







SUMMARY OF ANALYSIS (SAMPLE ID: SA33691)

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	M00065C13247301526	Mass: 4g
Greenbrier, AR 72058	Fort Smith, AR 72903	Production Run:	Date Collected: 12/14/2022
License: ADH 113	License: 00065C	E20221201BJOHLS01	Date Received: 12/14/2022
Cultivar (Strain) or Sample D	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.

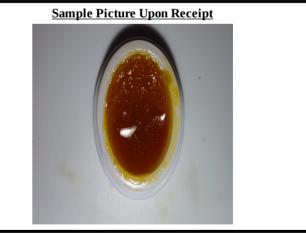
Moisture Content (%)	Water Activity (aw)	PASS/FAIL
Not Tested	Not Tested	PASS

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>	<u>mg</u> /g
THCA	59.9	599
Δ9-ТНС	3.98	39.8
THCVA	3.22	32.2
TOTAL CBD	-	-
TOTAL THC	56.5	565
TOTAL CANNABINOIDS	70.0	700
<u>Terpenes (Top 5)</u>	<u>(%)</u>	<u>µg/g</u>
<u>Terpenes (Top 5)</u> Terpinolene	<u>(%)</u> 2.38	<u>µg/g</u> 23800
Terpinolene	2.38	23800
Terpinolene β-Myrcene	2.38 1.24	23800 12400
Terpinolene β-Myrcene d-Limonene	2.38 1.24 0.672	23800 12400 6720

<u>Contaminants</u>	PASS/FAIL
Heavy Metals:	PASS
Microbiology:	PASS
Pesticides:	PASS
Residual Solvents:	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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The statements and results herein have not been approved and/or endorsed by the FDA.

Kyle W. Felling, Ph.D. aboratory Director

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CERTIFICATE OF ANALYSIS (SAMPLE ID: SA33691)

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

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

Analysis Date/Time: 12/15/2022 1856 Analyst: PW Method: HPLC/DAD Instrument: Agilent 1100

<u>Cannabinoid</u>	<u>Result</u> (%)	<u>UM</u> (+/-%)	<u>Result</u> (mg/g)	LOQ (mg/g)	<u>Result</u> (<u>mg/</u> <u>mL</u>)	<u>Per</u> Serving <u>(mg)</u>	<u>Per</u> g <u>Unit</u> (mg)
CBC	-	-	-	2.36	-	-	-
CBCA	-	-	-	2.36	-	-	-
CBD	-	-	-	2.36	-	-	-
CBDA	-	-	-	2.36	-	-	-
CBDV	-	-	-	2.36	-	-	-
CBDVA	-	-	-	2.36	-	-	-
CBG	-	-	-	2.36	-	-	-
CBGA	2.93	0.264	29.3	2.36	-	29.3	29.3
CBL	-	-	-	2.36	-	-	-
CBN	-	-	-	2.36	-	-	-
CBNA	-	-	-	2.36	-	-	-
Δ9-ΤΗC	3.98	0.359	39.8	2.36	-	39.8	39.8
$\Delta 8$ -THC	-	-	-	2.36	-	-	-
THCA	59.9	5.39	599	2.36	-	599	599
THCV	-	-	-	2.36	-	-	-
THCVA	3.22	0.289	32.2	2.36	-	32.2	32.2
TOTAL	70.0	6.30	700		-	700	700
TOTAL CBC	-	-			-	-	-
TOTAL CBD	-	-	-		-	-	-
TOTAL CBDV	-	-	-		-	-	-
TOTAL CBG	2.57	0.232	25.7		-	25.7	25.7
TOTAL CBN	-	-	-		-	-	-
TOTAL THC	56.5	5.08	565		-	565	565
TOTAL THCV	2.79	0.251	27.9		-	27.9	27.9

* 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) + 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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Greenbrier, AR 72058	Fort Smith, AR 72903	Production Run:	Date Collected: 12/14/2022
License: ADH 113	License: 00065C	E20221201BJOHLS01	Date Received: 12/14/2022
Cultivar (Strain) or Sample	Date Completed: 12/21/2022		

