







## SUMMARY OF ANALYSIS (SAMPLE ID: SA35920)

Testing Location:	Customer ID: 2161	<b>Order ID:</b> OR10591	Sample Type: Primary
Arkansas	River Valley Relief Cultivation	Lot Number:	Matrix: Flower
232 S. Broadview St.	5601 Old Greenwood Rd Suite C	M00065C13131638771	Mass: 11Grams
Greenbrier, AR 72058	Fort Smith, AR 72903	Production Run:	Date Collected: 08/28/2023
License: ADH 113	License: 00065C	4039H20230807MAC-2	Date Received: 08/28/2023
Cultivar (Strain) or Sample Des	Date Completed: 08/30/2023		

\*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.

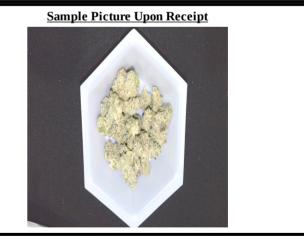
Moisture Content (%)	Water Activity (aw)	PASS/FAIL
11.9	0.497 @ 24.2°C	PASS

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.

Cannabinoids (Top 3)	<u>(%)</u>	<u>mg</u> /g
THCA	26.6	266
CBGA	0.967	9.67
Δ9-ΤΗϹ	0.196	1.96
TOTAL CBD	-	-
TOTAL THC	23.5	235
TOTAL CANNABINOIDS	28.1	281
<u>Terpenes (Top 5)</u>	<u>(%)</u>	<u>µg/g</u>
<u>Terpenes (Top 5)</u> d-Limonene	<u>(%)</u> 0.323	<mark>µg/g</mark> 3230
d-Limonene	0.323	3230
d-Limonene β-Caryophyllene	0.323 0.221	3230 2210
d-Limonene β-Caryophyllene α-Pinene	0.323 0.221 0.105	3230 2210 1050

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





Scan the QR code to verify results.

This information is provided as a service and makes no claims of efficacy and/or safety of this product. Results are applicable only for the sample(s) analyzed and for the specific analysis conducted.

This report is for informational purposes only and should not be used to diagnose, treat, or prevent any medical-related symptoms.

The statements and results herein have not been approved and/or endorsed by the FDA.



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



www.FASTLaboratories.com









Testing Location:	Customer ID: 2161	<b>Order ID:</b> OR10591	Sample Type: Primary
Arkansas	River Valley Relief Cultivation	Lot Number:	Matrix: Flower
232 S. Broadview St.	5601 Old Greenwood Rd Suite C	M00065C13131638771	Mass: 11Grams
Greenbrier, AR 72058	Fort Smith, AR 72903	Production Run:	Date Collected: 08/28/2023
License: ADH 113	License: 00065C	4039H20230807MAC-2	Date Received: 08/28/2023
Cultivar (Strain) or Sample Desc		Date Completed: 08/30/202	

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

Analysis Date/Time: 08/29/2023 1839 Analyst: PW

Method: HPLC/DAD Instrument: Agilent 1100

<u>Cannabinoid</u>	<u>Result</u> ( <u>%)</u>	<u>Result</u> (mg/g)	LOD (mg/g)	LOQ (mg/g)	<u>Result</u> (mg/ mL)	<u>Per</u> <u>Serving</u> (mg)	<u>Per</u> g <u>Unit</u> ( <u>mg)</u>
CBC	ND	ND	0.0409	0.0955	-	-	-
CBCA	ND	ND	0.127	0.296	-	-	-
CBD	ND	ND	0.289	0.674	-	-	-
CBDA	ND	ND	0.106	0.248	-	-	-
CBDV	ND	ND	0.0463	0.108	-	-	-
CBDVA	ND	ND	0.123	0.288	-	-	-
CBG	0.133	1.33	0.187	0.437	-	1.17	1.17
CBGA	0.967	9.67	0.266	0.313	-	8.52	8.52
CBL	ND	ND	0.216	0.505	-	-	-
CBN	ND	ND	0.0994	0.232	-	-	-
CBNA	ND	ND	0.107	0.250	-	-	-
Δ9-ΤΗC	0.196	1.96	0.119	0.278	-	1.73	1.73
$\Delta 8$ -THC	ND	ND	0.186	0.434	-	-	-
THCA	26.6	266	0.0646	0.151	-	234	234
THCV	ND	ND	0.155	0.361	-	-	-
THCVA	0.154	1.54	0.0495	0.115	-	1.36	1.36
TOTAL	28.1	281			-	247	247
TOTAL CBC	-	-			-	-	-
TOTAL CBD	-	-			-	-	-
TOTAL CBDV	-	-			-	-	-
TOTAL CBG	0.982	9.82			-	8.66	8.66
TOTAL CBN	-	-			-	-	-
TOTAL THC	23.5	235			-	207	207
TOTAL THCV	0.134	1.34			-	1.18	1.18

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

This information is provided as a service and makes no claims of efficacy and/or safety of this product. Results are applicable only for the sample(s) analyzed and for the specific analysis conducted. This report is for informational purposes only and should not be used to diagnose, treat, or prevent any medical-related symptoms.

