







### SUMMARY OF ANALYSIS (SAMPLE ID: SA33619)

Testing Location:	Customer ID: 2168	Order ID: OR10206	Sample Type: Primary
Arkansas	<b>River Valley Relief MIPS</b>	Lot Number:	Matrix: Concentrate
232 S. Broadview St.	5601 Old Greenwood Rd Suite C	M00065C13242283215	Mass: 4g
Greenbrier, AR 72058	Fort Smith, AR 72903	Production Run:	Date Collected: 12/07/2022
License: ADH 113	License: 00065C	E20221024TGKLD01	Date Received: 12/07/2022
Cultivar (Strain) or Sample Do	Date Completed: 12/14/2022		

\*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 (%)	Water Activity (aw)	PASS/FAIL		
Not Tested	Not Tested	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.

Connobinoida (Ton 2)	(0/)	
<u>Cannabinoids (Top 3)</u>	<u>(%)</u>	<u>mg/g</u>
THCA	74.6	746
Δ9-ТНС	3.31	33.1
CBGA	2.02	20.2
TOTAL CBD		-
TOTAL THC	68.8	688
TOTAL CANNABINOIDS	81.6	816
<u>Terpenes (Top 5)</u>	<u>(%)</u>	<u>µg∕g</u>
<u>Terpenes (Top 5)</u> β-Myrcene	<b>(%)</b> 2.20	<mark>µg/g</mark> 22000
β-Myrcene	2.20	22000
β-Myrcene d-Limonene	2.20 1.14	22000 11400
β-Myrcene d-Limonene β-Caryophyllene	2.20 1.14 0.486	22000 11400 4860

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





Scan the QR code to verify results.

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## **CERTIFICATE OF ANALYSIS (SAMPLE ID: SA33619)**

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Cultivar (Strain) or Sample	Date Completed: 12/14/2022		

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

Analysis Date/Time: 12/9/2022 1743 Analyst: PW Method: HPLC/DAD Instrument: Agilent 1100

-					-		
<u>Cannabinoid</u>	<u>Result</u> (%)	<u>UM</u> (+/-%)	<u>Result</u> <u>LOQ</u> (mg/g) (mg/g)		<u>Result</u> ( <u>mg/</u> <u>mL)</u>	<u>Per</u> Serving (mg)	<u>Per</u> g <u>Unit</u> (mg)
CBC	-	-	-	2.44	-	-	-
CBCA	-	-	-	2.44	-	-	-
CBD	-	-	-	2.44	-	-	-
CBDA	-	-	-	2.44	-	-	-
CBDV	-	-	-	2.44	-	-	-
CBDVA	-	-	-	2.44	-	-	-
CBG	0.916	0.0824	9.16	2.44	-	9.16	9.16
CBGA	2.02	0.182	20.2	2.44	-	20.2	20.2
CBL	-	-	-	2.44	-	-	-
CBN	-	-	-	2.44	-	-	-
CBNA	-	-	-	2.44	-	-	-
Δ9-ΤΗC	3.31	0.298	33.1	2.44	-	33.1	33.1
<b>Δ8-</b> THC	-	-	-	2.44	-	-	-
THCA	74.6	6.72	746	2.44	-	746	746
THCV	-	-	-	2.44	-	-	-
THCVA	0.693	0.0623	6.93	2.44	-	6.93	6.93
TOTAL	81.6	7.34	816		-	816	816
TOTAL CBC	-	-	-		-	-	-
TOTAL CBD	-	-	-		-	-	-
TOTAL CBDV	-	-	-		-	-	-
TOTAL CBG	2.69	0.242	26.9		-	26.9	26.9
TOTAL CBN	-	-	-		-	-	-
TOTAL THC	68.8	6.19	688		-	688	688
TOTAL THCV	0.601	0.0541	6.01		-	6.01	6.01

\* 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 (%): -Water Activity (aw): -



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.

