







SUMMARY OF ANALYSIS (SAMPLE ID: SA33697)

Testing Location:	Customer ID: 2168	Order ID: OR10217	Sample Type: Primary
Arkansas	River Valley Relief MIPS	Lot Number:	Matrix: Concentrate
232 S. Broadview St.	5601 Old Greenwood Rd Suite C	M00065C13247906441	Mass: 4g
Greenbrier, AR 72058	Fort Smith, AR 72903	Production Run:	Date Collected: 12/14/2022
License: ADH 113	License: 00065C	E20221122D35HLR01	Date Received: 12/14/2022
Cultivar (Strain) or Sample Do	Date Completed: 12/21/2022		

*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.

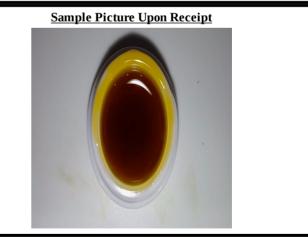
Moisture Content (%)	Water Activity (aw)	PASS/FAIL
Not Tested	Not Tested	PASS

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.

<u>Cannabinoids (Top 3)</u>	<u>(%)</u>	mg/g
Δ9-ТНС	29.5	295
THCA	28.1	281
CBGA	4.14	41.4
TOTAL CBD	0.495	4.95
TOTAL THC	54.1	541
TOTAL CANNABINOIDS	65.6	656
<u>Terpenes (Top 5)</u>	<u>(%)</u>	hā/ā
<u>Terpenes (Top 5)</u> β-Myrcene	<u>(%)</u> 2.50	<mark>µg/g</mark> 25000
β-Myrcene	2.50	25000
β-Myrcene d-Limonene	2.50 1.82	25000 18200
β-Myrcene d-Limonene β-Caryophyllene	2.50 1.82 1.23	25000 18200 12300

Contaminants	PASS/FAIL
Heavy Metals:	PASS
Microbiology:	PASS
Pesticides:	PASS
Residual Solvents:	PASS





Scan the QR code to verify results.

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The statements and results herein have not been approved and/or endorsed by the FDA.



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CERTIFICATE OF ANALYSIS (SAMPLE ID: SA33697)

Testing Location:	Customer ID: 2168	Order ID: OR10217	Sample Type: Primary
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Cultivar (Strain) or Sample	Date Completed: 12/21/2022		

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

Analysis Date/Time: 12/15/2022 2024 Analyst: PW Method: HPLC/DAD Instrument: Agilent 1100

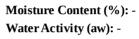
5					0		
<u>Cannabinoid</u>	<u>Result</u> (%)	<u>UM</u> (+/-%)	<u>Result</u> (mg/g)	LOQ (mg/g)	<u>Result</u> (mg/ mL)	<u>Per</u> Serving (mg)	<u>Per</u> g <u>Unit</u> (<u>mg)</u>
CBC	-	-	-	2.52	-	-	-
CBCA	0.935	0.0841	9.35	2.52	-	9.35	9.35
CBD	-	-	-	2.52	-	-	-
CBDA	0.565	0.0508	5.65	2.52	-	5.65	5.65
CBDV	-	-	-	2.52	-	-	-
CBDVA	-	-	-	2.52	-	-	-
CBG	1.89	0.170	18.9	2.52	-	18.9	18.9
CBGA	4.14	0.373	41.4	2.52	-	41.4	41.4
CBL	-	-	-	2.52	-	-	-
CBN	-	-	-	2.52	-	-	-
CBNA	-	-	-	2.52	-	-	-
Δ9-ΤΗC	29.5	2.65	295	2.52	-	295	295
$\Delta 8$ -THC	-	-	-	2.52	-	-	-
THCA	28.1	2.53	281	2.52	-	281	281
THCV	-	-	-	2.52	-	-	-
THCVA	0.488	0.0439	4.88	2.52	-	4.88	4.88
TOTAL	65.6	5.90	656		-	656	656
TOTAL CBC	0.820	0.0738	8.20		-	8.20	8.20
TOTAL CBD	0.495	0.0446	4.95		-	4.95	4.95
TOTAL CBDV	-	-	-		-	-	-
TOTAL CBG	5.53	0.498	55.3		-	55.3	55.3
TOTAL CBN	-	-	-		-	-	-
TOTAL THC	54.1	4.87	541		-	541	541
TOTAL THCV	0.423	0.0381	4.23		-	4.23	4.23

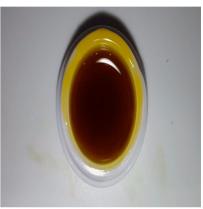
* CBCA, CBDVA, CBL, CBNA, and THCVA are in process of being added to our accreditation scope.