The statements and results herein have not been approved and/or endorsed by the FDA.

23 23 023

Moisture Content (%): 11.9 Water Activity (aw): 0.497 @ 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 =  $(CBCA \times 0.877) + CBC$ Total CBD = (CBDA x 0.877) + CBD Total CBDV = (CBDVA x 0.867) + CBDV Total CBG =  $(CBGA \times 0.878) + CBG$ Total CBN = (CBNA x 0.876) + CBN Total THC = (THCA x 0.877) +  $\Delta$ 9-THC Total THCV =  $(THCVA \times 0.867) + THCV$ 

Percentage results are reported by mass.

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













**Testing Location:** Customer ID: 2161 Arkansas **River Valley Relief Cultivation** 232 S. Broadview St. 5601 Old Greenwood Rd Suite C Greenbrier, AR 72058 Fort Smith, AR 72903 License: ADH 113 License: 00065C Cultivar (Strain) or Sample Description: MAC 1

Order ID: OR10591 Lot Number: M00065C13131638771 **Production Run:** 4039H20230807MAC-2

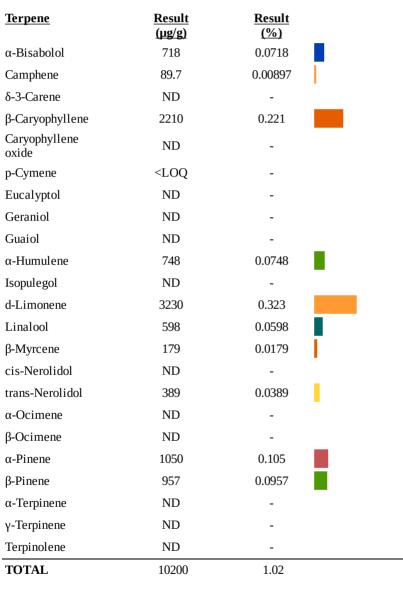
Sample Type: Primary Matrix: Flower Mass: 11Grams Date Collected: 08/28/2023 Date Received: 08/28/2023 Date Completed: 08/30/2023

Analysis Date/Time:08/29/2023 2227 Analyst: KF

# **TERPENOID PROFILE**

Method: GC/MS Instrument: Agilent 7890/5975

#### **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

This information is provided as a service and makes no claims of efficacy and/or safety of this product.

Results are applicable only for the sample(s) analyzed and for the specific analysis conducted.

This report is for informational purposes only and should not be used to diagnose, treat, or prevent any

medical-related symptoms.

The statements and results herein have not been approved and/or endorsed by the FDA.

#### Reporting Limit (µg/g): 74.8

"-" Not detected above LOD.











**Deviations from SOP:** 



## **CERTIFICATE OF ANALYSIS (SAMPLE ID: SA35920)**

Testing Location:	Customer ID: 2161	Order ID: OR10591	Sample Type: Primary
Arkansas	River Valley Relief Cultivation	Lot Number:	Matrix: Flower
232 S. Broadview St.	5601 Old Greenwood Rd Suite C	M00065C13131638771	Mass: 11Grams
Greenbrier, AR 72058	Fort Smith, AR 72903	Production Run:	Date Collected: 08/28/2023
License: ADH 113	License: 00065C	4039H20230807MAC-2	Date Received: 08/28/2023
Cultivar (Strain) or Sample De	Date Completed: 08/30/2023		

