







## SUMMARY OF ANALYSIS (SAMPLE ID: SA34718)

Testing Location:	Customer ID: 2168	Order ID: OR10354	Sample Type: Primary
Arkansas	<b>River Valley Relief MIPS</b>	Lot Number:	Matrix: Concentrate
232 S. Broadview St.	5601 Old Greenwood Rd Suite C	M00065C13247522878	Mass: 4g
Greenbrier, AR 72058	Fort Smith, AR 72903	Production Run:	Date Collected: 03/15/2023
License: ADH 113	License: 00065C	E20230314GVALD01	Date Received: 03/16/2023
Cultivar (Strain) or Sample D	Date Completed: 03/22/2023		

\*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.

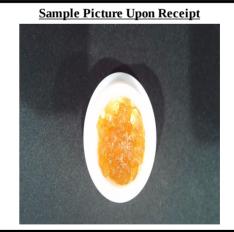
Moisture Content (%)	Water Activity (aw)	PASS/FAIL
Not Tested	Not Tested	PASS

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.

Cannabinoids (Top 3)	<u>(%)</u>	mg/g
THCA	80.0	800
Δ <b>9-</b> THC	3.34	33.4
CBGA	2.48	24.8
TOTAL CBD	-	
TOTAL THC	73.5	735
TOTAL CANNABINOIDS	86.1	861
<u>Terpenes (Top 5)</u>	<u>(%)</u>	µg∕g
<u>Terpenes (Top 5)</u> d-Limonene	<u>(%)</u> 0.743	<b>µg/g</b> 7430
d-Limonene	0.743	7430
d-Limonene β-Myrcene	0.743 0.568	7430 5680
d-Limonene β-Myrcene β-Caryophyllene	0.743 0.568 0.328	7430 5680 3280

PASS/FAIL
PASS
PASS
PASS
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.

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Cultivar (Strain) or Sample Des	Date Completed: 03/22/2023		

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

Analysis Date/Time: 3/17/2023 1649 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	0.441	1.03	-	-	-
CBCA	ND	ND	1.37	3.20	-	-	-
CBD	ND	ND	3.11	7.26	-	-	-
CBDA	ND	ND	1.15	2.67	-	-	-
CBDV	ND	ND	0.499	1.16	-	-	-
CBDVA	ND	ND	1.33	3.11	-	-	-
CBG	ND	ND	2.02	4.72	-	-	-
CBGA	2.48	24.8	1.45	3.38	-	24.8	24.8
CBL	ND	ND	2.33	5.45	-	-	-
CBN	ND	ND	1.07	2.50	-	-	-
CBNA	ND	ND	1.16	2.70	-	-	-
Δ9-ΤΗC	3.34	33.4	1.28	3.00	-	33.4	33.4
$\Delta 8$ -THC	ND	ND	2.00	4.68	-	-	-
THCA	80.0	800	0.697	1.63	-	800	800
THCV	ND	ND	1.67	3.90	-	-	-
THCVA	0.343	3.43	0.534	1.24	-	3.43	3.43
TOTAL	86.1	861				861	861
TOTAL CBC	-	-					-
TOTAL CBD	-	-			-	-	-
TOTAL CBDV	-	-			-	-	-
TOTAL CBG	2.18	21.8			-	21.8	21.8
TOTAL CBN	-	-			-	-	-
TOTAL THC	73.5	735			-	735	735
TOTAL THCV	0.298	2.98			-	2.98	2.98

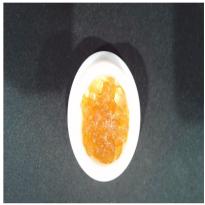
\* CBCA, CBDVA, CBL, CBNA, and THCVA are in process of being added to our accreditation scope.

*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.



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Cultivar (Strain) or Sample	Date Completed: 03/22/2023		

