







## SUMMARY OF ANALYSIS (SAMPLE ID: SA35145)

<b>Testing Location:</b> Arkansas	<b>Customer ID:</b> 2161 River Valley Relief Cultivation	Order ID: OR10438 Lot Number:	Sample Type: Primary Matrix: Flower
232 S. Broadview St.	5601 Old Greenwood Rd Suite C	M00065C13135849596	Mass: 8g
Greenbrier, AR 72058	Fort Smith, AR 72903	Production Run:	Date Collected: 05/08/2023
License: ADH 113	License: 00065C	3031H20230328GP-1	Date Received: 05/08/2023
Cultivar (Strain) or Sample De	Date Completed: 05/11/2023		

\*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
13.0	0.470 @ 24.5°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>	<u>mg</u> /g
THCA	29.7	297
CBGA	1.27	12.7
Δ9-ΤΗϹ	0.542	5.42
TOTAL CBD	-	-
TOTAL THC	26.6	266
TOTAL CANNABINOIDS	31.7	317
<u>Terpenes (Top 5)</u>	<u>(%)</u>	µg∕g
<u>Terpenes (Top 5)</u> d-Limonene	<u>(%)</u> 0.477	<b>µg/g</b> 4770
d-Limonene	0.477	4770
d-Limonene α-Pinene	0.477 0.179	4770 1790
d-Limonene α-Pinene β-Caryophyllene	0.477 0.179 0.146	4770 1790 1460

<b>Contaminants</b>	PASS/FAIL
Heavy Metals:	PASS
Microbiology:	PASS
Pesticides:	PASS





Scan the QR code to verify results.

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# **CERTIFICATE OF ANALYSIS (SAMPLE ID: SA35145)**

Testing Location:	Customer ID: 2161	Order ID: OR10438	Sample Type: Primary
Arkansas	River Valley Relief Cultivation	Lot Number:	Matrix: Flower
232 S. Broadview St.	5601 Old Greenwood Rd Suite C	M00065C13135849596	Mass: 8g
Greenbrier, AR 72058	Fort Smith, AR 72903	Production Run:	Date Collected: 05/08/2023
License: ADH 113	License: 00065C	3031H20230328GP-1	Date Received: 05/08/2023
Cultivar (Strain) or Sample D	Date Completed: 05/11/2023		

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

Analysis Date/Time: 05/10/2023 1426 Analyst: PW Method: HPLC/DAD Instrument: Agilent 1100

<u>Cannabinoid</u>	<u>Result</u> (%)	<u>Result</u> (mg/g)	<u>LOD</u> (mg/g)	LOQ (mg/g)	<u>Result</u> (mg/ mL)	<u>Per</u> Serving (mg)	<u>Per</u> g <u>Unit</u> (mg)
CBC	ND	ND	0.187	0.437	-	-	-
CBCA	ND	ND	0.581	1.36	-	-	-
CBD	ND	ND	1.32	3.08	-	-	-
CBDA	ND	ND	0.486	1.13	-	-	-
CBDV	ND	ND	0.212	0.494	-	-	-
CBDVA	ND	ND	0.565	1.32	-	-	-
CBG	<loq< td=""><td><loq< td=""><td>0.857</td><td>2.00</td><td>-</td><td>-</td><td>-</td></loq<></td></loq<>	<loq< td=""><td>0.857</td><td>2.00</td><td>-</td><td>-</td><td>-</td></loq<>	0.857	2.00	-	-	-
CBGA	1.27	12.7	0.614	1.43	-	12.7	12.7
CBL	ND	ND	0.990	2.31	-	-	-
CBN	ND	ND	0.455	1.06	-	-	-
CBNA	ND	ND	0.491	1.14	-	-	-
Δ9-ΤΗC	0.542	5.42	0.545	1.27	-	5.42	5.42
$\Delta 8$ -THC	ND	ND	0.850	1.98	-	-	-
THCA	29.7	297	0.295	0.691	-	297	297
THCV	ND	ND	0.709	1.65	-	-	-
THCVA	0.204	2.04	0.226	0.527	-	2.04	2.04
TOTAL	31.7	317				317	317
TOTAL CBC	-	-			-	-	-
TOTAL CBD	-	-			-	-	-
TOTAL CBDV	-	-			-	-	-
TOTAL CBG	1.11	11.1			-	11.1	11.1
TOTAL CBN	-	-			-	-	-
TOTAL THC	26.6	266			-	266	266
TOTAL THCV	0.177	1.77			-	1.77	1.77

\* 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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Moisture Content (%): 13 Water Activity (aw): 0.47 @ 24.46°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) +  $\Delta$ 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. atory Dire

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# **CERTIFICATE OF ANALYSIS (SAMPLE ID: SA35145)**

Testing Location:	Customer ID: 2161	Order ID: OR10438	Sar		
Arkansas	River Valley Relief Cultivation	Lot Number:	Ma		
232 S. Broadview St.	5601 Old Greenwood Rd Suite C	M00065C13135849596	Ma		
Greenbrier, AR 72058	Fort Smith, AR 72903	Production Run:	Da		
License: ADH 113	License: 00065C	3031H20230328GP-1	Da		
Cultivar (Strain) or Sample Description: Grape Pie #2					

