



## SUMMARY OF ANALYSIS (SAMPLE ID: SA35649)

Testing Location:	Customer ID: 2168	Order ID: OR10532	Sample Type: Primary
Arkansas	<b>River Valley Relief MIPS</b>	Lot Number:	Matrix: Concentrate
232 S. Broadview St.	5601 Old Greenwood Rd Suite C	M00065C13240802666	Mass: 4grams
Greenbrier, AR 72058	Fort Smith, AR 72903	Production Run:	Date Collected: 07/17/2023
License: ADH 113	License: 00065C	E20230717USKLD02	Date Received: 07/17/2023
Cultivar (Strain) or Sample De	Date Completed: 07/20/2023		

\*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
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.

<u>Cannabinoids (Top 3)</u>	<u>(%)</u>	<u>mg</u> /g
THCA	93.5	935
Δ9-ΤΗC	1.24	12.4
CBGA	1.17	11.7
TOTAL CBD	-	-
TOTAL THC	83.2	832
TOTAL CANNABINOIDS	96.5	965
<u>Terpenes (Top 5)</u>	<u>(%)</u>	µg∕g
<u>Terpenes (Top 5)</u> d-Limonene	<u>(%)</u> 0.780	<mark>µg/g</mark> 7800
d-Limonene	0.780	7800
d-Limonene β-Myrcene	0.780 0.751	7800 7510
d-Limonene β-Myrcene trans-Nerolidol	0.780 0.751 0.616	7800 7510 6160

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

# Sample Picture Upon Receipt



Scan the QR code to verify results.

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Cultivar (Strain) or Sample	Date Completed: 07/20/2023		

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

Analysis Date/Time: 07/18/2023 2044 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	0.110	0.256	-	-	-
CBCA	ND	ND	0.341	0.796	-	-	-
CBD	ND	ND	0.774	1.81	-	-	-
CBDA	ND	ND	0.285	0.666	-	-	-
CBDV	ND	ND	0.124	0.290	-	-	-
CBDVA	ND	ND	0.331	0.774	-	-	-
CBG	ND	ND	0.503	1.17	-	-	-
CBGA	1.17	11.7	0.713	0.841	-	11.7	11.7
CBL	ND	ND	0.581	1.36	-	-	-
CBN	ND	ND	0.267	0.623	-	-	-
CBNA	ND	ND	0.288	0.671	-	-	-
Δ9-ΤΗC	1.24	12.4	0.320	0.746	-	12.4	12.4
$\Delta 8$ -THC	ND	ND	0.499	1.16	-	-	-
THCA	93.5	935	0.173	0.406	-	935	935
THCV	ND	ND	0.416	0.970	-	-	-
THCVA	0.573	5.73	0.133	0.309	-	5.73	5.73
TOTAL	96.5	965			-	965	965
TOTAL CBC	-	-			-	-	-
TOTAL CBD	-	-			-	-	-
TOTAL CBDV	-	-			-	-	-
TOTAL CBG	1.02	10.2			-	10.2	10.2
TOTAL CBN	-	-			-	-	-
TOTAL THC	83.2	832			-	832	832
TOTAL THCV	0.497	4.97			-	4.97	4.97

*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.

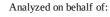
mg/g results are reported as mass component per mass material.













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Cultivar (Strain) or Sample	Date Completed: 07/20/2023		

Analysis Date/Time:07/19/2023 2006 Analyst: KF

Method: GC/MS

Analyst: KF		Instrument: Agilent 7890/5975				
<u>Terpene</u>	<u>Result</u> (µg/g)	<u>Result</u> (%)				
α-Bisabolol	ND	-				
Camphene	<loq< td=""><td>-</td><td></td><td></td></loq<>	-				
δ-3-Carene	ND	-				
β-Caryophyllene	4820	0.482				
Caryophyllene oxide	ND	-	_			
p-Cymene	ND	-				
Eucalyptol	ND	-				
Geraniol	ND	-				
Guaiol	ND	-				
α-Humulene	1730	0.173		4b Ch		
Isopulegol	ND	-		Sp		
d-Limonene	7800	0.780		4£		
Linalool	ND	-		of		
β-Myrcene	7510	0.751		Гh In		
cis-Nerolidol	2120	0.212	-	ai		
trans-Nerolidol	6160	0.616		Re		
α-Ocimene	ND	-		a In		
β-Ocimene	ND	-		Γh		
α-Pinene	867	0.0867		on re		
β-Pinene	2500	0.250		ne		
α-Terpinene	ND	-		Γh		
γ-Terpinene	ND	-		10 he		
Terpinolene	1440	0.144	1			
TOTAL	35000	3.50		-		



**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): 241

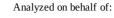
"-" Not detected above LOD.