Analysis Date/Time:03/22/2023 0254 Analyst: KF

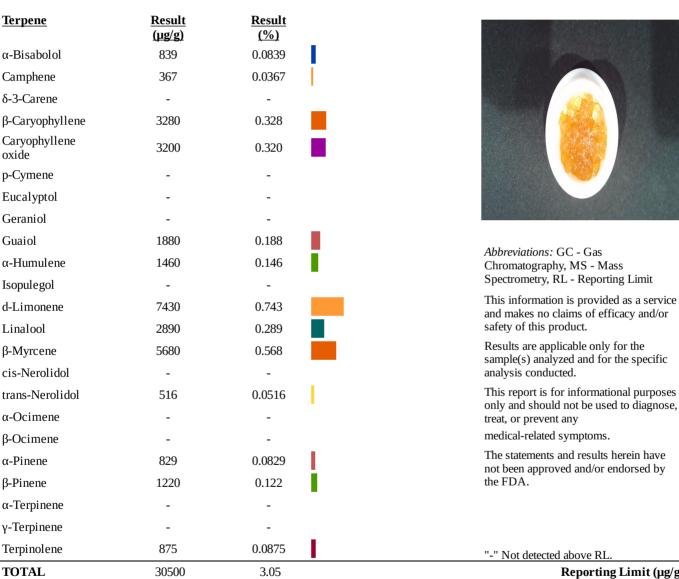
6)

Kyle W. Felling, Ph.D. aboratory Directo

#### **TERPENOID PROFILE**

Method: GC/MS Instrument: Agilent 7890/5975

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





Reporting Limit (µg/g): 42.9

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

Analysis Date/Time: 3/18/2023 0459 Method: HS/GC/MS Deviations from SOP:							s from SOP:			
Analyst: KF				Iı	nstrument: Agilent 789	0/5975	5 None			
<u>Solvent</u>	<u>Result</u> (µg/g)	<u>LOD</u> (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)	LOQ (µg/g)	<u>Action</u> Level (µg/g)	- Process
Acetone (67-64-1)	-	37.5	75.0	5000	n-Heptane (142-82-5)	-	37.5	75.0	5000	
Acetonitrile (75-5-8)	-	37.5	75.0	410	n-Hexane (110-54-3)	-	13.1	26.2	290	
Benzene (71-43-2)	-	0.375	0.750	2	Isobutane (75-28-5)	-	37.5	75.0	5000	
n-Butane (106-97-2)	658	37.5	75.0	5000	Isopropanol (67-63-0)	-	37.5	75.0	5000	
1-Butanol (71-36-3)	-	37.5	75.0	5000	Isopropyl acetate	_	37.5	75.0	5000	
2-Butanol (78-92-2)	-	37.5	75.0	5000	(108-21-4)					
2-Butanone (78-93-3)	-	37.5	75.0	5000	Isopropyl benzene (98-82-8)	-	3.75	7.50	70	
Cyclohexane (110-82-7)	-	37.5	75.0	3880	Methanol (67-56-1)	_	37.5	75.0	3000	<u>Color Key</u>
1,2-Dimethoxyethane	_	3.75	7.50	100	2-Methylbutane (78-78-4)	-	37.5	75.0	5000	
(110-71-4) N,N-Dimethylacetamide (127-19-5)	_	37.5	75.0	1090	Methylene chloride (75-9-2)	-	37.5	75.0	600	RESULT < AL RESULT > AL
(127-19-5) 2,2-Dimethylbutane (75-83-2)	_	13.1	26.2	290	2-Methylpentane (107-83-5)	-	13.1	26.2	290	"DET" detected less than LOQ
2,3-Dimethylbutane					3-Methylpentane (96-10-0)	-	13.1	26.2	290	"-" not detected above
(79-29-8)	-	13.1	26.2	290	n-Pentane (109-66-0)	-	37.5	75.0	5000	LOD
N,N-Dimethylformamide		37.5	75.0	880	1-Pentanol (71-41-0)	-	37.5	75.0	5000	"*" - o,m,p-Xylene and
(68-12-2)	_	37.5	/5.0	000	n-Propane (74-98-6)	-	37.5	75.0	5000	Ethylbenzene
Dimethylsulfoxide (67-68-5)	-	37.5	75.0	5000	1-Propanol (71-23-8)	-	37.5	75.0	5000	5
(07-00-3) 1,4-Dioxane (123-91-1)		37.5	75.0	380	Pyridine (110-86-1)	-	13.1	26.2	200	Action levels are referenced from the State of
Ethanol (64-17-5)		37.5	75.0	5000	Tetrahydrofuran (109-99-9)	-	37.5	75.0	720	Arkansas
2-Ethoxyethanol (110-80-5)		13.1	26.2	160	Tetramethylene sulfone	_	13.1	26.2	160	MMJ testing
Ethyl ether (60-29-7)		37.5	75.0	5000	(126-33-0)					guidelines.
Ethyl acetate (141-78-6)		37.5	75.0	5000	Toluene (108-88-3)	-	37.5	75.0	890	A value of "-"
Ethyl benzene (100-41-4)		37.5	75.0	2170	o-Xylene (95-47-6)	-	37.5	75.0	2170	for the action level
Ethylene glycol (107-21-1)	_	37.5	75.0	620	m,p-Xylene (108-38-3 or 106-42-3)	-	37.5	75.0	2170	means that analyte
Ethylene oxide (75-21-8)	_	3.75	7.50	50	Xylenes* (1330-20-7)	_	43.3	86.7	2170	is not currently
,		•		50	,		-	0017	21/0	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		m v	Isopropanol		Propanol, IPA			
2-Butanone		Methyl ethy		1EK	Isopropyl Acetate		Acetic acid iso			
1,2-Dimethoxyethane		Monoglym			Methanol		Methyl alcohol			
2,3-Dimethylbutane		Neohexane			2-Methylbutane		sopentane			
2,3-Dimethylbutane		Diisopropy	1		Methylene chloride		Dichlorometha	ne		
N,N-Dimethylformamide		DMF			2-Methylpentane		sohexane	,		
Dimethysufoxide		DMSO	Tabal 1	-1	1-Pentanol		1-Amyl alcoho	1		
2-Ethoxyethanol		Cellosolve,		01	1-Propanol		Propyl alcohol			
Ethyl ether		Diethyl eth	er, Ether		Tetrahydrofuran		THF			
Ethyl acetate		EtOAc			Tetramethylene sulfone		Sulfolane			
Ethyl benzene		Phenyletha	ne		Xylene	Ε	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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License: ADH 113	License: 00065C	E20230314GVALD01	Date Received: 03/16/2023
Cultivar (Strain) or Sample	Date Completed: 03/22/2023		

