







## SUMMARY OF ANALYSIS (SAMPLE ID: SA35918)

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	M00065C13132608309	Mass: 14Grams
Greenbrier, AR 72058	Fort Smith, AR 72903	Production Run:	Date Collected: 08/28/2023
License: ADH 113	License: 00065C	4039H20230807GHC-2	Date Received: 08/28/2023
Cultivar (Strain) or Sample De	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
12.9	0.524 @ 24.3℃	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/g</u>
THCA	23.6	236
CBGA	0.641	6.41
$\Delta$ 9-THC	0.387	3.87
TOTAL CBD	-	-
TOTAL THC	21.0	210
TOTAL CANNABINOIDS	24.7	247
<u>Terpenes (Top 5)</u>	<u>(%)</u>	<u>µg/g</u>
<u>Terpenes (Top 5)</u> β-Myrcene	<u>(%)</u> 0.214	<b>µg/g</b> 2140
β-Myrcene	0.214	2140
β-Myrcene β-Caryophyllene	0.214 0.193	2140 1930
β-Myrcene β-Caryophyllene Linalool	0.214 0.193 0.107	2140 1930 1070

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





Scan the QR code to verify results.

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REPORT OF LABORATORY ANALYSIS

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# **CERTIFICATE OF ANALYSIS (SAMPLE ID: SA35918)**

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	M00065C13132608309	Mass: 14Grams
Greenbrier, AR 72058	Fort Smith, AR 72903	Production Run:	Date Collected: 08/28/2023
License: ADH 113	License: 00065C	4039H20230807GHC-2	Date Received: 08/28/2023
Cultivar (Strain) or Sample I	Description: Grape HI-CHEW		Date Completed: 08/30/2023

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

Analysis Date/Time: 08/29/2023 1813 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/ <u>mL)</u>	<u>Per</u> Serving (mg)	<u>Per</u> g <u>Unit</u> ( <u>mg)</u>
CBC	ND	ND	0.0418	0.0976	-	-	-
CBCA	ND	ND	0.130	0.303	-	-	-
CBD	ND	ND	0.295	0.689	-	-	-
CBDA	ND	ND	0.109	0.253	-	-	-
CBDV	ND	ND	0.0473	0.110	-	-	-
CBDVA	ND	ND	0.126	0.295	-	-	-
CBG	ND	ND	0.191	0.447	-	-	-
CBGA	0.641	6.41	0.271	0.320	-	5.58	5.58
CBL	ND	ND	0.221	0.517	-	-	-
CBN	ND	ND	0.102	0.237	-	-	-
CBNA	ND	ND	0.110	0.256	-	-	-
Δ9-ΤΗC	0.387	3.87	0.122	0.284	-	3.37	3.37
$\Delta 8$ -THC	ND	ND	0.190	0.444	-	-	-
THCA	23.6	236	0.0660	0.154	-	205	205
THCV	ND	ND	0.158	0.369	-	-	-
THCVA	0.115	1.15	0.0506	0.118	-	1.00	1.00
TOTAL	24.7	247				215	215
TOTAL CBC	-	-			-	-	-
TOTAL CBD	-	-			-	-	-
TOTAL CBDV	-	-			-	-	-
TOTAL CBG	0.562	5.62			-	4.90	4.90
TOTAL CBN	-	-			-	-	-
TOTAL THC	21.0	210			-	183	183
TOTAL THCV	0.0997	0.997			-	0.868	0.868

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 (%): 12.9 Water Activity (aw): 0.524 @ 24.3°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.











Analyzed on behalf of:



# **CERTIFICATE OF ANALYSIS (SAMPLE ID: SA35918)**

Г	Cesting Location:	Customer ID: 2161	<b>Order ID:</b> OR10591	Sample		
P	Arkansas	River Valley Relief Cultivation	Lot Number:	Matrix:		
2	32 S. Broadview St.	5601 Old Greenwood Rd Suite C	M00065C13132608309	<b>Mass:</b> 14		
C	Greenbrier, AR 72058	Fort Smith, AR 72903	Production Run:	Date Co		
L	License: ADH 113	License: 00065C	4039H20230807GHC-2	Date Re		
C	Cultivar (Strain) or Sample Description: Grape HI-CHEW					