## Analysis Date/Time: 08/29/2023 1908 Analyst. KE

### **PESTICIDES PROFILE (SOP: SOP-PEST-001)**

Method: LC/MS/MS ment: Shimadzu I C-8050

,,,			-			-			30110	
Analyst: KF					Instrument: Shimadzu LC-8050			None		
<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> Level (µg/g)	
Abamectin (71751-41-2)	-	0.0448	0.358	0.5	Kresoxim-methyl	_	0.0448	0.358	0.4	
Acephate (30560-19-1)	-	0.0448	0.358	0.4	(143390-89-0)			0.050		and the second
Acequinocyl (57960-19-7)	-	0.0448	0.358	2	Malathion (121-75-5)	-	0.0448	0.358	0.2	
Acetamiprid (135410-20-7)	-	0.0448	0.358	0.2	Metalaxyl (57837-19-1) Methiocarb (2032-65-7)	-	0.0448 0.0448	0.358 0.358	0.2 0.2	<u>Color Key</u>
Aldicarb (116-06-3)	-	0.0448	0.358	0.4	Methomyl (16752-77-5)	-	0.0448	0.358	0.4	<b>RESULT &lt; AL</b>
Azoxystrobin (131860-33-8)	-	0.0448	0.358	0.2	Methyl parathion (298-0-0)	-	0.0448	0.358	0.2	RESULT > AL
Bifenazate (149877-41-8)	-	0.0448	0.358	0.2	MGK 264 (113-48-4)	-	0.0448	0.358	0.2	"DET" detected less than LOQ
Bifenthrin (82657-04-3)	-	0.0448	0.358	0.2	Myclobutanil		0.0448	0.358	0.2	"-" not detected above
Boscalid (188425-85-6)	-	0.0448	0.358	0.4	(88671-89-0)	-	0.0440	0.330	0.2	LOD
Carbaryl (63-25-2)	-	0.0448	0.358	0.2	Naled (300-76-5)	-	0.0448	0.358	0.5	
Carbofuran (1563-66-2)	-	0.0448	0.358	0.2	Oxamyl (23135-22-0)	-	0.0448	0.358	1	Permethrins measured as the cumulative residue of the <i>cis</i> - and
Chlorantraniliprole (800008-45-7)	-	0.0448	0.358	0.2	Paclobutrazol (76738-62-0)	-	0.0448	0.358	0.4	<i>trans</i> - permethrin isomers.
Chlorfenapyr		0.0448	0.358	1	Permethrins (52645-53-1)	-	0.0448	0.358	0.2	Pyrethrins measured as the cumulative residue of the
(122453-73-0)	-				Phosmet (732-11-6)	-	0.0448	0.358	0.2	pyrethrin I, cinerin I, and jasmolin
Chlorpyrifos (2921-88-2)	-	0.0448	0.358	0.2	Piperonyl butoxide	-	0.0448	0.358	2	I isomers.
Clofentezine (74115-24-5)	-	0.0448	0.358	0.2	(51-03-6) Prallethrins (2331-36-9)		0.0448	0.358	0.2	Action levels are referenced from
Cyfluthrin (68359-37-5)	-	0.0448	0.358	1	Propiconazole	-				the
Cypermethrin (52315-07-8)	-	0.0448	0.358	1	(60207-90-1))	-	0.0448	0.358	0.4	State of Arkansas MMJ testing guidelines.
Daminozide (1596-84-5)	-	0.0448	0.358	1	Propoxur (114-26-1)	-	0.0448	0.358	0.2	A value of "-" for the action level
DDVP (62-73-7)	-	0.0448	0.358	0.1	Pyrethrins (8003-34-7)	-	0.0448	0.358	1	means that analyte is not
Diazinon (333-41-5)	-	0.0448	0.358	0.2	Pyridaben (96489-71-3)	-	0.0448	0.358	0.2	currently regulated by the regulations referenced above.
Dimethoate (60-51-5)	-	0.0448	0.358	0.2	Spinosad (168316-95-8)	-	0.0448	0.358	0.2	legulations referenced above.
Ethoprophos (13194-48-4)	-	0.0448	0.358	0.2	Spiromesifen (283594-90-1)	-	0.0448	0.358	0.2	Disclaimer: This information is
Etofenprox (80844-07-1)	-	0.0448	0.358	0.4	Spirotetramat					provided as a service and makes no claims of efficacy and/or safety
Etoxazole (153233-91-1)	-	0.0448	0.358	0.2	(203313-25-1)	-	0.0448	0.358	0.2	of this product. Results are
Fenoxycarb (72490-01-8)	-	0.0448	0.358	0.2	Spiroxamine		0.0448	0.358	0.4	applicable only for the sample(s) analyzed and for the specific
(E)-Fenpyroximate (134098-61-6)	-	0.0448	0.358	0.4	(118134-30-8) Tebuconazole		0.0448	0.358	0.4	analysis conducted. This report is for informational purposes only
Fipronil (120068-37-3)	-	0.0448	0.358	0.4	(80443-41-0)	-	0.0440	0.330	0.4	and should not be used to
Flonicamid (158062-67-0)	-	0.0448	0.358	1	Thiacloprid (111988-49-9)	-	0.0448	0.358	0.2	diagnose, treat, or prevent any medical-related symptoms. The
Fludioxinil (131341-86-1)	-	0.0448	0.358	0.4	(111988-49-9) Thiamethoxam					statements and results herein have
Hexythiazox (78587-05-0)	-	0.0448	0.358	1	(153719-23-4)	-	0.0448	0.358	0.2	not been approved and/or
Imazalil (35554-44-0)	-	0.0448	0.358	0.2	Trifloxystrobin		0.0440	0.259	0.2	endorsed by the FDA.
Imidacloprid (138261-41-3)	-	0.0448	0.358	0.4	(141517-21-7)	-	0.0448	0.358	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** Synonym(s) **Pesticide** Synonym(s) **Pesticide** Cyfluthrin Myclobutanil Baythroid Systhane Propiconazole DDVP Dichlorvos Naled Dibrom Propoxur Prophos Phosmet Imidan Ethoprophos