Kyle W. Felling, Ph.D. atory Directo

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**Deviations from SOP:** 

# **CERTIFICATE OF ANALYSIS (SAMPLE ID: SA33619)**

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Greenbrier, AR 72058	Fort Smith, AR 72903	Production Run:	Date Collected: 12/07/2022
License: ADH 113	License: 00065C	E20221024TGKLD01	Date Received: 12/07/2022
Cultivar (Strain) or Sample	Date Completed: 12/14/2022		

Analysis Date/Time:12/12/2022 2034 Analyst: KF

### **TERPENOID PROFILE**

Method: GC/MS

Analyst: KF		In	strument: Agilent 7890/5975	None
<u>Terpene</u>	<u>Result</u> (µg/g)	<u>Result</u> (%)		
α-Bisabolol	719	0.0719		
Camphene	353	0.0353		
δ-3-Carene	-	-		
β-Caryophyllene	4860	0.486		
Caryophyllene oxide	231	0.0231		
p-Cymene	-	-		
Eucalyptol	-	-		
Geraniol	204	0.0204		
Guaiol	-	-		Abbreviations: GC - Gas
α-Humulene	2160	0.216	1	Chromatography, MS - Mass Spectrometry, RL - Reporting Limit
Isopulegol	-	-		
d-Limonene	11400	1.14	_	This information is provided as a service and makes no claims of efficacy and/or
Linalool	3230	0.323		safety of this product.
β-Myrcene	22000	2.20		Results are applicable only for the sample(s) analyzed and for the specific
cis-Nerolidol	-	-		analysis conducted.
trans-Nerolidol	234	0.0234		This report is for informational purposes only and should not be used to diagnose,
α-Ocimene	-	-		treat, or prevent any
β-Ocimene	349	0.0349		medical-related symptoms.
α-Pinene	993	0.0993		The statements and results herein have not been approved and/or endorsed by
β-Pinene	1890	0.189		the FDA.
α-Terpinene	74.3	0.00743		
γ-Terpinene	91.5	0.00915		
Terpinolene	348	0.0348		"-" Not detected above RL.
TOTAL	49100	4.91		Reporting Limit (µg/g): 19.7













## **CERTIFICATE OF ANALYSIS (SAMPLE ID: SA33619)**

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Cultivar (Strain) or Sample	Date Completed: 12/14/2022		