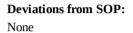
e Type: Primary **k:** Flower 14Grams ollected: 08/28/2023 eceived: 08/28/2023 ompleted: 08/30/2023

Analysis Date/Time:08/29/2023 2145 Analyst: KF

Analyst: KF		1115	<b>rument:</b> Agnen
<u>Terpene</u>	<u>Result</u> (µg/g)	<u>Result</u> (%)	
α-Bisabolol	245	0.0245	
Camphene	ND	-	
δ-3-Carene	ND	-	
β-Caryophyllene	1930	0.193	
Caryophyllene oxide	ND	-	
p-Cymene	ND	-	
Eucalyptol	ND	-	
Geraniol	ND	-	
Guaiol	489	0.0489	
α-Humulene	611	0.0611	
Isopulegol	ND	-	
d-Limonene	91.7	0.00917	
Linalool	1070	0.107	
β-Myrcene	2140	0.214	
cis-Nerolidol	ND	-	
trans-Nerolidol	245	0.0245	
α-Ocimene	ND	-	
β-Ocimene	ND	-	
α-Pinene	<loq< td=""><td>-</td><td></td></loq<>	-	
β-Pinene	275	0.0275	
α-Terpinene	ND	-	
γ-Terpinene	ND	-	
Terpinolene	ND	-	
TOTAL	7090	0.709	

#### **TERPENOID PROFILE**

Method: GC/MS Instrument: Agilent 7890/5975





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): 76.4

"-" Not detected above LOD.











**Deviations from SOP:** 

None



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Greenbrier, AR 72058	Fort Smith, AR 72903	Production Run:	Date Collected: 08/28/2023
License: ADH 113	License: 00065C	4039H20230807GHC-2	Date Received: 08/28/2023
Cultivar (Strain) or Sample D	Date Completed: 08/30/2023		

