







#### SUMMARY OF ANALYSIS (SAMPLE ID: SA35045)

Testing Location:	Customer ID: 2168	Order ID: OR10416	Sample Type: Primary
Arkansas	<b>River Valley Relief MIPS</b>	Lot Number:	Matrix: Concentrate
232 S. Broadview St.	5601 Old Greenwood Rd Suite C	M00065C13242740388	Mass: 4g
Greenbrier, AR 72058	Fort Smith, AR 72903	Production Run:	Date Collected: 04/24/2023
License: ADH 113	License: 00065C	E20230417BBCLBa01	Date Received: 04/24/2023
Cultivar (Strain) or Sample D	Date Completed: 05/02/2023		

\*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/g</u>
THCA	78.1	781
THCVA	2.29	22.9
CBGA	1.27	12.7
TOTAL CBD	-	-
TOTAL THC	69.6	696
TOTAL CANNABINOIDS	82.7	827
<u>Terpenes (Top 5)</u>	<u>(%)</u>	<u>µg∕g</u>
<u>Terpenes (Top 5)</u> d-Limonene	<u>(%)</u> 3.65	<u>µg/g</u> 36500
d-Limonene	3.65	36500
d-Limonene β-Caryophyllene	3.65 0.880	36500 8800
d-Limonene β-Caryophyllene α-Pinene	3.65 0.880 0.828	36500 8800 8280

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

# Sample Picture Upon Receipt



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.

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## **CERTIFICATE OF ANALYSIS (SAMPLE ID: SA35045)**

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Cultivar (Strain) or Sample D	Date Completed: 05/02/2023		

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

Analysis Date/Time: 04/25/2023 1601 Analyst: PW Method: HPLC/DAD Instrument: Agilent 1100

<u>Cannabinoid</u>	<u>Result</u> (%)	<u>Result</u> (mg/g)	LOD (mg/g)	<u>LOQ</u> (mg/g)	<u>Result</u> (mg/ mL)	<u>Per</u> Serving (mg)	<u>Per</u> g <u>Unit</u> (mg)
CBC	ND	ND	0.514	1.20	-	-	-
CBCA	<loq< td=""><td><loq< td=""><td>1.60</td><td>3.73</td><td>-</td><td>-</td><td>-</td></loq<></td></loq<>	<loq< td=""><td>1.60</td><td>3.73</td><td>-</td><td>-</td><td>-</td></loq<>	1.60	3.73	-	-	-
CBD	ND	ND	3.63	8.47	-	-	-
CBDA	ND	ND	1.34	3.12	-	-	-
CBDV	ND	ND	0.582	1.36	-	-	-
CBDVA	ND	ND	1.55	3.62	-	-	-
CBG	ND	ND	2.36	5.50	-	-	-
CBGA	1.27	12.7	1.69	3.94	-	12.7	12.7
CBL	ND	ND	2.72	6.35	-	-	-
CBN	ND	ND	1.25	2.92	-	-	-
CBNA	ND	ND	1.35	3.15	-	-	-
Δ9-ΤΗC	1.04	10.4	1.50	3.49	-	10.4	10.4
<b>Δ8-</b> THC	ND	ND	2.34	5.46	-	-	-
THCA	78.1	781	0.812	1.90	-	781	781
THCV	ND	ND	1.95	4.54	-	-	-
THCVA	2.29	22.9	0.623	1.45	-	22.9	22.9
TOTAL	82.7	827				827	827
TOTAL CBC	-	-			-	-	-
TOTAL CBD	-	-			-	-	-
TOTAL CBDV	-	-			-	-	-
TOTAL CBG	1.11	11.1			-	11.1	11.1
TOTAL CBN	-	-			-	-	-
TOTAL THC	69.6	696			-	696	696
TOTAL THCV	1.99	19.9			-	19.9	19.9

