







SUMMARY OF ANALYSIS (SAMPLE ID: SA37221)

Testing Location:	Customer ID: 2161	Order ID: OR10885	Sample Type: Primary
Arkansas	River Valley Relief Cultivation	Lot Number:	Matrix: Flower
232 S. Broadview St.	5601 Old Greenwood Rd Suite C	M00065C13138629183	Mass: 18g
Greenbrier, AR 72058	Fort Smith, AR 72903	Production Run:	Date Collected: 02/26/2024
License: ADH 113	License: 00065C	4053H20240103PPC-1	Date Received: 02/26/2024
Cultivar (Strain) or Sample Des	Date Completed: 02/28/2024		

*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.

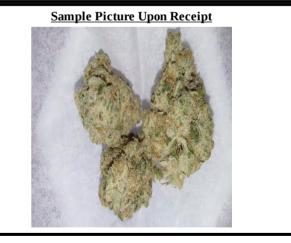
Moisture Content (%)	Water Activity (aw)	PASS/FAIL
11.6	0.420 @ 24.2°C	PASS

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.

<u>Cannabinoids (Top 3)</u>	<u>(%)</u>	mg/g
THCA	34.0	340
CBGA	1.33	13.3
CBG	0.319	3.19
TOTAL CBD	_	-
TOTAL THC	30.0	300
TOTAL CANNABINOIDS	35.8	358
<u>Terpenes (Top 5)</u>	<u>(%)</u>	<u>µg/g</u>
<u>Terpenes (Top 5)</u> d-Limonene	<u>(%)</u> 0.428	<mark>µg/g</mark> 4280
d-Limonene	0.428	4280
d-Limonene β-Myrcene	0.428 0.240	4280 2400
d-Limonene β-Myrcene β-Caryophyllene	0.428 0.240 0.216	4280 2400 2160

PASS/FAIL
PASS
PASS
PASS





Scan the QR code to verify results.

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Kyle W. Felling, Ph.D. Laboratory Director **REPORT OF LABORATORY ANALYSIS** This report shall not be reproduced, except in full, without the written consent of Felling Analytical Services and Technology (F.A.S.T.), LLC



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Cultivar (Strain) or Sample De	Date Completed: 02/28/2024		

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

Analysis Date/Time: 02/27/2024 1834 Analyst: PW Method: HPLC/DAD Instrument: Agilent 1100

<u>Cannabinoid</u>	<u>Result</u> (%)	<u>Result</u> (mg/g)	<u>LOD</u> (mg/g)	<u>LOQ</u> (mg/g)	<u>Result</u> (<u>mg/</u> <u>mL)</u>	<u>Per</u> <u>Serving</u> (mg)	<u>Per</u> g <u>Unit</u> (<u>mg)</u>
CBC	ND	ND	0.0445	0.104	-	-	-
CBCA	ND	ND	0.138	0.322	-	-	-
CBD	ND	ND	0.314	0.732	-	-	-
CBDA	ND	ND	0.115	0.269	-	-	-
CBDV	ND	ND	0.0503	0.117	-	-	-
CBDVA	ND	ND	0.134	0.313	-	-	-
CBG	0.319	3.19	0.204	0.475	-	2.82	2.82
CBGA	1.33	13.3	0.289	0.340	-	11.8	11.8
CBL	ND	ND	0.235	0.549	-	-	-
CBN	ND	ND	0.108	0.252	-	-	-
CBNA	ND	ND	0.117	0.272	-	-	-
Δ9-ΤΗC	0.218	2.18	0.129	0.302	-	1.93	1.93
$\Delta 8$ -THC	ND	ND	0.202	0.471	-	-	-
THCA	34.0	340	0.0702	0.164	-	300	300
THCV	ND	ND	0.168	0.393	-	-	-
THCVA	ND	ND	0.0538	0.125	-	-	-
TOTAL	35.8	358		,		317	317
TOTAL CBC	-	-			-	-	-
TOTAL CBD	-	-			-	-	-
TOTAL CBDV	-	-			-	-	-
TOTAL CBG	1.49	14.9			-	13.2	13.2
TOTAL CBN	-	-			-	-	-
TOTAL THC	30.0	300			-	265	265
TOTAL THCV	-	-			-	-	-

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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Moisture Content (%): 11.6 **Water Activity (aw):** 0.420 @ 24.2°C



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) + Δ 9-THC Total THCV = (THCVA x 0.867) + THCV

Percentage results are reported by mass.

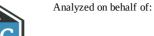
mg/g results are reported as mass component per mass material.