#### **RESIDUAL SOLVENT PROFILE (SOP: SOP-RS-001)**

Analysis Date/Time:	is Date/Time: 12/8/2022 0724 Method: HS/GC/MS Deviations from SOP:					from SOP:				
Analyst: KF				Iı	nstrument: Agilent 789	0/5975	None			
<u>Solvent</u>	<u>Result</u> (µg/g)	<u>LOD</u> (µg/g)	LOQ (µg/g)	<u>Action</u> Level (µg/g)	<u>Solvent</u>	<u>Result</u> (µg/g)	<u>LOD</u> (µg/g)	<u>LOQ</u> (µg/g)	<u>Action</u> Level (µg/g)	
Acetone (67-64-1)	-	32.1	64.3	5000	n-Heptane (142-82-5)	-	32.1	64.3	5000	
Acetonitrile (75-5-8)	-	32.1	64.3	410	n-Hexane (110-54-3)	-	11.2	22.5	290	
Benzene (71-43-2)	-	0.321	0.643	2	Isobutane (75-28-5)	-	32.1	64.3	5000	1
n-Butane (106-97-2)	158	32.1	64.3	5000	Isopropanol (67-63-0)	-	32.1	64.3	5000	
1-Butanol (71-36-3)	-	32.1	64.3	5000	Isopropyl acetate	_	32.1	64.3	5000	
2-Butanol (78-92-2)	-	32.1	64.3	5000	(108-21-4)					
2-Butanone (78-93-3)	-	32.1	64.3	5000	Isopropyl benzene (98-82-8)	-	3.21	6.43	70	
Cyclohexane (110-82-7)	-	32.1	64.3	3880	Methanol (67-56-1)	_	32.1	64.3	3000	<u>Color Key</u>
1,2-Dimethoxyethane	_	3.21	6.43	100	2-Methylbutane (78-78-4)	-	32.1	64.3	5000	
(110-71-4) N,N-Dimethylacetamide (127-19-5)	_	32.1	64.3	1090	Methylene chloride (75-9-2)	-	32.1	64.3	600	RESULT < AL RESULT > AL
(127-19-5) 2,2-Dimethylbutane (75-83-2)	-	11.2	22.5	290	2-Methylpentane (107-83-5)	-	11.2	22.5	290	"DET" detected less than LOQ
2,3-Dimethylbutane					3-Methylpentane (96-10-0)	-	11.2	22.5	290	"-" not detected above
(79-29-8)	-	11.2	22.5	290	n-Pentane (109-66-0)	-	32.1	64.3	5000	LOD
N,N-Dimethylformamide		32.1	64.3	880	1-Pentanol (71-41-0)	-	32.1	64.3	5000	"*" - o,m,p-Xylene and
(68-12-2)		52.1	04.3	000	n-Propane (74-98-6)	-	32.1	64.3	5000	Ethylbenzene
Dimethylsulfoxide	_	32.1	64.3	5000	1-Propanol (71-23-8)	-	32.1	64.3	5000	5
(67-68-5)		22.1	64.3	380	Pyridine (110-86-1)	-	11.2	22.5	200	Action levels are
1,4-Dioxane (123-91-1)	-	32.1		5000	Tetrahydrofuran (109-99-9)	-	32.1	64.3	720	referenced from the State of Arkansas
Ethanol (64-17-5)	-	32.1 11.2	64.3 22.5	160	Tetramethylene sulfone		11.2	22.5	160	MMJ testing
2-Ethoxyethanol (110-80-5) Ethyl ether (60-29-7)	-	32.1	64.3	5000	(126-33-0)					guidelines.
Ethyl acetate (141-78-6)	-	32.1	64.3	5000	Toluene (108-88-3)	-	32.1	64.3	890	A value of "-"
Ethyl benzene (100-41-4)	-	32.1	64.3	2170	o-Xylene (95-47-6)	-	32.1	64.3	2170	for the action level
Ethylene glycol (107-21-1)		32.1	64.3	620	m,p-Xylene (108-38-3 or 106-42-3)	-	32.1	64.3	2170	means that analyte
Ethylene oxide (75-21-8)		3.21	6.43	50	Xylenes* (1330-20-7)		43.3	86.7	2170	is not currently
,	-			30	- · · ·	-	-	00.7	2170	regulated by the regulations referenced above.
<u>Solvent</u>		Synonym(s	-		<u>Solvent</u>		Synonym(s)			
Acetonitrile		Methyl Cya			Ethylene glycol		,2-Ethanediol			
1-Butanol		n-Butanol,	5	hol	Isobutane		-Methylpropa			
2-Butanol		sec-Butyl a		C V	Isopropanol		-Propanol, IPA			
2-Butanone		Methyl ethy		1EK	Isopropyl Acetate		Acetic acid iso			
1,2-Dimethoxyethane		Monoglym	e		Methanol		Aethyl alcohol			
2,3-Dimethylbutane		Neohexane	1		2-Methylbutane		sopentane			
2,3-Dimethylbutane		Diisopropy	1		Methylene chloride		Dichlorometha	ne		
N,N-Dimethylformamide		DMF			2-Methylpentane		sohexane			
Dimethysufoxide		DMSO	Dahari d	-1	1-Pentanol		-Amyl alcoho	l		
2-Ethoxyethanol		Cellosolve,		01	1-Propanol		ropyl alcohol			
Ethyl ether		Diethyl eth	er, Ether		Tetrahydrofuran		THF			
Ethyl acetate		EtOAc			Tetramethylene sulfone		Sulfolane			
Ethyl benzene		Phenyletha	ne		Xylene	Γ	Dimethylbenze	ne		