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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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) + Δ 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











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Cultivar (Strain) or Sample	Date Completed: 12/21/2022		

Analysis Date/Time:12/18/2022 1719 Analyst: KF

TERPENOID PROFILE

Method: GC/MS Instrument: Agilent 7890/5975

Deviations from SOP: None

<u>Terpene</u>	<u>Result</u> (µg/g)	<u>Result</u> (%)	
α-Bisabolol	9320	0.932	
Camphene	782	0.0782	
δ-3-Carene	567	0.0567	
β-Caryophyllene	12300	1.23	
Caryophyllene oxide	390	0.0390	
p-Cymene	-	-	
Eucalyptol	-	-	
Geraniol	-	-	
Guaiol	-	-	Abbreviations: GC - Gas
α-Humulene	6040	0.604	Chromatography, MS - Mass
Isopulegol	-	-	Spectrometry, RL - Reporting Limit
d-Limonene	18200	1.82	This information is provided as a servic and makes no claims of efficacy and/or
Linalool	3700	0.370	safety of this product.
β-Myrcene	25000	2.50	Results are applicable only for the sample(s) analyzed and for the specific
cis-Nerolidol	-	-	analysis conducted.
trans-Nerolidol	1280	0.128	This report is for informational purpose
α-Ocimene	-	-	only and should not be used to diagnose treat, or prevent any
β-Ocimene	1060	0.106	medical-related symptoms.
α-Pinene	1660	0.166	The statements and results herein have not been approved and/or endorsed by
β-Pinene	3260	0.326	the FDA.
α-Terpinene	-	-	
γ-Terpinene	662	0.0662	
Terpinolene	1920	0.192	"-" Not detected above RL.
TOTAL	86100	8.61	Reporting Limit (µg/

Kyle W. Felling, Ph.D. Laboratory Director











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

Analysis Date/Time:	nalysis Date/Time: 12/16/2022 0146 Method: HS/GC/MS		Deviations from SOP:							
Analyst: KF				Ι	nstrument: Agilent 78	90/5975	5	N		
<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)	<u>LOQ</u> (µg/g)	<u>Action</u> Level (µg/g)	
Acetone (67-64-1)	-	37.4	74.9	5000	n-Heptane (142-82-5)	-	37.4	74.9	5000	
Acetonitrile (75-5-8)	-	37.4	74.9	410	n-Hexane (110-54-3)	-	13.1	26.2	290	
Benzene (71-43-2)	-	0.374	0.749	2	Isobutane (75-28-5)	-	37.4	74.9	5000	
n-Butane (106-97-2)	-	37.4	74.9	5000	Isopropanol (67-63-0)	-	37.4	74.9	5000	
1-Butanol (71-36-3)	-	37.4	74.9	5000	Isopropyl acetate	_	37.4	74.9	5000	
2-Butanol (78-92-2)	-	37.4	74.9	5000	(108-21-4)		57.4	74.5	5000	
2-Butanone (78-93-3)	-	37.4	74.9	5000	Isopropyl benzene (98-82-8)	-	3.74	7.49	70	
Cyclohexane (110-82-7)	-	37.4	74.9	3880	(30-02-0) Methanol (67-56-1)		37.4	74.9	3000	Color Key
1,2-Dimethoxyethane	_	3.74	7.49	100	2-Methylbutane (78-78-4)		37.4	74.9	5000	
(110-71-4) N,N-Dimethylacetamide		37.4	74.9	1090	Methylene chloride (75-9-2)		37.4	74.9	600	RESULT < AL RESULT > AL
(127-19-5) 2,2-Dimethylbutane		13.1	26.2	290	2-Methylpentane (107-83-5)	-	13.1	26.2	290	"DET" detected less than LOQ
(75-83-2) 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)	-	37.4	74.9	5000	LOD
N,N-Dimethylformamide		07.4			1-Pentanol (71-41-0)	-	37.4	74.9	5000	"*" V-l
(68-12-2)	-	37.4	74.9	880	n-Propane (74-98-6)	-	37.4	74.9	5000	"*" - o,m,p-Xylene and Ethylbenzene
Dimethylsulfoxide (67-68-5)	-	37.4	74.9	5000	1-Propanol (71-23-8)	-	37.4	74.9	5000	Action levels are
1,4-Dioxane (123-91-1)	-	37.4	74.9	380	Pyridine (110-86-1)	-	13.1	26.2	200	referenced from the State of
Ethanol (64-17-5)	-	37.4	74.9	5000	Tetrahydrofuran (109-99-9)	-	37.4	74.9	720	Arkansas
2-Ethoxyethanol (110-80-5)	-	13.1	26.2	160	Tetramethylene sulfone (126-33-0)	-	13.1	26.2	160	MMJ testing
Ethyl ether (60-29-7)	-	37.4	74.9	5000	Toluene (108-88-3)	_	37.4	74.9	890	guidelines.
Ethyl acetate (141-78-6)	-	37.4	74.9	5000	o-Xylene (95-47-6)	_	37.4	74.9	2170	A value of "-"
Ethyl benzene (100-41-4)	-	37.4	74.9	2170	m,p-Xylene (108-38-3 or					for the action level
Ethylene glycol (107-21-1)	-	37.4	74.9	620	106-42-3)		37.4	74.9	2170	means that analyte is not currently
Ethylene oxide (75-21-8)	-	3.74	7.49	50	Xylenes* (1330-20-7)	-	43.3	86.7	2170	regulations referenced above.
Solvent		Synonym(s	5)		Solvent	5	Synonym(s)			
Acetonitrile		Methyl Cya	nide, ACN		Ethylene glycol	1	,2-Ethanediol			
1-Butanol		n-Butanol,	Butyl Alcol	hol	Isobutane	2	2-Methylpropa	ine		
2-Butanol		sec-Butyl a	lcohol		Isopropanol	2	2-Propanol, IP/	A		
2-Butanone		Methyl ethy	yl ketone, N	ſΕK	Isopropyl Acetate	A	Acetic acid iso	propyl este	r	
1,2-Dimethoxyethane		Monoglym	e		Methanol	Ν	Methyl alcoho	1		
2,3-Dimethylbutane		Neohexane			2-Methylbutane	I	sopentane			
2,3-Dimethylbutane		Diisopropy	rl		Methylene chloride	Ι	Dichlorometha	ine		
N,N-Dimethylformamide		DMF			2-Methylpentane	I	sohexane			
Dimethysufoxide		DMSO			1-Pentanol	n	n-Amyl alcoho	ol		
2-Ethoxyethanol		Cellosolve,	Ethyl glyc	ol	1-Propanol	F	Propyl alcohol			
Ethyl ether		Diethyl eth	er, Ether		Tetrahydrofuran	Т	ГНF			
Ethyl acetate		EtOAc			Tetramethylene sulfone	S	Sulfolane			
Ethyl benzene		Phenyletha	ne		Xylene	Ι	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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PESTICIDES PROFILE (SOP: SOP-PEST-001)