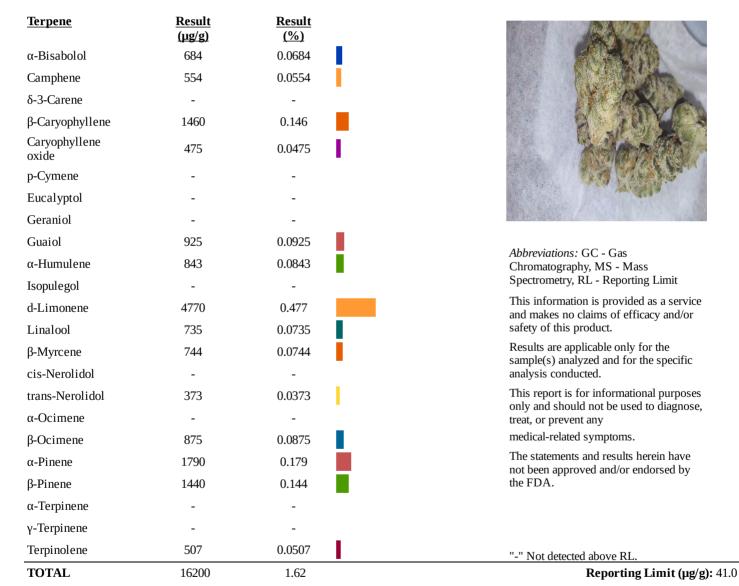
Sample Type: Primary Matrix: Flower Mass: 8g Date Collected: 05/08/2023 Date Received: 05/08/2023 Date Completed: 05/11/2023

Analysis Date/Time:05/11/2023 0715 Analyst: KF

# TERPENOID PROFILE

Method: GC/MS Instrument: Agilent 7890/5975

#### **Deviations from SOP:** None















**Deviations from SOP:** 

None

# **CERTIFICATE OF ANALYSIS (SAMPLE ID: SA35145)**

Testing Location:	Customer ID: 2161	Order ID: OR10438	Sample Type: Primary
Arkansas	River Valley Relief Cultivation	Lot Number:	Matrix: Flower
232 S. Broadview St.	5601 Old Greenwood Rd Suite C	M00065C13135849596	Mass: 8g
Greenbrier, AR 72058	Fort Smith, AR 72903	Production Run:	Date Collected: 05/08/2023
License: ADH 113	License: 00065C	3031H20230328GP-1	Date Received: 05/08/2023
Cultivar (Strain) or Sample	Date Completed: 05/11/2023		