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

Analysis Date/Time:	07/19/20	)23 0647		ľ	Method: HS/GC/MS			D	eviation	s from SOP:
Analyst: KF			Instrument: Agilent 7890/5975		5 None					
<u>Solvent</u>	<u>Result</u> (µg/g)	LOD (µg/g)	<u>LOQ</u> (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)	-	108	216	5000	n-Heptane (142-82-5)	-	108	216	5000	
Acetonitrile (75-5-8)	-	108	216	410	n-Hexane (110-54-3)	-	37.8	75.6	290	
Benzene (71-43-2)	-	1.08	2.16	2	Isobutane (75-28-5)	-	108	216	5000	
n-Butane (106-97-2)	-	108	216	5000	Isopropanol (67-63-0)	-	108	216	5000	
1-Butanol (71-36-3)	-	108	216	5000	Isopropyl acetate	_	108	216	5000	
2-Butanol (78-92-2)	-	108	216	5000	(108-21-4)		100	210	5000	
2-Butanone (78-93-3)	-	108	216	5000	Isopropyl benzene (98-82-8)	-	10.8	21.6	70	
Cyclohexane (110-82-7)	-	108	216	3880	(98 62 6) Methanol (67-56-1)		108	216	3000	<u>Color Key</u>
1,2-Dimethoxyethane	_	10.8	21.6	100	2-Methylbutane (78-78-4)	_	108	216	5000	
(110-71-4) N,N-Dimethylacetamide	_	108	216	1090	Methylene chloride (75-9-2)	-	108	216	600	RESULT < AL RESULT > AL
(127-19-5) 2,2-Dimethylbutane (75-83-2)	-	37.8	75.6	290	2-Methylpentane (107-83-5)	-	37.8	75.6	290	"DET" detected less than LOQ
2,3-Dimethylbutane					3-Methylpentane (96-10-0)	-	37.8	75.6	290	"-" not detected above
(79-29-8)	-	37.8	75.6	290	n-Pentane (109-66-0)	-	108	216	5000	LOD
N,N-Dimethylformamide		109	216	880	1-Pentanol (71-41-0)	-	108	216	5000	"*" - o,m,p-Xylene and
(68-12-2)		108	210	000	n-Propane (74-98-6)	-	108	216	5000	Ethylbenzene
Dimethylsulfoxide		108	216	5000	1-Propanol (71-23-8)	-	108	216	5000	5
(67-68-5)		108	216	380	Pyridine (110-86-1)	-	37.8	75.6	200	Action levels are
1,4-Dioxane (123-91-1)	-	108	216	5000	Tetrahydrofuran (109-99-9)	-	108	216	720	referenced from the State of Arkansas
Ethanol (64-17-5)	-	37.8	216 75.6	160	Tetramethylene sulfone	_	37.8	75.6	160	MMJ testing
2-Ethoxyethanol (110-80-5) Ethyl ether (60-29-7)	-	108	216	5000	(126-33-0)					guidelines.
Ethyl acetate (141-78-6)	-	108	210	5000	Toluene (108-88-3)	-	108	216	890	A value of "-"
Ethyl benzene (100-41-4)	-	108	210	2170	o-Xylene (95-47-6)	-	108	216	2170	for the action level
Ethylene glycol (107-21-1)		108	216	620	m,p-Xylene (108-38-3 or 106-42-3)	-	108	216	2170	means that analyte
Ethylene oxide (75-21-8)	-	10.8	21.6	50	Xylenes* (1330-20-7)	-	43.3	86.7	2170	is not currently regulated by the regulations referenced above.
Solvent		Synonym(s	<u>s)</u>		Solvent	S	ynonym(s)			regulations referenced above.
Acetonitrile		Methyl Cya	anide, ACN		Ethylene glycol	1	,2-Ethanediol			
1-Butanol		n-Butanol,	Butyl Alco	hol	Isobutane	2	-Methylpropa	ine		
2-Butanol		sec-Butyl a	lcohol		Isopropanol	2	-Propanol, IP/	A		
2-Butanone		Methyl eth	yl ketone, N	1EK	Isopropyl Acetate	A	Acetic acid iso	propyl este	r	
1,2-Dimethoxyethane		Monoglym	e		Methanol	Ν	Aethyl alcoho	l		
2,3-Dimethylbutane		Neohexane			2-Methylbutane	Is	sopentane			
2,3-Dimethylbutane		Diisopropy	/l		Methylene chloride	Γ	Dichlorometha	ne		
N,N-Dimethylformamide		DMF			2-Methylpentane	Is	sohexane			
Dimethysufoxide		DMSO			1-Pentanol	n	-Amyl alcoho	1		
2-Ethoxyethanol		Cellosolve	, Ethyl glyc	ol	1-Propanol	Р	ropyl alcohol			
Ethyl ether		Diethyl eth	ier, Ether		Tetrahydrofuran	Т	THF			
Ethyl acetate		EtOAc			Tetramethylene sulfone	S	Sulfolane			
Ethyl benzene		Phenyletha	ne		Xylene	Γ	Dimethylbenze	ene		