Analysis Date/Time: 12/18/2022 1445 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)	-	0.0191	0.153	0.5	Kresoxim-methyl	_	0.0191	0.153	0.4	
Acephate (30560-19-1)	-	0.0191	0.153	0.4	(143390-89-0)					
Acequinocyl (57960-19-7)	-	0.0191	0.153	2	Malathion (121-75-5)	-	0.0191	0.153	0.2	
Acetamiprid (135410-20-7)	-	0.0191	0.153	0.2	Metalaxyl (57837-19-1) Methiocarb (2032-65-7)	-	0.0191 0.0191	0.153 0.153	0.2 0.2	Color Key
(133410-20-7) Aldicarb (116-06-3)	-	0.0191	0.153	0.4	Methomyl (16752-77-5)	_	0.0191	0.153	0.2	RESULT < AL
Azoxystrobin (131860-33-8)	-	0.0191	0.153	0.2	Methyl parathion (298-0-0)	-	0.0191	0.153	0.2	RESULT > AL
Bifenazate (149877-41-8)	-	0.0191	0.153	0.2	MGK 264 (113-48-4)	-	0.0191	0.153	0.2	"DET" detected less than LOQ
Bifenthrin (82657-04-3)	-	0.0191	0.153	0.2	Myclobutanil		0.0191	0.153	0.2	"-" not detected above
Boscalid (188425-85-6)	-	0.0191	0.153	0.4	(88671-89-0)	-	0.0191	0.155	0.2	LOD
Carbaryl (63-25-2)	-	0.0191	0.153	0.2	Naled (300-76-5)	-	0.0191	0.153	0.5	
Carbofuran (1563-66-2)	-	0.0191	0.153	0.2	Oxamyl (23135-22-0)	-	0.0191	0.153	1	Permethrins measured as the cumulative residue of the <i>cis</i> - and
Chlorantraniliprole (800008-45-7)	-	0.0191	0.153	0.2	Paclobutrazol (76738-62-0)	-	0.0191	0.153	0.4	<i>trans</i> - permethrin isomers.
Chlorfenapyr		0.0191	0.150	1	Permethrins (52645-53-1)	-	0.0191	0.153	0.2	Pyrethrins measured as the cumulative residue of the
(122453-73-0)	-	0.0191	0.153	1	Phosmet (732-11-6)	-	0.0191	0.153	0.2	pyrethrin I, cinerin I, and jasmolin
Chlorpyrifos (2921-88-2)	-	0.0191	0.153	0.2	Piperonyl butoxide	_	0.0191	0.153	2	I isomers.
Clofentezine (74115-24-5)	-	0.0191	0.153	0.2	(51-03-6)		0.0101	0.150	0.2	Action levels are referenced from
Cyfluthrin (68359-37-5)	-	0.0191	0.153	1	Prallethrins (2331-36-9)	-	0.0191	0.153	0.2	the
Cypermethrin (52315-07-8)	-	0.0191	0.153	1	Propiconazole (60207-90-1))	-	0.0191	0.153	0.4	State of Arkansas MMJ testing guidelines.
Daminozide (1596-84-5)	-	0.0191	0.153	1	Propoxur (114-26-1)	-	0.0191	0.153	0.2	A value of "-" for the action level
DDVP (62-73-7)	-	0.0191	0.153	0.1	Pyrethrins (8003-34-7)	-	0.0191	0.153	1	means that analyte is not
Diazinon (333-41-5)	-	0.0191	0.153	0.2	Pyridaben (96489-71-3)	-	0.0191	0.153	0.2	currently regulated by the regulations referenced above.
Dimethoate (60-51-5)	-	0.0191	0.153	0.2	Spinosad (168316-95-8)	-	0.0191	0.153	0.2	
Ethoprophos (13194-48-4)	-	0.0191	0.153	0.2	Spiromesifen (283594-90-1)	-	0.0191	0.153	0.2	Disclaimer: This information is
Etofenprox (80844-07-1)	-	0.0191	0.153	0.4	Spirotetramat					provided as a service and makes no claims of efficacy and/or safety
Etoxazole (153233-91-1)	-	0.0191	0.153	0.2	(203313-25-1)	-	0.0191	0.153	0.2	of this product. Results are
Fenoxycarb (72490-01-8)	-	0.0191	0.153	0.2	Spiroxamine	_	0.0191	0.153	0.4	applicable only for the sample(s) analyzed and for the specific
(E)-Fenpyroximate (134098-61-6)	-	0.0191	0.153	0.4	(118134-30-8) Tebuconazole		0.0191	0.153	0.4	analysis conducted. This report is for informational purposes only
Fipronil (120068-37-3)	-	0.0191	0.153	0.4	(80443-41-0)		0.0191	0.155	0.4	and should not be used to
Flonicamid (158062-67-0)	-	0.0191	0.153	1	Thiacloprid	-	0.0191	0.153	0.2	diagnose, treat, or prevent any medical-related symptoms. The
Fludioxinil (131341-86-1)	-	0.0191	0.153	0.4	(111988-49-9) Thiamethoxam					statements and results herein have
Hexythiazox (78587-05-0)	-	0.0191	0.153	1	(153719-23-4)	-	0.0191	0.153	0.2	not been approved and/or
Imazalil (35554-44-0)	-	0.0191	0.153	0.2	Trifloxystrobin		0.0101	0.150	0.2	endorsed by the FDA.
Imidacloprid (138261-41-3)	-	0.0191	0.153	0.4	(141517-21-7)		0.0191	0.153	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	<u>Synonym(s)</u>	Pesticide	Synonym(s)
Cyfluthrin	Baythroid	Myclobutanil	Systhane	Propiconazole	Tilt
DDVP	Dichlorvos	Naled	Dibrom	Propoxur	Baygon
Ethoprophos	Prophos	Phosmet	Imidan		