W. Felling, Ph.D. ory Dire











TERPENOID PROFILE

Instrument: Agilent 7890/5975

Testing Location:	Customer ID: 2161	Order ID: OR10885	Sample Type: Primary
Arkansas	River Valley Relief Cultivation	Lot Number:	Matrix: Flower
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Greenbrier, AR 72058	Fort Smith, AR 72903	Production Run:	Date Collected: 02/26/2024
License: ADH 113	License: 00065C	4053H20240103PPC-1	Date Received: 02/26/2024
Cultivar (Strain) or Sample Do	Date Completed: 02/28/2024		

Method: GC/MS

Analysis Date/Time:02/28/2024 0401 Analyst: KF

<u>Terpene</u>	<u>Result</u> (µg/g)	<u>Result</u> (%)
α-Bisabolol	197	0.0197
Camphene	186	0.0186
δ-3-Carene	ND	-
β-Caryophyllene	2160	0.216
Caryophyllene oxide	ND	-
p-Cymene	<loq< td=""><td>-</td></loq<>	-
Eucalyptol	ND	-
Geraniol	ND	-
Guaiol	347	0.0347
α-Humulene	727	0.0727
Isopulegol	ND	-
d-Limonene	4280	0.428
Linalool	1220	0.122
β-Myrcene	2400	0.240
cis-Nerolidol	ND	-
trans-Nerolidol	370	0.0370
α-Ocimene	ND	-
β-Ocimene	ND	-
α-Pinene	576	0.0576
β-Pinene	1220	0.122
α-Terpinene	ND	-
γ-Terpinene	ND	-
Terpinolene	58.5	0.00585
TOTAL	13800	1.38



Deviations from SOP:

None

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): 48.7

"-" Not detected above LOD.











Deviations from SOP:

None



CERTIFICATE OF ANALYSIS (SAMPLE ID: SA37221)

Testing Location:	Customer ID: 2161	Order ID: OR10885	Sample Type: Primary
Arkansas	River Valley Relief Cultivation	Lot Number:	Matrix: Flower
232 S. Broadview St.	5601 Old Greenwood Rd Suite C	M00065C13138629183	Mass: 18g
Greenbrier, AR 72058	Fort Smith, AR 72903	Production Run:	Date Collected: 02/26/2024
License: ADH 113	License: 00065C	4053H20240103PPC-1	Date Received: 02/26/2024
Cultivar (Strain) or Sample	Date Completed: 02/28/2024		

Analysis Date/Time: 02/27/2024 1858 Analyst: KF

PESTICIDES PROFILE (SOP: SOP-PEST-001)

Method: LC/MS/MS Instrument: Shimadzu LC-8050

<u>Pesticide</u>	<u>Result</u> (µg/g)	<u>LOD</u> (µg/g)	<u>LOQ</u> (µg/g)	<u>Action</u> Level (µg/g)	<u>Pesticide</u>	<u>Result</u> (µg/g)	<u>LOD</u> (µg/g)	<u>LOQ</u> (µg/g)	<u>Action</u> <u>Level</u> (µg/g)	AA
Abamectin (71751-41-2)	-	0.0484	0.387	0.5	Kresoxim-methyl		0.0484	0.387	0.4	
Acephate (30560-19-1)	-	0.0484	0.387	0.4	(143390-89-0)					7 30
Acequinocyl (57960-19-7)	-	0.0484	0.387	2	Malathion (121-75-5)	-	0.0484	0.387	0.2	
Acetamiprid	_	0.0484	0.387	0.2	Metalaxyl (57837-19-1)	-	0.0484	0.387	0.2	Calar Kar
(135410-20-7)					Methiocarb (2032-65-7)	-	0.0484	0.387	0.2	<u>Color Key</u>
Aldicarb (116-06-3)	-	0.0484	0.387	0.4	Methomyl (16752-77-5)	-	0.0484	0.387	0.4	RESULT < AL
Azoxystrobin (131860-33-8)	-	0.0484	0.387	0.2	Methyl parathion (298-0-0)	-	0.0484	0.387	0.2	RESULT > AL
Bifenazate (149877-41-8)	-	0.0484	0.387	0.2	MGK 264 (113-48-4)	-	0.0484	0.387	0.2	"DET" detected less than LOQ
Bifenthrin (82657-04-3)	-	0.0484	0.387	0.2	Myclobutanil	_	0.0484	0.387	0.2	"-" not detected above
Boscalid (188425-85-6)	-	0.0484	0.387	0.4	(88671-89-0)		0.0404	0.207	0.5	LOD
Carbaryl (63-25-2)	-	0.0484	0.387	0.2	Naled (300-76-5)	-	0.0484	0.387	0.5	Permethrins measured as the
Carbofuran (1563-66-2)	-	0.0484	0.387	0.2	Oxamyl (23135-22-0)	-	0.0484	0.387	1	cumulative residue of the <i>cis</i> - and
Chlorantraniliprole (800008-45-7)	-	0.0484	0.387	0.2	Paclobutrazol (76738-62-0)	-	0.0484	0.387	0.4	trans- permethrin isomers.
Chlorfenapyr		0.0484	0.387	1	Permethrins (52645-53-1)	-	0.0484	0.387	0.2	Pyrethrins measured as the cumulative residue of the
(122453-73-0)	-		0.307	1	Phosmet (732-11-6)	-	0.0484	0.387	0.2	pyrethrin I, cinerin I, and jasmolin
Chlorpyrifos (2921-88-2)	-	0.0484	0.387	0.2	Piperonyl butoxide	-	0.0484	0.387	2	I isomers.
Clofentezine (74115-24-5)	-	0.0484	0.387	0.2	(51-03-6) Prallethrins (2331-36-9)		0.0484	0.387	0.2	Action levels are referenced from
Cyfluthrin (68359-37-5)	-	0.0484	0.387	1	· · · · · ·	-	0.0464	0.307	0.2	the
Cypermethrin (52315-07-8)	-	0.0484	0.387	1	Propiconazole (60207-90-1))	-	0.0484	0.387	0.4	State of Arkansas MMJ testing guidelines.
Daminozide (1596-84-5)	-	0.0484	0.387	1	Propoxur (114-26-1)	-	0.0484	0.387	0.2	A value of "-" for the action level
DDVP (62-73-7)	-	0.0484	0.387	0.1	Pyrethrins (8003-34-7)	-	0.0484	0.387	1	means that analyte is not
Diazinon (333-41-5)	-	0.0484	0.387	0.2	Pyridaben (96489-71-3)	-	0.0484	0.387	0.2	currently regulated by the regulations referenced above.
Dimethoate (60-51-5)	-	0.0484	0.387	0.2	Spinosad (168316-95-8)	-	0.0484	0.387	0.2	regulations referenced above.
Ethoprophos (13194-48-4)	-	0.0484	0.387	0.2	Spiromesifen (283594-90-1)	-	0.0484	0.387	0.2	Disclaimer: This information is
Etofenprox (80844-07-1)	-	0.0484	0.387	0.4	Spirotetramat					provided as a service and makes no claims of efficacy and/or safety
Etoxazole (153233-91-1)	-	0.0484	0.387	0.2	(203313-25-1)	-	0.0484	0.387	0.2	of this product. Results are
Fenoxycarb (72490-01-8)	-	0.0484	0.387	0.2	Spiroxamine		0.0484	0.387	0.4	applicable only for the sample(s) analyzed and for the specific
(E)-Fenpyroximate (134098-61-6)	-	0.0484	0.387	0.4	(118134-30-8) Tebuconazole	-				analysis conducted. This report is for informational purposes only
Fipronil (120068-37-3)	-	0.0484	0.387	0.4	(80443-41-0)	-	0.0484	0.387	0.4	and should not be used to
Flonicamid (158062-67-0)	-	0.0484	0.387	1	Thiacloprid	_	0.0484	0.387	0.2	diagnose, treat, or prevent any medical-related symptoms. The
Fludioxinil (131341-86-1)	-	0.0484	0.387	0.4	(111988-49-9)					statements and results herein have
Hexythiazox (78587-05-0)	-	0.0484	0.387	1	Thiamethoxam (153719-23-4)	-	0.0484	0.387	0.2	not been approved and/or
Imazalil (35554-44-0)	-	0.0484	0.387	0.2	Trifloxystrobin					endorsed by the FDA.
Imidacloprid (138261-41-3)	-	0.0484	0.387	0.4	(141517-21-7)	-	0.0484	0.387	0.2	