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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## Analysis Date/Time: 07/18/2023 2311 Analyst: KF

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

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

Analyst: KF					<b>Instrument:</b> 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)	Pesticide	<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)	-	0.0480	0.384	0.5	Kresoxim-methyl	_	0.0480	0.384	0.4	
Acephate (30560-19-1)	-	0.0480	0.384	0.4	(143390-89-0)					
Acequinocyl (57960-19-7)	-	0.0480	0.384	2	Malathion (121-75-5)	-	0.0480	0.384	0.2	
Acetamiprid (135410-20-7)	-	0.0480	0.384	0.2	Metalaxyl (57837-19-1) Methiocarb (2032-65-7)	-	0.0480 0.0480	0.384 0.384	0.2 0.2	
Aldicarb (116-06-3)	-	0.0480	0.384	0.4	Methomyl (16752-77-5)	-	0.0480	0.384	0.4	
Azoxystrobin (131860-33-8)	-	0.0480	0.384	0.2	Methyl parathion (298-0-0)	-	0.0480	0.384	0.2	
Bifenazate (149877-41-8)	-	0.0480	0.384	0.2	MGK 264 (113-48-4)	-	0.0480	0.384	0.2	"DET"
Bifenthrin (82657-04-3)	-	0.0480	0.384	0.2	Myclobutanil		0.0480	0.384	0.2	"_"
Boscalid (188425-85-6)	-	0.0480	0.384	0.4	(88671-89-0)		0.0400			_
Carbaryl (63-25-2)	-	0.0480	0.384	0.2	Naled (300-76-5)	-	0.0480	0.384	0.5	
Carbofuran (1563-66-2)	-	0.0480	0.384	0.2	Oxamyl (23135-22-0)	-	0.0480	0.384	1	Perme cumulati
Chlorantraniliprole (800008-45-7)	-	0.0480	0.384	0.2	Paclobutrazol (76738-62-0)	-	0.0480	0.384	0.4	trans
Chlorfenapyr		0.0400	0.204	1	Permethrins (52645-53-1)	-	0.0480	0.384	0.2	Pyret
(122453-73-0)	-	0.0480	0.384	1	Phosmet (732-11-6)	-	0.0480	0.384	0.2	cum pyrethrir
Chlorpyrifos (2921-88-2)	-	0.0480	0.384	0.2	Piperonyl butoxide	-	0.0480	0.384	2	15
Clofentezine (74115-24-5)	-	0.0480	0.384	0.2	(51-03-6)			0.004	0.0	Action 1
Cyfluthrin (68359-37-5)	-	0.0480	0.384	1	Prallethrins (2331-36-9)	-	0.0480	0.384	0.2	rection i
Cypermethrin (52315-07-8)	-	0.0480	0.384	1	Propiconazole (60207-90-1))	-	0.0480	0.384	0.4	State of
Daminozide (1596-84-5)	-	0.0480	0.384	1	Propoxur (114-26-1)	-	0.0480	0.384	0.2	Avalue
DDVP (62-73-7)	-	0.0480	0.384	0.1	Pyrethrins (8003-34-7)	-	0.0480	0.384	1	mea
Diazinon (333-41-5)	-	0.0480	0.384	0.2	Pyridaben (96489-71-3)	-	0.0480	0.384	0.2	curre
Dimethoate (60-51-5)	-	0.0480	0.384	0.2	Spinosad (168316-95-8)	-	0.0480	0.384	0.2	regula
Ethoprophos (13194-48-4)	-	0.0480	0.384	0.2	Spiromesifen	-	0.0480	0.384	0.2	Disclai
Etofenprox (80844-07-1)	-	0.0480	0.384	0.4	(283594-90-1)					provide no claim
Etoxazole (153233-91-1)	-	0.0480	0.384	0.2	Spirotetramat (203313-25-1)	-	0.0480	0.384	0.2	of thi
Fenoxycarb (72490-01-8)	-	0.0480	0.384	0.2	Spiroxamine		0.0400	0.004		applicat
(E)-Fenpyroximate (134098-61-6)	-	0.0480	0.384	0.4	(118134-30-8) Tebuconazole	-	0.0480	0.384	0.4	analyz analysis for info
Fipronil (120068-37-3)	-	0.0480	0.384	0.4	(80443-41-0)	-	0.0480	0.384	0.4	and s
Flonicamid (158062-67-0)	-	0.0480	0.384	1	Thiacloprid		0.0490	0.204	0.2	diagno
Fludioxinil (131341-86-1)	-	0.0480	0.384	0.4	(111988-49-9)		0.0480	0.384	0.2	medical statemen
Hexythiazox (78587-05-0)		0.0480	0.384	1	Thiamethoxam	-	0.0480	0.384	0.2	not l
Imazalil (35554-44-0)	-	0.0480	0.384	0.2	(153719-23-4)					en
Imidacloprid (138261-41-3)	-	0.0480	0.384	0.4	Trifloxystrobin (141517-21-7)	-	0.0480	0.384	0.2	