## Analysis Date/Time: 08/29/2023 1838 Analyst: KF

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

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

Analyst. Iti					inst unent. Shimadzu EC-0050			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)	-	0.0457	0.366	0.5	Kresoxim-methyl	_	0.0457	0.366	0.4	
Acephate (30560-19-1)	-	0.0457	0.366	0.4	(143390-89-0)					and the second
Acequinocyl (57960-19-7)	-	0.0457	0.366	2	Malathion (121-75-5)	-	0.0457	0.366	0.2	Survey .
Acetamiprid (135410-20-7)	-	0.0457	0.366	0.2	Metalaxyl (57837-19-1) Methiocarb (2032-65-7)		0.0457 0.0457	0.366 0.366	0.2 0.2	<u>Color Key</u>
Aldicarb (116-06-3)	-	0.0457	0.366	0.4	Methomyl (16752-77-5)	-	0.0457	0.366	0.4	<b>RESULT</b> < AL
Azoxystrobin (131860-33-8)	-	0.0457	0.366	0.2	Methyl parathion (298-0-0)	-	0.0457	0.366	0.2	RESULT > AL
Bifenazate (149877-41-8)	-	0.0457	0.366	0.2	MGK 264 (113-48-4)	-	0.0457	0.366	0.2	"DET" detected less than LOQ
Bifenthrin (82657-04-3)	-	0.0457	0.366	0.2	Myclobutanil		0.0457	0.366	0.2	"-" not detected above
Boscalid (188425-85-6)	-	0.0457	0.366	0.4	(88671-89-0)		0.0457	0.300	0.2	LOD
Carbaryl (63-25-2)	-	0.0457	0.366	0.2	Naled (300-76-5)	-	0.0457	0.366	0.5	
Carbofuran (1563-66-2)	-	0.0457	0.366	0.2	Oxamyl (23135-22-0)	-	0.0457	0.366	1	Permethrins measured as the cumulative residue of the <i>cis</i> - and
Chlorantraniliprole (800008-45-7)	-	0.0457	0.366	0.2	Paclobutrazol (76738-62-0)	-	0.0457	0.366	0.4	trans- permethrin isomers.
Chlorfenapyr		0.0457	0.366	1	Permethrins (52645-53-1)	-	0.0457	0.366	0.2	Pyrethrins measured as the cumulative residue of the
(122453-73-0)	-	0.0457	0.366	1	Phosmet (732-11-6)	-	0.0457	0.366	0.2	pyrethrin I, cinerin I, and jasmolin
Chlorpyrifos (2921-88-2)	-	0.0457	0.366	0.2	Piperonyl butoxide		0.0457	0.366	2	I isomers.
Clofentezine (74115-24-5)	-	0.0457	0.366	0.2	(51-03-6) Prallethrins (2331-36-9)		0.0457	0.200	0.2	Action levels are referenced from
Cyfluthrin (68359-37-5)	-	0.0457	0.366	1		-	0.0457	0.366	0.2	the
Cypermethrin (52315-07-8)	-	0.0457	0.366	1	Propiconazole (60207-90-1))	-	0.0457	0.366	0.4	State of Arkansas MMJ testing guidelines.
Daminozide (1596-84-5)	-	0.0457	0.366	1	Propoxur (114-26-1)	-	0.0457	0.366	0.2	A value of "-" for the action level
DDVP (62-73-7)	-	0.0457	0.366	0.1	Pyrethrins (8003-34-7)	-	0.0457	0.366	1	means that analyte is not
Diazinon (333-41-5)	-	0.0457	0.366	0.2	Pyridaben (96489-71-3)	-	0.0457	0.366	0.2	currently regulated by the regulations referenced above.
Dimethoate (60-51-5)	-	0.0457	0.366	0.2	Spinosad (168316-95-8)	-	0.0457	0.366	0.2	regulations referenced above.
Ethoprophos (13194-48-4)	-	0.0457	0.366	0.2	Spiromesifen (283594-90-1)	-	0.0457	0.366	0.2	Disclaimer: This information is
Etofenprox (80844-07-1)	-	0.0457	0.366	0.4	Spirotetramat					provided as a service and makes no claims of efficacy and/or safety
Etoxazole (153233-91-1)	-	0.0457	0.366	0.2	(203313-25-1)	-	0.0457	0.366	0.2	of this product. Results are
Fenoxycarb (72490-01-8)	-	0.0457	0.366	0.2	Spiroxamine	_	0.0457	0.366	0.4	applicable only for the sample(s) analyzed and for the specific
(E)-Fenpyroximate (134098-61-6)	-	0.0457	0.366	0.4	(118134-30-8) Tebuconazole		0.0457	0.366	0.4	analysis conducted. This report is for informational purposes only
Fipronil (120068-37-3)	-	0.0457	0.366	0.4	(80443-41-0)		0.0457	0.300	0.4	and should not be used to
Flonicamid (158062-67-0)	-	0.0457	0.366	1	Thiacloprid		0.0457	0.366	0.2	diagnose, treat, or prevent any medical-related symptoms. The
Fludioxinil (131341-86-1)	-	0.0457	0.366	0.4	(111988-49-9)					statements and results herein have
Hexythiazox (78587-05-0)	-	0.0457	0.366	1	Thiamethoxam (153719-23-4)	-	0.0457	0.366	0.2	not been approved and/or endorsed by the FDA.
Imazalil (35554-44-0)	-	0.0457	0.366	0.2	Trifloxystrobin		0.0.177	0.200	0.7	enuoisea by the FDA.
Imidacloprid (138261-41-3)	-	0.0457	0.366	0.4	(141517-21-7)		0.0457	0.366	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



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Synonym(s)

Tilt Baygon

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Cultivar (Strain) or Sample I	Description: Grape HI-CHEW		Date Completed: 08/30/2023

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

Analysis Date/T Analysis Date/T Analyst: KF	<b>ïme:</b> 08/29/2023 1 <b>ïme:</b> - (DMA)	936 (ICP/OES)		<b>hod:</b> ICP/MS <b>rument:</b> Agilent 7500ce	<b>Deviations from SOP:</b> 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)	$\mathbf{A}$
Arsenic (As)	DET	58.1	91.9	200	
Cadmium (Cd)	-	58.1	91.9	200	A A A A A A A A A A A A A A A A A A A
Lead (Pb)	-	58.1	91.9	500	a the second sec
Mercury (Hg)		58.1	91.9	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.

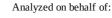
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Cultivar (Strain) or Sample Do	Date Completed: 08/30/2023		

#### 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
<u>Bacteria/Microbe</u>	<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	and the second sec
Mold/Yeast	NT	-	
Pseudomonas aeruginosa	NT	-	
Salmonella spp.	NT	-	1 - pro-
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





1

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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