\* 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 Dire











# **CERTIFICATE OF ANALYSIS (SAMPLE ID: SA35045)**

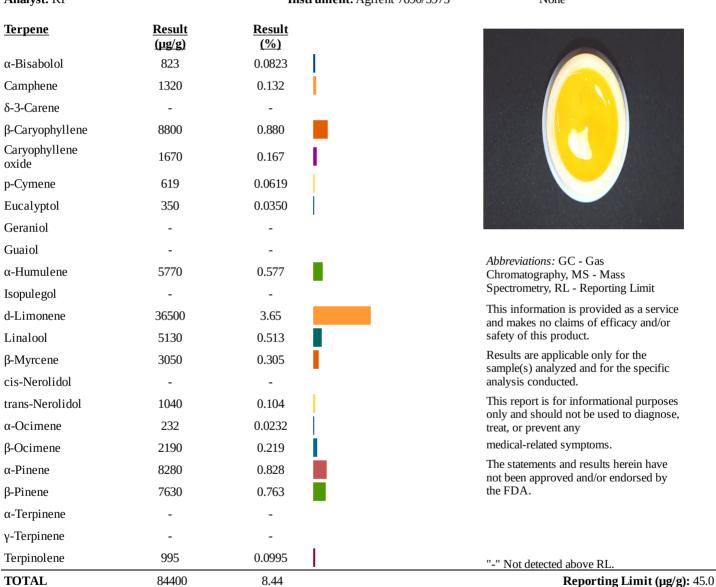
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License: ADH 113	License: 00065C	E20230417BBCLBa01	Date Received: 04/24/2023
Cultivar (Strain) or Sample I	Date Completed: 05/02/2023		

Analysis Date/Time:04/25/2023 1753 Analyst: KF

#### **TERPENOID PROFILE**

Method: GC/MS Instrument: Agilent 7890/5975 <u>Result</u> (%) 0.0823

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



6) Kyle W. Felling, Ph.D. boratory Directo











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Cultivar (Strain) or Sample	Date Completed: 05/02/2023		

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

Analysis Date/Time:	Analysis Date/Time: 05/01/2023 2105 Method: HS/GC/MS						Deviations from SOP:			
Analyst: KF				I	nstrument: Agilent 78	90/5975	5 None			
Solvent	<u>Result</u> (µg/g)	LOD (µg/g)	<u>LOQ</u> (µg/g)	<u>Action</u> Level (µg/g)	Solvent	<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)	-	31.7	63.4	5000	n-Heptane (142-82-5)	-	31.7	63.4	5000	
Acetonitrile (75-5-8)	-	31.7	63.4	410	n-Hexane (110-54-3)	-	11.1	22.2	290	
Benzene (71-43-2)	-	0.317	0.634	2	Isobutane (75-28-5)	-	31.7	63.4	5000	
n-Butane (106-97-2)	-	31.7	63.4	5000	Isopropanol (67-63-0)	-	31.7	63.4	5000	
1-Butanol (71-36-3)	-	31.7	63.4	5000	Isopropyl acetate	_	31.7	63.4	5000	
2-Butanol (78-92-2)	-	31.7	63.4	5000	(108-21-4)					
2-Butanone (78-93-3)	-	31.7	63.4	5000	Isopropyl benzene (98-82-8)	-	3.17	6.34	70	
Cyclohexane (110-82-7)	-	31.7	63.4	3880	Methanol (67-56-1)	-	31.7	63.4	3000	<u>Color Key</u>
1,2-Dimethoxyethane	-	3.17	6.34	100	2-Methylbutane (78-78-4)	-	31.7	63.4	5000	<b>RESULT &lt; AL</b>
(110-71-4) N,N-Dimethylacetamide (127-19-5)	_	31.7	63.4	1090	Methylene chloride (75-9-2)	-	31.7	63.4	600	RESULT > AL
(127-13-5) 2,2-Dimethylbutane (75-83-2)	-	11.1	22.2	290	2-Methylpentane (107-83-5)	-	11.1	22.2	290	"DET" detected less than LOQ
2,3-Dimethylbutane					3-Methylpentane (96-10-0)	-	11.1	22.2	290	"-" not detected above
(79-29-8)	-	11.1	22.2	290	n-Pentane (109-66-0)	-	31.7	63.4	5000	LOD
N,N-Dimethylformamide	_	31.7	63.4	880	1-Pentanol (71-41-0)	-	31.7	63.4	5000	"*" - o,m,p-Xylene and
(68-12-2)		51./	03.4	000	n-Propane (74-98-6)	-	31.7	63.4	5000	Ethylbenzene
Dimethylsulfoxide (67-68-5)	-	31.7	63.4	5000	1-Propanol (71-23-8)	-	31.7	63.4	5000	
(07-00-3) 1,4-Dioxane (123-91-1)		31.7	63.4	380	Pyridine (110-86-1)	-	11.1	22.2	200	Action levels are referenced from the State of
Ethanol (64-17-5)		31.7	63.4	5000	Tetrahydrofuran (109-99-9)	-	31.7	63.4	720	Arkansas
2-Ethoxyethanol (110-80-5)		11.1	22.2	160	Tetramethylene sulfone	_	11.1	22.2	160	MMJ testing
Ethyl ether (60-29-7)	_	31.7	63.4	5000	(126-33-0)					guidelines.
Ethyl acetate (141-78-6)	_	31.7	63.4	5000	Toluene (108-88-3)	-	31.7	63.4	890	A value of "-"
Ethyl benzene (100-41-4)	-	31.7	63.4	2170	o-Xylene (95-47-6)	-	31.7	63.4	2170	for the action level
Ethylene glycol (107-21-1)	-	31.7	63.4	620	m,p-Xylene (108-38-3 or 106-42-3)	-	31.7	63.4	2170	means that analyte
Ethylene oxide (75-21-8)	-	3.17	6.34	50	Xylenes* (1330-20-7)	-	43.3	86.7	2170	is not currently regulated by the regulations referenced above.
Solvent		Synonym(s	5 <b>)</b>		Solvent	S	Synonym(s)			regulations referenced above.
Acetonitrile		Methyl Cya	nide, ACN		Ethylene glycol	1	,2-Ethanediol			
1-Butanol		n-Butanol,	Butyl Alco	hol	Isobutane	2	-Methylpropa	ne		
2-Butanol		sec-Butyl a	lcohol		Isopropanol	2	-Propanol, IPA	1		
2-Butanone		Methyl ethy	yl ketone, N	1EK	Isopropyl Acetate	A	Acetic acid iso	propyl este	r	
1,2-Dimethoxyethane		Monoglym	e		Methanol	Ν	Aethyl alcohol			
2,3-Dimethylbutane		Neohexane			2-Methylbutane	Is	sopentane			
2,3-Dimethylbutane		Diisopropy	rl		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	er, 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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**Deviations from SOP:** 