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	<u>Synonym(s)</u>	Pesticide	Synonym(s)	Pesticide	<u>Synonym(s)</u>
Cyfluthrin	Baythroid	Myclobutanil	Systhane	Propiconazole	Tilt
DDVP	Dichlorvos	Naled	Dibrom	Propoxur	Baygon
Ethoprophos	Prophos	Phosmet	Imidan		



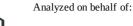
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Greenbrier, AR 72058	Fort Smith, AR 72903	Production Run:	Date Collected: 02/26/2024
License: ADH 113	License: 00065C	4053H20240103PPC-1	Date Received: 02/26/2024
Cultivar (Strain) or Sample I	Date Completed: 02/28/2024		

HEAVY METAL PROFILE (SOP: SOP-ICP-200.6)

Analysis Date/Time: 02/27/2024 1938 (ICP/OES) Analysis Date/Time: - (DMA) Analyst: KF			Method: ICP/MS Instrument: Agilent 7500ce		Deviations from SOP: Oce None
<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)	-	58.4	92.4	200	
Cadmium (Cd)	-	58.4	92.4	200	A A A A A A A A A A A A A A A A A A A
Lead (Pb)	-	58.4	92.4	500	
Mercury (Hg)	-	58.4	92.4	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

<u>Color Key</u>



"DET" detected less than LOQ

"-" not detected above LOD

Action levels for heavy metals are referenced from the State of Arkansas MMJ testing guidelines.

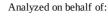
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License: ADA 05_H273	License: 00065C	4053H20240103PPC-1	Date Received: 02/26/2024
Cultivar (Strain) or Sample D	Date Completed: 02/28/2024		

MICROBIOLOGICAL PROFILE (SOP: SOP-Micro-001)

Analysis Date/Time: 02/27/20 Analyst: PW		d: Hardy Diagnostics CompactDryment: Thermo Incubator	Deviations from SOP: None
Bacteria/Microbe	<u>Result</u> (CFU/g)	<u>Action Level</u> (CFU/g)	
Aerobic Plate Count	NT	-	
Coliforms, Total	Absent	1	a and a second
Escherichia Coli (E. Coli)	Absent	100	A CALLER AND A CAL
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





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Action levels for microbiology 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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