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Greenbrier, AR 72058	Fort Smith, AR 72903	Production Run:	Date Collected: 12/14/2022
License: ADH 113	License: 00065C	E20221122D35HLR01	Date Received: 12/14/2022
Cultivar (Strain) or Sample	Date Completed: 12/21/2022		

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

Analysis Date/Time: 12/21/2022 0757 (ICP/OES) Analysis Date/Time: - (DMA) Analyst: KF			Method: ICP/OES Instrument: Agilent 720-ES		Deviations from SOP: ES 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)	-	56.3	89.1	200	
Cadmium (Cd)	-	56.3	89.1	200	
Lead (Pb)	-	56.3	89.1	500	
Mercury (Hg)	-	56.3	89.1	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: SA33697)

Testing Location:	Customer ID: 2168	Sample ID: SA33697	Sample Type: Primary		
Arkansas	River Valley Relief MIPS	Lot Number:	Matrix: Concentrate		
232 S. Broadview St.	5601 Old Greenwood Rd Suite C	M00065C13247906441	Mass: 4g		
Greenbrier, AR 72058	Fort Smith, AR 72903	Production Run:	Date Collected: 12/14/2022		
License: ADA 05_H273	License: 00065C	E20221122D35HLR01	Date Received: 12/14/2022		
Cultivar (Strain) or Sample Description: Divinity 35 Hybrid Live Resin .5g CartDate Completed: 12/21/2022					

MICROBIOLOGICAL PROFILE (SOP: SOP-Micro-001)

Analysis Date/Time: 20221216 Analyst: PW		Hardy Diagnostics CompactDry nt: Thermo Incubator	Deviations from SOP: None
<u>Bacteria/Microbe</u>	<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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