TERPENOID PROFILE

Analysis Date/Time:1 Analyst: KF	2/18/2022 1509		ethod: GC/MS strument: Agilent 7890/5975	Deviations from SOP: None		
<u>Terpene</u>	<u>Result</u> (µg/g)	<u>Result</u> (%)				
α-Bisabolol	-	-				
Camphene	464	0.0464				
δ-3-Carene	1170	0.117				
β-Caryophyllene	4740	0.474				
Caryophyllene oxide	-	-				
p-Cymene	-	-				
Eucalyptol	-	-				
Geraniol	-	-				
Guaiol	-	-		Abbreviations: GC - Gas		
α-Humulene	1800	0.180		Chromatography, MS - Mass		
Isopulegol	-	-		Spectrometry, RL - Reporting Limit		
d-Limonene	6720	0.672		This information is provided as a serv and makes no claims of efficacy and/o		
Linalool	3020	0.302		safety of this product.		
β-Myrcene	12400	1.24		Results are applicable only for the sample(s) analyzed and for the specifi		
cis-Nerolidol	-	-		analysis conducted.		
trans-Nerolidol	516	0.0516		This report is for informational purpo only and should not be used to diagno		
α-Ocimene	270	0.0270		treat, or prevent any		
β-Ocimene	5570	0.557		medical-related symptoms.		
α-Pinene	1420	0.142		The statements and results herein have not been approved and/or endorsed by		
β-Pinene	2790	0.279		the FDA.		
α-Terpinene	1410	0.141	1			
γ-Terpinene	1010	0.101				
Terpinolene	23800	2.38		"-" Not detected above RL.		
TOTAL	67100	6.71		Reporting Limit (µ		



on is provided as a service claims of efficacy and/or product.

for informational purposes ld not be used to diagnose, nt any

> ed above RL Reporting Limit (µg/g): 89.9













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

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

Analysis Date/Time: 12/15/2022 2239				Method: HS/GC/MS			Deviations from SOP: None			
Analyst: KF					nstrument: Agilent 78	90/5975				
<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)	LOD (µg/g)	<u>LOQ</u> (µg/g)	<u>Action</u> Level (µg/g)	
Acetone (67-64-1)	-	39.4	78.9	5000	n-Heptane (142-82-5)	-	39.4	78.9	5000	
Acetonitrile (75-5-8)	-	39.4	78.9	410	n-Hexane (110-54-3)	-	13.8	27.6	290	
Benzene (71-43-2)	-	0.394	0.789	2	Isobutane (75-28-5)	-	39.4	78.9	5000	
n-Butane (106-97-2)	-	39.4	78.9	5000	Isopropanol (67-63-0)	-	39.4	78.9	5000	
1-Butanol (71-36-3)	-	39.4	78.9	5000	Isopropyl acetate		39.4	78.9	5000	
2-Butanol (78-92-2)	-	39.4	78.9	5000	(108-21-4)		55.4	70.5	3000	
2-Butanone (78-93-3)	-	39.4	78.9	5000	Isopropyl benzene	-	3.94	7.89	70	
Cyclohexane (110-82-7)	-	39.4	78.9	3880	(98-82-8)		20.4	70.0	2000	Color Key
1,2-Dimethoxyethane		3.94	7.89	100	Methanol (67-56-1)	-	39.4	78.9	3000	
(110-71-4)	-	3.94	7.09	100	2-Methylbutane (78-78-4)	-	39.4	78.9	5000	RESULT < AL
N,N-Dimethylacetamide (127-19-5)	-	39.4	78.9	1090	Methylene chloride (75-9-2)	-	39.4	78.9	600	RESULT > AL
2,2-Dimethylbutane (75-83-2)	-	13.8	27.6	290	2-Methylpentane (107-83-5)	-	13.8	27.6	290	"DET" detected less than LOQ
2,3-Dimethylbutane		13.8	27.6	290	3-Methylpentane (96-10-0)	-	13.8	27.6	290	"-" not detected above
(79-29-8)		15.0	27.0	250	n-Pentane (109-66-0)	-	39.4	78.9	5000	LOD
N,N-Dimethylformamide	_	39.4	78.9	880	1-Pentanol (71-41-0)	-	39.4	78.9	5000	"*" - o,m,p-Xylene and
(68-12-2)					n-Propane (74-98-6)	-	39.4	78.9	5000	Ethylbenzene
Dimethylsulfoxide (67-68-5)	-	39.4	78.9	5000	1-Propanol (71-23-8)	-	39.4	78.9	5000	Action levels are
1,4-Dioxane (123-91-1)	_	39.4	78.9	380	Pyridine (110-86-1)	-	13.8	27.6	200	Action levels are referenced from the State of
Ethanol (64-17-5)	_	39.4	78.9	5000	Tetrahydrofuran (109-99-9)	-	39.4	78.9	720	Arkansas
2-Ethoxyethanol (110-80-5)	_	13.8	27.6	160	Tetramethylene sulfone	_	13.8	27.6	160	MMJ testing
Ethyl ether (60-29-7)	_	39.4	78.9	5000	(126-33-0)					guidelines.
Ethyl acetate (141-78-6)	_	39.4	78.9	5000	Toluene (108-88-3)	-	39.4	78.9	890	A value of "-"
Ethyl benzene (100-41-4)	_	39.4	78.9	2170	o-Xylene (95-47-6)	-	39.4	78.9	2170	for the action level
Ethylene glycol (107-21-1)		39.4	78.9	620	m,p-Xylene (108-38-3 or 106-42-3)	-	39.4	78.9	2170	means that analyte
Ethylene oxide (75-21-8)		3.94	7.89	50	Xylenes* (1330-20-7)		43.3	86.7	2170	is not currently
5 X 2		•		50	<i>,</i>		•	00.7	2170	regulated by the regulations referenced above.
<u>Solvent</u>		Synonym(s			<u>Solvent</u>		ynonym(s)			
Acetonitrile		Methyl Cya			Ethylene glycol		2-Ethanedio			
1-Butanol		n-Butanol,	5	hol	Isobutane		Methylpropa			
2-Butanol		sec-Butyl a			Isopropanol		Propanol, IP			
2-Butanone		Methyl eth		1EK	Isopropyl Acetate		cetic acid iso		r	
1,2-Dimethoxyethane		Monoglym			Methanol		ethyl alcoho	1		
2,3-Dimethylbutane		Neohexane			2-Methylbutane		opentane			
2,3-Dimethylbutane		Diisopropy	1		Methylene chloride		ichlorometha	ane		
N,N-Dimethylformamide		DMF			2-Methylpentane		ohexane			
Dimethysufoxide		DMSO			1-Pentanol		Amyl alcoho			
2-Ethoxyethanol		Cellosolve,	Ethyl glyc	ol	1-Propanol		opyl alcohol			
Ethyl ether		Diethyl eth	er, Ether		Tetrahydrofuran	T	HF			
Ethyl acetate		EtOAc			Tetramethylene sulfone	Su	ılfolane			
Ethyl benzene		Phenyletha	ne		Xylene	D	imethylbenz	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 I	Date Completed: 12/21/2022		