Abbreviations: HS-Headspace, GC-Gas Chromatography, MS-Mass Spectrometry, RL-Reporting Limit, AL-Action Level, CAS-Chemical Abstract Services, LOD - Limit of Detection, LOQ - Limit of Quantification

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**Deviations from SOP:** 

None

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Cultivar (Strain) or Sample	<b>Date Completed:</b> 12/14/2022		

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

### Analysis Date/Time: 12/12/2022 1849 Analyst: KF

#### 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> Level (µg/g)	
Abamectin (71751-41-2)	-	0.0197	0.158	0.5	Kresoxim-methyl	_	0.0197	0.158	0.4	
Acephate (30560-19-1)	-	0.0197	0.158	0.4	(143390-89-0)					
Acequinocyl (57960-19-7)	-	0.0197	0.158	2	Malathion (121-75-5)	-	0.0197	0.158	0.2	
Acetamiprid (135410-20-7)	-	0.0197	0.158	0.2	Metalaxyl (57837-19-1) Methiocarb (2032-65-7)	-	0.0197 0.0197	0.158 0.158	0.2 0.2	<u>Color Key</u>
Aldicarb (116-06-3)	-	0.0197	0.158	0.4	Methomyl (16752-77-5)	-	0.0197	0.158	0.4	<b>RESULT &lt; AL</b>
Azoxystrobin (131860-33-8)	-	0.0197	0.158	0.2	Methyl parathion (298-0-0)	-	0.0197	0.158	0.2	RESULT > AL
Bifenazate (149877-41-8)	-	0.0197	0.158	0.2	MGK 264 (113-48-4)	-	0.0197	0.158	0.2	"DET" detected less than LOQ
Bifenthrin (82657-04-3)	-	0.0197	0.158	0.2	Myclobutanil	_	0.0197	0.158	0.2	"-" not detected above
Boscalid (188425-85-6)	-	0.0197	0.158	0.4	(88671-89-0)					LOD
Carbaryl (63-25-2)	-	0.0197	0.158	0.2	Naled (300-76-5)	-	0.0197	0.158	0.5	Permethrins measured as the
Carbofuran (1563-66-2)	-	0.0197	0.158	0.2	Oxamyl (23135-22-0)	-	0.0197	0.158	1	cumulative residue of the <i>cis</i> - and
Chlorantraniliprole (800008-45-7)	-	0.0197	0.158	0.2	Paclobutrazol (76738-62-0)	-	0.0197	0.158	0.4	<i>trans</i> - permethrin isomers.
Chlorfenapyr	_	0.0197	0.158	1	Permethrins (52645-53-1)	-	0.0197	0.158	0.2	Pyrethrins measured as the cumulative residue of the
(122453-73-0)	-	0.0197	0.150	1	Phosmet (732-11-6)	-	0.0197	0.158	0.2	pyrethrin I, cinerin I, and jasmolin
Chlorpyrifos (2921-88-2)	-	0.0197	0.158	0.2	Piperonyl butoxide	_	0.0197	0.158	2	I isomers.
Clofentezine (74115-24-5)	-	0.0197	0.158	0.2	(51-03-6) Duallathaine (2221-26-0)		0.0107	0.150	0.2	Action levels are referenced from
Cyfluthrin (68359-37-5)	-	0.0197	0.158	1	Prallethrins (2331-36-9)	-	0.0197	0.158	0.2	the
Cypermethrin (52315-07-8)	-	0.0197	0.158	1	Propiconazole (60207-90-1))	-	0.0197	0.158	0.4	State of Arkansas MMJ testing guidelines.
Daminozide (1596-84-5)	-	0.0197	0.158	1	Propoxur (114-26-1)	-	0.0197	0.158	0.2	A value of "-" for the action level
DDVP (62-73-7)	-	0.0197	0.158	0.1	Pyrethrins (8003-34-7)	-	0.0197	0.158	1	means that analyte is not
Diazinon (333-41-5)	-	0.0197	0.158	0.2	Pyridaben (96489-71-3)	-	0.0197	0.158	0.2	currently regulated by the regulations referenced above.
Dimethoate (60-51-5)	-	0.0197	0.158	0.2	Spinosad (168316-95-8)	-	0.0197	0.158	0.2	regulations referenced above.
Ethoprophos (13194-48-4)	-	0.0197	0.158	0.2	Spiromesifen (283594-90-1)	-	0.0197	0.158	0.2	Disclaimer: This information is
Etofenprox (80844-07-1)	-	0.0197	0.158	0.4	Spirotetramat					provided as a service and makes no claims of efficacy and/or safety
Etoxazole (153233-91-1)	-	0.0197	0.158	0.2	(203313-25-1)	-	0.0197	0.158	0.2	of this product. Results are
Fenoxycarb (72490-01-8)	-	0.0197	0.158	0.2	Spiroxamine		0.0197	0.158	0.4	applicable only for the sample(s) analyzed and for the specific
(E)-Fenpyroximate (134098-61-6)	-	0.0197	0.158	0.4	(118134-30-8) Tebuconazole	-				analysis conducted. This report is for informational purposes only
Fipronil (120068-37-3)	-	0.0197	0.158	0.4	(80443-41-0)	-	0.0197	0.158	0.4	and should not be used to
Flonicamid (158062-67-0)	-	0.0197	0.158	1	Thiacloprid	_	0.0197	0.158	0.2	diagnose, treat, or prevent any medical-related symptoms. The
Fludioxinil (131341-86-1)	-	0.0197	0.158	0.4	(111988-49-9)					statements and results herein have
Hexythiazox (78587-05-0)	-	0.0197	0.158	1	Thiamethoxam (153719-23-4)	-	0.0197	0.158	0.2	not been approved and/or
Imazalil (35554-44-0)	-	0.0197	0.158	0.2	Trifloxystrobin			o	<b>a</b> -	endorsed by the FDA.
Imidacloprid (138261-41-3)	-	0.0197	0.158	0.4	(141517-21-7)	-	0.0197	0.158	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	<u>Synonym(s)</u>
Cyfluthrin	Baythroid	Myclobutanil	Systhane	Propiconazole	Tilt
DDVP	Dichlorvos	Naled	Dibrom	Propoxur	Baygon
Ethoprophos	Prophos	Phosmet	Imidan		