## Analysis Date/Time: 05/10/2023 1613 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)	
Abamectin (71751-41-2)	-	0.0410	0.328	0.5	Kresoxim-methyl	_	0.0410	0.328	0.4	A STORE
Acephate (30560-19-1)	-	0.0410	0.328	0.4	(143390-89-0)					
Acequinocyl (57960-19-7)	-	0.0410	0.328	2	Malathion (121-75-5)	-	0.0410	0.328	0.2	The second s
Acetamiprid	_	0.0410	0.328	0.2	Metalaxyl (57837-19-1)	-	0.0410	0.328	0.2	Color Key
(135410-20-7)					Methiocarb (2032-65-7)	-	0.0410	0.328	0.2	<u>Color Rey</u>
Aldicarb (116-06-3)	-	0.0410	0.328	0.4	Methomyl (16752-77-5)	-	0.0410	0.328	0.4	<b>RESULT</b> < <b>AL</b>
Azoxystrobin (131860-33-8)	-	0.0410	0.328	0.2	Methyl parathion (298-0-0)	-	0.0410	0.328	0.2	RESULT > AL
Bifenazate (149877-41-8)	-	0.0410	0.328	0.2	MGK 264 (113-48-4)	-	0.0410	0.328	0.2	"DET" detected less than LOQ
Bifenthrin (82657-04-3)	-	0.0410	0.328	0.2	Myclobutanil	_	0.0410	0.328	0.2	"-" not detected above
Boscalid (188425-85-6)	-	0.0410	0.328	0.4	(88671-89-0)		0.0410	0.220	0.5	LOD
Carbaryl (63-25-2)	-	0.0410	0.328	0.2	Naled (300-76-5)	-	0.0410	0.328	0.5	Permethrins measured as the
Carbofuran (1563-66-2)	-	0.0410	0.328	0.2	Oxamyl (23135-22-0)	-	0.0410	0.328	1	cumulative residue of the <i>cis</i> - and
Chlorantraniliprole (800008-45-7)	-	0.0410	0.328	0.2	Paclobutrazol (76738-62-0)	-	0.0410	0.328	0.4	trans- permethrin isomers.
Chlorfenapyr		0.0410	0.328	1	Permethrins (52645-53-1)	-	0.0410	0.328	0.2	Pyrethrins measured as the cumulative residue of the
(122453-73-0)	-				Phosmet (732-11-6)	-	0.0410	0.328	0.2	pyrethrin I, cinerin I, and jasmolin
Chlorpyrifos (2921-88-2)	-	0.0410	0.328	0.2	Piperonyl butoxide	-	0.0410	0.328	2	I isomers.
Clofentezine (74115-24-5)	-	0.0410	0.328	0.2	(51-03-6) Prallethrins (2331-36-9)		0.0410	0.328	0.2	Action levels are referenced from
Cyfluthrin (68359-37-5)	-	0.0410	0.328	1	Propiconazole	-	0.0410	0.320	0.2	the
Cypermethrin (52315-07-8)	-	0.0410	0.328	1	(60207-90-1))	-	0.0410	0.328	0.4	State of Arkansas MMJ testing guidelines.
Daminozide (1596-84-5)	-	0.0410	0.328	1	Propoxur (114-26-1)	-	0.0410	0.328	0.2	A value of "-" for the action level
DDVP (62-73-7)	-	0.0410	0.328	0.1	Pyrethrins (8003-34-7)	-	0.0410	0.328	1	means that analyte is not
Diazinon (333-41-5)	-	0.0410	0.328	0.2	Pyridaben (96489-71-3)	-	0.0410	0.328	0.2	currently regulated by the regulations referenced above.
Dimethoate (60-51-5)	-	0.0410	0.328	0.2	Spinosad (168316-95-8)	-	0.0410	0.328	0.2	legulations referenced above.
Ethoprophos (13194-48-4)	-	0.0410	0.328	0.2	Spiromesifen (283594-90-1)	-	0.0410	0.328	0.2	Disclaimer: This information is
Etofenprox (80844-07-1)	-	0.0410	0.328	0.4	Spirotetramat					provided as a service and makes no claims of efficacy and/or safety
Etoxazole (153233-91-1)	-	0.0410	0.328	0.2	(203313-25-1)	-	0.0410	0.328	0.2	of this product. Results are
Fenoxycarb (72490-01-8)	-	0.0410	0.328	0.2	Spiroxamine		0.0410	0.328	0.4	applicable only for the sample(s) analyzed and for the specific
(E)-Fenpyroximate (134098-61-6)	-	0.0410	0.328	0.4	(118134-30-8) Tebuconazole		0.0410	0.328	0.4	analysis conducted. This report is for informational purposes only
Fipronil (120068-37-3)	-	0.0410	0.328	0.4	(80443-41-0)	-	0.0410	0.320	0.4	and should not be used to
Flonicamid (158062-67-0)	-	0.0410	0.328	1	Thiacloprid	_	0.0410	0.328	0.2	diagnose, treat, or prevent any medical-related symptoms. The
Fludioxinil (131341-86-1)	-	0.0410	0.328	0.4	(111988-49-9)					statements and results herein have
Hexythiazox (78587-05-0)	-	0.0410	0.328	1	Thiamethoxam (153719-23-4)	-	0.0410	0.328	0.2	not been approved and/or
Imazalil (35554-44-0)	-	0.0410	0.328	0.2	Trifloxystrobin		0.0446	0.000		endorsed by the FDA.
Imidacloprid (138261-41-3)	-	0.0410	0.328	0.4	(141517-21-7)	-	0.0410	0.328	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 [Variable]	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: 05/08/2023
License: ADH 113	License: 00065C	3031H20230328GP-1	Date Received: 05/08/2023
Cultivar (Strain) or Sample D	<b>Date Completed:</b> 05/11/2023		

## HEAVY METAL PROFILE (SOP: SOP-ICP-200.7)

Analysis Date/T Analysis Date/T Analyst: KF	ï <b>me:</b> 05/10/2023 1 ï <b>me:</b> - (DMA)	400 (ICP/OES)		t <b>hod:</b> ICP/OES rument: Agilent 720	-ES 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)	-	57.5	91.0	200	
Cadmium (Cd)	-	57.5	91.0	200	A A A A A A A A A A A A A A A A A A A
Lead (Pb)	-	57.5	91.0	500	
Mercury (Hg)		57.5	91.0	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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Arkansas	River Valley Relief Cultivation	Lot Number:	Matrix: Flower
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Greenbrier, AR 72058	Fort Smith, AR 72903	Production Run:	Date Collected: 05/08/2023
License: ADA 05_H273	License: 00065C	3031H20230328GP-1	Date Received: 05/08/2023
Cultivar (Strain) or Sample D	Date Completed: 05/11/2023		

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

Analysis Date/Time: 2023051 Analyst: PW		lardy Diagnostics Compac nt: Thermo Incubator	tDry 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 A A A A A A A A A A A A A A A A A A
Escherichia Coli (E. Coli)	Absent	100	
Mold/Yeast	NT	-	
Pseudomonas aeruginosa	NT	1	No. And
Salmonella spp.	NT	-	
Staphylococcus aureus	NT	-	And the second se

*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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