1	Pyrethrins (8003-34-7)	-	0.0189	0.152	1
DDVP (62-73-7)	-	0.0189	0.152	0.1	Pyridaben (96489-71-3)	-	0.0189	0.152	0.2
Diazinon (333-41-5)	-	0.0189	0.152	0.2	Spinosad (168316-95-8)	-	0.0189	0.152	0.2
Dimethoate (60-51-5)	-	0.0189	0.152	0.2	Spiromesifen (283594-90-1)	-	0.0189	0.152	0.2
Ethoprophos (13194-48-4)	-	0.0189	0.152	0.2	Spirotetramat (203313-25-1)	-	0.0189	0.152	0.2
Etofenprox (80844-07-1)	-	0.0189	0.152	0.4	Spiroxamine (118134-30-8)	-	0.0189	0.152	0.4
Etoxazole (153233-91-1)	-	0.0189	0.152	0.2	Tebuconazole (80443-41-0)	-	0.0189	0.152	0.4
Fenoxycarb (72490-01-8)	-	0.0189	0.152	0.2	Thiacloprid (111988-49-9)	-	0.0189	0.152	0.2
(E)-Fenpyroximate (134098-61-6)	-	0.0189	0.152	0.4	Thiamethoxam (153719-23-4)	-	0.0189	0.152	0.2
Fipronil (120068-37-3)	-	0.0189	0.152	0.4	Trifloxystrobin (141517-21-7)	-	0.0189	0.152	0.2
Fonicamid (158062-67-0)	-	0.0189	0.152	1					
Fludioxinil (131341-86-1)	-	0.0189	0.152	0.4					
Hexythiazox (78587-05-0)	-	0.0189	0.152	1					
Imazalil (35554-44-0)	-	0.0189	0.152	0.2					
Imidacloprid (138261-41-3)	-	0.0189	0.152	0.4					



Color Key



"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: 08/19/2022 0709 (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 (µg/kg)</u>	<u>LOD (µg/kg)</u>	<u>LOQ (µg/kg)</u>	<u>Action Level (µg/kg)</u>
Arsenic (As)	-	59.8	94.7	200
Cadmium (Cd)	-	59.8	94.7	200
Lead (Pb)	-	59.8	94.7	500
Mercury (Hg)	-	59.8	94.7	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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MICROBIOLOGICAL PROFILE (SOP: SOP-Micro-001)

Analysis Date/Time: 8/19/2022 1314 **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	-
Pseudomonas aeruginosa	NT	1
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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