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License: ADH 113	License: 00065C	E20221024TGKLD01	Date Received: 12/07/2022
Cultivar (Strain) or Sample	Date Completed: 12/14/2022		

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

Analysis Date/Time: 12/8/2022 2003 (ICP/OES) Analysis Date/Time: - (DMA) Analyst: KF		<b>Method:</b> ICP/OES <b>Instrument:</b> Agilent 720-ES		<b>Deviations from SOP:</b> None	
<u>Heavy Metal</u>	<u>Result</u> (µg/kg)	<u>LOD</u> <u>(µg/kg)</u>	<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	
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.

*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.













# **CERTIFICATE OF ANALYSIS (SAMPLE ID: SA33619)**

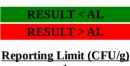
Testing Location:	Customer ID: 2168	Sample ID: SA33619	Sample Type: Primary
Arkansas	<b>River Valley Relief MIPS</b>	Lot Number:	Matrix: Concentrate
232 S. Broadview St.	5601 Old Greenwood Rd Suite C	M00065C13242283215	Mass: 4g
Greenbrier, AR 72058	Fort Smith, AR 72903	Production Run:	Date Collected: 12/07/2022
License: ADA 05_H273	License: 00065C	E20221024TGKLD01	Date Received: 12/07/2022
Cultivar (Strain) or Sample	<b>Date Completed:</b> 12/14/2022		

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

Analysis Date/Time: 2022120 Analyst: PW		ardy Diagnostics CompactDry <b>t:</b> 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	
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





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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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