# Analysis Date/Time: 03/17/2023 2153 Analyst: KF

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

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

Deviations from SOP:

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)	-	0.0429	0.343	0.5	Kresoxim-methyl	_	0.0429	0.343	0.4	
Acephate (30560-19-1)	-	0.0429	0.343	0.4	(143390-89-0)					
Acequinocyl (57960-19-7)	-	0.0429	0.343	2	Malathion (121-75-5)	-	0.0429	0.343	0.2	
Acetamiprid (135410-20-7)	-	0.0429	0.343	0.2	Metalaxyl (57837-19-1) Methiocarb (2032-65-7)	-	0.0429 0.0429	0.343 0.343	0.2 0.2	<u>Color Key</u>
Aldicarb (116-06-3)	-	0.0429	0.343	0.4	Methomyl (16752-77-5)	-	0.0429	0.343	0.4	<b>RESULT &lt; AL</b>
Azoxystrobin (131860-33-8)	-	0.0429	0.343	0.2	Methyl parathion (298-0-0)	-	0.0429	0.343	0.2	<b>RESULT &gt; AL</b>
Bifenazate (149877-41-8)	-	0.0429	0.343	0.2	MGK 264 (113-48-4)	-	0.0429	0.343	0.2	"DET" detected less than LOQ
Bifenthrin (82657-04-3)	-	0.0429	0.343	0.2	Myclobutanil	_	0.0429	0.343	0.2	"-" not detected above
Boscalid (188425-85-6)	-	0.0429	0.343	0.4	(88671-89-0)					LOD
Carbaryl (63-25-2)	-	0.0429	0.343	0.2	Naled (300-76-5)	-	0.0429	0.343	0.5	Downothring management as the
Carbofuran (1563-66-2)	-	0.0429	0.343	0.2	Oxamyl (23135-22-0)	-	0.0429	0.343	1	Permethrins measured as the cumulative residue of the <i>cis</i> - and
Chlorantraniliprole (800008-45-7)	-	0.0429	0.343	0.2	Paclobutrazol (76738-62-0)	-	0.0429	0.343	0.4	<i>trans</i> - permethrin isomers.
Chlorfenapyr		0.0429	0.343	1	Permethrins (52645-53-1)	-	0.0429	0.343	0.2	Pyrethrins measured as the cumulative residue of the
(122453-73-0)	-	0.0429	0.343	1	Phosmet (732-11-6)	-	0.0429	0.343	0.2	pyrethrin I, cinerin I, and jasmolin
Chlorpyrifos (2921-88-2)	-	0.0429	0.343	0.2	Piperonyl butoxide	<u>_</u>	0.0429	0.343	2	I isomers.
Clofentezine (74115-24-5)	-	0.0429	0.343	0.2	(51-03-6)		0.0420	0.242	0.2	Action levels are referenced from
Cyfluthrin (68359-37-5)	-	0.0429	0.343	1	Prallethrins (2331-36-9)	-	0.0429	0.343	0.2	the
Cypermethrin (52315-07-8)	-	0.0429	0.343	1	Propiconazole (60207-90-1))	-	0.0429	0.343	0.4	State of Arkansas MMJ testing guidelines.
Daminozide (1596-84-5)	-	0.0429	0.343	1	Propoxur (114-26-1)	-	0.0429	0.343	0.2	A value of "-" for the action level
DDVP (62-73-7)	-	0.0429	0.343	0.1	Pyrethrins (8003-34-7)	-	0.0429	0.343	1	means that analyte is not
Diazinon (333-41-5)	-	0.0429	0.343	0.2	Pyridaben (96489-71-3)	-	0.0429	0.343	0.2	currently regulated by the
Dimethoate (60-51-5)	-	0.0429	0.343	0.2	Spinosad (168316-95-8)	-	0.0429	0.343	0.2	regulations referenced above.
Ethoprophos (13194-48-4)	-	0.0429	0.343	0.2	Spiromesifen (283594-90-1)	-	0.0429	0.343	0.2	Disclaimer: This information is