**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



www.FASTLaboratories.com

Synonym(s)

Tilt

Baygon









Testing Location:	Customer ID: 2161	Order ID: OR10591	Sample Type: Primary
Arkansas	River Valley Relief Cultivation	Lot Number:	Matrix: Flower
232 S. Broadview St.	5601 Old Greenwood Rd Suite C	M00065C13131638771	Mass: 11Grams
Greenbrier, AR 72058	Fort Smith, AR 72903	Production Run:	Date Collected: 08/28/2023
License: ADH 113	License: 00065C	4039H20230807MAC-2	Date Received: 08/28/2023
Cultivar (Strain) or Sample D	Date Completed: 08/30/2023		

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

Analysis Date/Time: 08/29/2023 1950 (ICP/OES) Analysis Date/Time: - (DMA) Analyst: KF				<b>hod:</b> ICP/MS rument: Agilent 7500c	<b>Deviations from SOP:</b> e None
<u>Heavy Metal</u>	<u>Result</u> (µg/kg)	<u>LOD</u> (µg/kg)	<u>LOQ</u> <u>(µg/kg)</u>	<u>Action Level</u> (µg/kg)	
Arsenic (As)	-	58.0	91.8	200	
Cadmium (Cd)	-	58.0	91.8	200	A La
Lead (Pb)	-	58.0	91.8	500	STAL AL
Mercury (Hg)		58.0	91.8	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





"DET" detected less than LOQ

"-" not detected above LOD

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

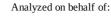
*Disclaimer:* This information is provided as a service and makes no claims of efficacy and/or safety of this product. Results are applicable only for the sample(s) analyzed and for the specific analysis conducted. This report is for informational purposes only and should not be used to diagnose, treat, or prevent any medical-related symptoms. The statements and results herein have not been approved and/or endorsed by the FDA.













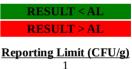
Testing Location:	Customer ID: 2161	Sample ID: SA35920	Sample Type: Primary
Arkansas	River Valley Relief Cultivation	Lot Number:	Matrix: Flower
232 S. Broadview St.	5601 Old Greenwood Rd Suite C	M00065C13131638771	Mass: 11Grams
Greenbrier, AR 72058	Fort Smith, AR 72903	Production Run:	Date Collected: 08/28/2023
License: ADA 05_H273	License: 00065C	4039H20230807MAC-2	Date Received: 08/28/2023
Cultivar (Strain) or Sample	Date Completed: 08/30/2023		

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

Analysis Date/Time: 08/30/20 Analyst: PW		: Hardy Diagnostics CompactDry nent: Thermo Incubator	<b>Deviations from SOP:</b> None
Bacteria/Microbe	<u>Result</u> (CFU/g)	<u>Action Level</u> (CFU/g)	
Aerobic Plate Count	NT	-	
Coliforms, Total	Absent	1	A AN
Escherichia Coli (E. Coli)	Absent	100	STAL STAL
Mold/Yeast	NT	-	CARLIN CONTRACT
Pseudomonas aeruginosa	NT	-	States and the second sec
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





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.

*Disclaimer:* This information is provided as a service and makes no claims of efficacy and/or safety of this product. Results are applicable only for the sample(s) analyzed and for the specific analysis conducted. This report is for informational purposes only and should not be used to diagnose, treat, or prevent any medical-related symptoms. The statements and results herein have not been approved and/or endorsed by the FDA.