Analysis Date/Time: 12/18/2022 1313 Analyst: KF

PESTICIDES PROFILE (SOP: SOP-PEST-001)

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> <u>Level</u> (µg/g)	
Abamectin (71751-41-2)	-	0.0177	0.142	0.5	Kresoxim-methyl		0.0177	0.142	0.4	
Acephate (30560-19-1)	-	0.0177	0.142	0.4	(143390-89-0)					
Acequinocyl (57960-19-7)	-	0.0177	0.142	2	Malathion (121-75-5)		0.0177	0.142	0.2	
Acetamiprid	_	0.0177	0.142	0.2	Metalaxyl (57837-19-1)		0.0177	0.142	0.2	
(135410-20-7)					Methiocarb (2032-65-7)	-	0.0177	0.142	0.2	<u>Color Key</u>
Aldicarb (116-06-3)	-	0.0177	0.142	0.4	Methomyl (16752-77-5)	-	0.0177	0.142	0.4	RESULT < AL
Azoxystrobin (131860-33-8)	-	0.0177	0.142	0.2	Methyl parathion (298-0-0)	-	0.0177	0.142	0.2	RESULT > AL
Bifenazate (149877-41-8)	-	0.0177	0.142	0.2	MGK 264 (113-48-4)	-	0.0177	0.142	0.2	"DET" detected less than LOQ
Bifenthrin (82657-04-3)	-	0.0177	0.142	0.2	Myclobutanil	-	0.0177	0.142	0.2	"-" not detected above
Boscalid (188425-85-6)	-	0.0177	0.142	0.4	(88671-89-0)		0.0455	0.4.40	0.5	LOD
Carbaryl (63-25-2)	-	0.0177	0.142	0.2	Naled (300-76-5)	-	0.0177	0.142	0.5	Permethrins measured as the
Carbofuran (1563-66-2)	-	0.0177	0.142	0.2	Oxamyl (23135-22-0)		0.0177	0.142	1	cumulative residue of the <i>cis</i> - and
Chlorantraniliprole (800008-45-7)	-	0.0177	0.142	0.2	Paclobutrazol (76738-62-0)	-	0.0177	0.142	0.4	trans- permethrin isomers.
Chlorfenapyr	_	0.0177	0.142	1	Permethrins (52645-53-1)	-	0.0177	0.142	0.2	Pyrethrins measured as the cumulative residue of the
(122453-73-0)			0.142		Phosmet (732-11-6)		0.0177	0.142		pyrethrin I, cinerin I, and jasmolin
Chlorpyrifos (2921-88-2)	-	0.0177	0.142	0.2	Piperonyl butoxide (51-03-6)		0.0177	0.142	2	I isomers.
Clofentezine (74115-24-5)	-	0.0177	0.142	0.2	(51-03-0) Prallethrins (2331-36-9)		0.0177	0.142	0.2	Action levels are referenced from
Cyfluthrin (68359-37-5)	-	0.0177	0.142	1	Propiconazole		0.0177	0.142	0.2	the
Cypermethrin (52315-07-8)	-	0.0177	0.142	1	(60207-90-1))	-	0.0177	0.142	0.4	State of Arkansas MMJ testing guidelines.
Daminozide (1596-84-5)	-	0.0177	0.142	1	Propoxur (114-26-1)	-	0.0177	0.142	0.2	A value of "-" for the action level
DDVP (62-73-7)	-	0.0177	0.142	0.1	Pyrethrins (8003-34-7)	-	0.0177	0.142	1	means that analyte is not
Diazinon (333-41-5)	-	0.0177	0.142	0.2	Pyridaben (96489-71-3)	-	0.0177	0.142	0.2	currently regulated by the regulations referenced above.
Dimethoate (60-51-5)	-	0.0177	0.142	0.2	Spinosad (168316-95-8)	-	0.0177	0.142	0.2	regulations referenced above.
Ethoprophos (13194-48-4)	-	0.0177	0.142	0.2	Spiromesifen (283594-90-1)	-	0.0177	0.142	0.2	Disclaimer: This information is