None

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Cultivar (Strain) or Sample De	Date Completed: 05/02/2023		

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

#### Analysis Date/Time: 04/25/2023 1706 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> <u>Level</u> (µg/g)	<u>Pesticide</u>	<u>Result</u> (µg/g)	<u>LOD</u> (µg/g)	<u>LOQ</u> (µg/g)	<u>Action</u> <u>Level</u> (µg/g)	
Abamectin (71751-41-2)	-	0.0450	0.360	0.5	Kresoxim-methyl					
Acephate (30560-19-1)	_	0.0450	0.360	0.4	(143390-89-0)	-	0.0450	0.360	0.4	
Acequinocyl (57960-19-7)	-	0.0450	0.360	2	Malathion (121-75-5)	-	0.0450	0.360	0.2	
Acetamiprid			0.200	0.2	Metalaxyl (57837-19-1)	-	0.0450	0.360	0.2	
(135410-20-7)	-	0.0450	0.360	0.2	Methiocarb (2032-65-7)	-	0.0450	0.360	0.2	<u>Color Key</u>
Aldicarb (116-06-3)	-	0.0450	0.360	0.4	Methomyl (16752-77-5)	-	0.0450	0.360	0.4	<b>RESULT &lt; AL</b>
Azoxystrobin (131860-33-8)	-	0.0450	0.360	0.2	Methyl parathion (298-0-0)	-	0.0450	0.360	0.2	<b>RESULT &gt; AL</b>
Bifenazate (149877-41-8)	-	0.0450	0.360	0.2	MGK 264 (113-48-4)	-	0.0450	0.360	0.2	"DET" detected less than LOQ
Bifenthrin (82657-04-3)	-	0.0450	0.360	0.2	Myclobutanil	_	0.0450	0.360	0.2	"-" not detected above
Boscalid (188425-85-6)	-	0.0450	0.360	0.4	(88671-89-0)					LOD
Carbaryl (63-25-2)	-	0.0450	0.360	0.2	Naled (300-76-5)	-	0.0450	0.360	0.5	Permethrins measured as the
Carbofuran (1563-66-2)	-	0.0450	0.360	0.2	Oxamyl (23135-22-0)	-	0.0450	0.360	1	cumulative residue of the <i>cis</i> - and
Chlorantraniliprole (800008-45-7)	-	0.0450	0.360	0.2	Paclobutrazol (76738-62-0)	-	0.0450	0.360	0.4	trans-permethrin isomers.
Chlorfenapyr		0.0450	0.360	1	Permethrins (52645-53-1)	-	0.0450	0.360	0.2	Pyrethrins measured as the cumulative residue of the
(122453-73-0)	-	0.0450	0.360	1	Phosmet (732-11-6)	-	0.0450	0.360	0.2	pyrethrin I, cinerin I, and jasmolin
Chlorpyrifos (2921-88-2)	-	0.0450	0.360	0.2	Piperonyl butoxide	_	0.0450	0.360	2	I isomers.
Clofentezine (74115-24-5)	-	0.0450	0.360	0.2	(51-03-6)		0.0450	0.360	0.2	Action levels are referenced from
Cyfluthrin (68359-37-5)	-	0.0450	0.360	1	Prallethrins (2331-36-9)	-	0.0450	0.360	0.2	the
Cypermethrin (52315-07-8)	-	0.0450	0.360	1	Propiconazole (60207-90-1))	-	0.0450	0.360	0.4	State of Arkansas MMJ testing guidelines.
Daminozide (1596-84-5)	-	0.0450	0.360	1	Propoxur (114-26-1)	-	0.0450	0.360	0.2	A value of "-" for the action level
DDVP (62-73-7)	-	0.0450	0.360	0.1	Pyrethrins (8003-34-7)	-	0.0450	0.360	1	means that analyte is not
Diazinon (333-41-5)	-	0.0450	0.360	0.2	Pyridaben (96489-71-3)	-	0.0450	0.360	0.2	currently regulated by the regulations referenced above.
Dimethoate (60-51-5)	-	0.0450	0.360	0.2	Spinosad (168316-95-8)	-	0.0450	0.360	0.2	regulations referenced above.