Etofenprox (80844-07-1)	-	0.0429	0.343	0.4	(2033)4-50-1) Spirotetramat					provided as a service and makes no claims of efficacy and/or safety
Etoxazole (153233-91-1)	-	0.0429	0.343	0.2	(203313-25-1)	-	0.0429	0.343	0.2	of this product. Results are
Fenoxycarb (72490-01-8)	-	0.0429	0.343	0.2	Spiroxamine		0.0429	0.343	0.4	applicable only for the sample(s) analyzed and for the specific
(E)-Fenpyroximate (134098-61-6)	-	0.0429	0.343	0.4	(118134-30-8) Tebuconazole	-				analysis conducted. This report is for informational purposes only
Fipronil (120068-37-3)	-	0.0429	0.343	0.4	(80443-41-0)	-	0.0429	0.343	0.4	and should not be used to
Flonicamid (158062-67-0)	-	0.0429	0.343	1	Thiacloprid		0.0429	0.343	0.2	diagnose, treat, or prevent any medical-related symptoms. The
Fludioxinil (131341-86-1)	-	0.0429	0.343	0.4	(111988-49-9)					statements and results herein have
Hexythiazox (78587-05-0)	-	0.0429	0.343	1	Thiamethoxam (153719-23-4)	-	0.0429	0.343	0.2	not been approved and/or
Imazalil (35554-44-0)	-	0.0429	0.343	0.2	Trifloxystrobin					endorsed by the FDA.
Imidacloprid (138261-41-3)	-	0.0429	0.343	0.4	(141517-21-7)	-	0.0429	0.343	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	Synonym(s)	Pesticide [Variable]
Cyfluthrin	Baythroid	Myclobutanil	Systhane	Propiconazole
DDVP	Dichlorvos	Naled	Dibrom	Propoxur
Ethoprophos	Prophos	Phosmet	Imidan	



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<u>Synonym(s)</u> Tilt Baygon









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

Analysis Date/T Analysis Date/T Analyst: KF	<b>ïme:</b> 3/21/2023 22։ <b>ïme:</b> - (DMA)	40 (ICP/OES)		nod: ICP/OES rument: Agilent 720-ES	<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)	
Arsenic (As)	-	57.5	91.1	200	
Cadmium (Cd)	-	57.5	91.1	200	$\sim$
Lead (Pb)	-	57.5	91.1	500	
Mercury (Hg)		57.5	91.1	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: SA34718)**

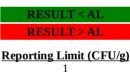
Testing Location:	Customer ID: 2168	Sample ID: SA34718	Sample Type: Primary
Arkansas	River Valley Relief MIPS	Lot Number:	Matrix: Concentrate
232 S. Broadview St.	5601 Old Greenwood Rd Suite C	M00065C13247522878	Mass: 4g
Greenbrier, AR 72058	Fort Smith, AR 72903	Production Run:	Date Collected: 03/15/2023
License: ADA 05_H273	License: 00065C	E20230314GVALD01	Date Received: 03/16/2023
Cultivar (Strain) or Sample D	Date Completed: 03/22/2023		

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

Analysis Date/Time: 2023031 Analyst: PW		Hardy Diagnostics CompactDry <b>nt:</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





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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