Etofenprox (80844-07-1)	-	0.0177	0.142	0.4	(2033)4-50-1) Spirotetramat					provided as a service and makes no claims of efficacy and/or safety
Etoxazole (153233-91-1)	-	0.0177	0.142	0.2	(203313-25-1)	-	0.0177	0.142	0.2	of this product. Results are
Fenoxycarb (72490-01-8)	-	0.0177	0.142	0.2	Spiroxamine		0.0177	0.142	0.4	applicable only for the sample(s) analyzed and for the specific
(E)-Fenpyroximate (134098-61-6)	-	0.0177	0.142	0.4	(118134-30-8) Tebuconazole	-	0.0177	0.142	0.4	analysis conducted. This report is for informational purposes only
Fipronil (120068-37-3)	-	0.0177	0.142	0.4	(80443-41-0)		0.0177	0.142	0.4	and should not be used to
Flonicamid (158062-67-0)	-	0.0177	0.142	1	Thiacloprid	-	0.0177	0.142	0.2	diagnose, treat, or prevent any medical-related symptoms. The
Fludioxinil (131341-86-1)	-	0.0177	0.142	0.4	(111988-49-9)					statements and results herein have
Hexythiazox (78587-05-0)	-	0.0177	0.142	1	Thiamethoxam (153719-23-4)	-	0.0177	0.142	0.2	not been approved and/or
Imazalil (35554-44-0)	-	0.0177	0.142	0.2	Trifloxystrobin		0.0/ ==	0.4.15	0.5	endorsed by the FDA.
Imidacloprid (138261-41-3)	-	0.0177	0.142	0.4	(141517-21-7)		0.0177	0.142	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 Baythroid Myclobutanil Systhane Tilt Propiconazole DDVP Baygon Dichlorvos Naled Dibrom Propoxur Ethoprophos Prophos Phosmet Imidan



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License: ADH 113	License: 00065C	E20221201BJOHLS01	Date Received: 12/14/2022
Cultivar (Strain) or Sample	Date Completed: 12/21/2022		

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

Analysis Date/T Analysis Date/T Analyst: KF	ime: 12/21/2022 0 ime: - (DMA)	734 (ICP/OES)		hod: ICP/OES rument: Agilent 720-ES	Deviations from SOP: 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)	-	54.9	86.9	200	
Cadmium (Cd)	-	54.9	86.9	200	
Lead (Pb)	-	54.9	86.9	500	
Mercury (Hg)	-	54.9	86.9	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: SA33691)

Testing Location:	Customer ID: 2168	Sample ID: SA33691	Sample Type: Primary
Arkansas	River Valley Relief MIPS	Lot Number:	Matrix: Concentrate
232 S. Broadview St.	5601 Old Greenwood Rd Suite C	M00065C13247301526	Mass: 4g
Greenbrier, AR 72058	Fort Smith, AR 72903	Production Run:	Date Collected: 12/14/2022
License: ADA 05_H273	License: 00065C	E20221201BJOHLS01	Date Received: 12/14/2022
Cultivar (Strain) or Sample	Date Completed: 12/21/2022		

MICROBIOLOGICAL PROFILE (SOP: SOP-Micro-001)

Analysis Date/Time: 2022121 Analyst: PW		ardy Diagnostics CompactDry t: Thermo Incubator	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		and the second

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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