**Deviations from SOP:** 

None



<u>Color Key</u>

RESULT > AL ET" detected less than LOQ "-" not detected above LOD ermethrins measured as the alative residue of the *cis*- and *rans*- permethrin isomers. Yrethrins measured as the cumulative residue of the chrin I, cinerin I, and jasmolin I isomers.

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



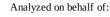
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Cultivar (Strain) or Sample	Date Completed: 07/20/2023		

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

<b>Analysis Date/Time:</b> 07/20/2023 0704 (ICP/OES) <b>Analysis Date/Time: -</b> (DMA) <b>Analyst:</b> KF			_	t <b>hod:</b> ICP/MS t <b>rument:</b> Agilent 7500	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)	-	56.9	90.2	200	
Cadmium (Cd)	-	56.9	90.2	200	
Lead (Pb)	-	56.9	90.2	500	
Mercury (Hg)	-	56.9	90.2	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.

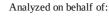
*Disclaimer:* This information is provided as a service and makes no claims of efficacy and/or safety of this product. Results are applicable only for the sample(s) analyzed and for the specific analysis conducted. This report is for informational purposes only and should not be used to diagnose, treat,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













Testing Location:	Customer ID: 2168	Sample ID: SA35649	Sample Type: Primary
Arkansas	River Valley Relief MIPS	Lot Number:	Matrix: Concentrate
232 S. Broadview St.	5601 Old Greenwood Rd Suite C	M00065C13240802666	Mass: 4grams
Greenbrier, AR 72058	Fort Smith, AR 72903	Production Run:	Date Collected: 07/17/2023
License: ADA 05_H273	License: 00065C	E20230717USKLD02	Date Received: 07/17/2023
Cultivar (Strain) or Sample D	Date Completed: 07/20/2023		

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

Analysis Date/Time: 07/19/20 Analyst: PW		<b>od:</b> Hardy Diagnostics CompactDry <b>ment:</b> Thermo Incubator	<b>Deviations from SOP:</b> None
Bacteria/Microbe	<u>Result</u> (CFU/g)	Action Level (CFU/g)	
Aerobic Plate Count	NT	-	
Coliforms, Total	Absent	1	
Escherichia Coli (E. Coli)	Absent	100	
Mold/Yeast	NT	-	Contraction of the second
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





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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