Ethoprophos (13194-48-4)	-	0.0450	0.360	0.2	Spiromesifen (283594-90-1)	-	0.0450	0.360	0.2	Disclaimer: This information is
Etofenprox (80844-07-1)	-	0.0450	0.360	0.4	Spirotetramat					provided as a service and makes no claims of efficacy and/or safety
Etoxazole (153233-91-1)	-	0.0450	0.360	0.2	(203313-25-1)	-	0.0450	0.360	0.2	of this product. Results are
Fenoxycarb (72490-01-8)	-	0.0450	0.360	0.2	Spiroxamine		0.0450	0.360	0.4	applicable only for the sample(s) analyzed and for the specific
(E)-Fenpyroximate (134098-61-6)	-	0.0450	0.360	0.4	(118134-30-8) Tebuconazole		0.0450	0.360		analysis conducted. This report is for informational purposes only
Fipronil (120068-37-3)	-	0.0450	0.360	0.4	(80443-41-0)	-	0.0450	0.360	0.4	and should not be used to
Flonicamid (158062-67-0)	-	0.0450	0.360	1	Thiacloprid	_	0.0450	0.360	0.2	diagnose, treat, or prevent any medical-related symptoms. The
Fludioxinil (131341-86-1)	-	0.0450	0.360	0.4	(111988-49-9)					statements and results herein have
Hexythiazox (78587-05-0)	-	0.0450	0.360	1	Thiamethoxam (153719-23-4)	-	0.0450	0.360	0.2	not been approved and/or
Imazalil (35554-44-0)	-	0.0450	0.360	0.2	Trifloxystrobin					endorsed by the FDA.
Imidacloprid (138261-41-3)	-	0.0450	0.360	0.4	(141517-21-7)	-	0.0450	0.360	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 Pesticide Pesticide** Synonym(s) Synonym(s) Synonym(s) Cyfluthrin Propiconazole Baythroid Myclobutanil Systhane Tilt Baygon DDVP Dichlorvos Naled Dibrom Propoxur Ethoprophos Prophos Phosmet Imidan



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

Analysis Date/Time: 04/25/2023 1726 (ICP/OES) Analysis Date/Time: - (DMA) Analyst: KF			<b>Method:</b> ICP/OES <b>Instrument:</b> Agilent 720-ES		<b>Deviations from SOP:</b> S 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	91.0	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.

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# **CERTIFICATE OF ANALYSIS (SAMPLE ID: SA35045)**

Testing Location:	Customer ID: 2168	Sample ID: SA35045	Sample Type: Primary
Arkansas	<b>River Valley Relief MIPS</b>	Lot Number:	Matrix: Concentrate
232 S. Broadview St.	5601 Old Greenwood Rd Suite C	M00065C13242740388	Mass: 4g
Greenbrier, AR 72058	Fort Smith, AR 72903	Production Run:	Date Collected: 04/24/2023
License: ADA 05_H273	License: 00065C	E20230417BBCLBa01	Date Received: 04/24/2023
Cultivar (Strain) or Sample	<b>Date Completed:</b> 05/02/2023		

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

Analysis Date/Time: 2023042 Analyst: PW		ardy Diagnostics Compact t: Thermo Incubator	Dry Deviations from SOP: 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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