







### SUMMARY OF ANALYSIS (SAMPLE ID: SA34412)

Testing Location:	Customer ID: 2168	Order ID: OR10305	Sample Type: Primary
Arkansas	<b>River Valley Relief MIPS</b>	Lot Number:	Matrix: Concentrate
232 S. Broadview St.	5601 Old Greenwood Rd Suite C	M00065C13240404467	Mass: 4g
Greenbrier, AR 72058	Fort Smith, AR 72903	Production Run:	<b>Date Collected:</b> 02/13/2023
License: ADH 113	License: 00065C	E20230207GVALC01	Date Received: 02/13/2023
Cultivar (Strain) or Sample I	<b>Date Completed:</b> 02/17/2023		

\*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.

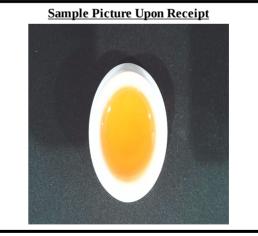
Moisture Content (%)	Water Activity (aw)	PASS/FAIL	
Not Tested	Not Tested	PASS	

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>
Δ9-ΤΗC	45.1	451
CBGA	2.60	26.0
CBG	1.39	13.9
TOTAL CBD	-	-
TOTAL THC	45.1	451
TOTAL CANNABINOIDS	50.6	506
<u>Terpenes (Top 5)</u>	<u>(%)</u>	µg∕g
<u>Terpenes (Top 5)</u> β-Caryophyllene	<u>(%)</u> 1.57	<b>µg/g</b> 15700
β-Caryophyllene	1.57	15700
β-Caryophyllene d-Limonene	1.57 1.36	15700 13600
β-Caryophyllene d-Limonene Linalool	1.57 1.36 0.897	15700 13600 8970

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

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.



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### **CERTIFICATE OF ANALYSIS (SAMPLE ID: SA34412)**

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Greenbrier, AR 72058	Fort Smith, AR 72903	Production Run:	Date Collected: 02/13/2023
License: ADH 113	License: 00065C	E20230207GVALC01	Date Received: 02/13/2023
Cultivar (Strain) or Sample	Date Completed: 02/17/2023		

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

Analysis Date/Time: 2/16/2023 1602 Analyst: PW Method: HPLC/DAD Instrument: Agilent 1100

<u>Cannabinoid</u>	<u>Result</u> (%)	<u>Result</u> (mg/g)	<u>LOD</u> (mg/g)	<u>LOQ</u> (mg/g)	<u>Result</u> (mg/ <u>mL)</u>	<u>Per</u> <u>Serving</u> (mg)	<u>Per</u> g <u>Unit</u> (mg)
CBC	0.251	2.51	0.404	0.942	-	2.51	2.51
CBCA	ND	ND	1.25	2.93	-	-	-
CBD	ND	ND	2.85	6.65	-	-	-
CBDA	ND	ND	1.05	2.45	-	-	-
CBDV	ND	ND	0.457	1.07	-	-	-
CBDVA	ND	ND	1.22	2.84	-	-	-
CBG	1.39	13.9	1.85	4.32	-	13.9	13.9
CBGA	2.60	26.0	1.32	3.09	-	26.0	26.0
CBL	0.615	6.15	2.14	4.99	-	6.15	6.15
CBN	ND	ND	0.981	2.29	-	-	-
CBNA	ND	ND	1.06	2.47	-	-	-
Δ9-ΤΗC	45.1	451	1.18	2.74	-	451	451
Δ8-THC	ND	ND	1.83	4.28	-	-	-
THCA	ND	ND	0.637	1.49	-	-	-
THCV	0.459	4.59	1.53	3.57	-	4.59	4.59
THCVA	0.173	1.73	0.489	1.14	-	1.73	1.73
TOTAL	50.6	506			-	506	506
TOTAL CBC	0.251	2.51			-	2.51	2.51
TOTAL CBD	-	-			-	-	-
TOTAL CBDV	-	-			-	-	-
TOTAL CBG	3.67	36.7			-	36.7	36.7
TOTAL CBN	-	-			-	-	-
TOTAL THC	45.1	451			-	451	451
TOTAL THCV	0.609	6.09			-	6.09	6.09

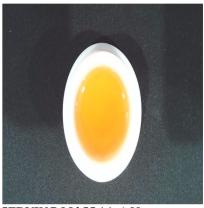
\* CBCA, CBDVA, CBL, CBNA, and THCVA are in process of being added to our accreditation scope.

*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

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.

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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

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# **CERTIFICATE OF ANALYSIS (SAMPLE ID: SA34412)**

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Greenbrier, AR 72058	Fort Smith, AR 72903	Production Run:	Date Collected: 02/13/2023
License: ADH 113	License: 00065C	E20230207GVALC01	Date Received: 02/13/2023
Cultivar (Strain) or Sample	Date Completed: 02/17/2023		

#### **TERPENOID PROFILE**

Analysis Date/Time:02/17/2023 0938 Analyst: KF			<b>lethod:</b> GC/MS <b>istrument:</b> Agilent 7890/5975	<b>Deviations from SOP:</b> None			
<u>Terpene</u>	<u>Result</u> (µg/g)	<u>Result</u> <u>(%)</u>					
α-Bisabolol	4230	0.423					
Camphene	792	0.0792					
δ-3-Carene	-	-					
β-Caryophyllene	15700	1.57					
Caryophyllene oxide	-	-					
p-Cymene	-	-					
Eucalyptol	-	-					
Geraniol	-	-					
Guaiol	-	-		Abbreviations: GC - Gas			
α-Humulene	6600	0.660		Chromatography, MS - Mass			
Isopulegol	-	-		Spectrometry, RL - Reporting Limit			
d-Limonene	13600	1.36		This information is provided as a service and makes no claims of efficacy and/or			
Linalool	8970	0.897		safety of this product.			
β-Myrcene cis-Nerolidol	5180	0.518 -	•	Results are applicable only for the sample(s) analyzed and for the specific analysis conducted.			
trans-Nerolidol α-Ocimene	3020	0.302	1	This report is for informational purposes only and should not be used to diagnose,			
β-Ocimene	- 493	- 0.0493	1	treat, or prevent any medical-related symptoms.			
α-Pinene	495 2160	0.0493		The statements and results herein have			
β-Pinene	2100	0.210		not been approved and/or endorsed by the FDA.			
α-Terpinene	-	-	· · · · · · · · · · · · · · · · · · ·				
γ-Terpinene	-	_					
Terpinolene	705	0.0705					
TOTAL	64300	6.43	<u> </u>	"-" Not detected above RL. <b>Reporting Limit (µg/g):</b> 4			













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Cultivar (Strain) or Sample D	<b>Date Completed:</b> 02/17/2023		

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

Analyst: KF Turnent: Agilent 7890/5975 Notif   Salvari Reading Logn	Analysis Date/Time: 7/14/2023 2208			Method: HS/GC/MS			<b>Deviations from SOP:</b>				
Right ResultRigh	Analyst: KF				Iı	nstrument: Agilent 789	0/5975	None			
According (17:5-54) 1 3.6.1 7.2.1 1.00 networe (10:6-53.) 1.2.6 7.2.1 5000   Bonzee (71:43-2) 3.6.1 7.2.1 5000 Bonzee (10:6-53.0) 3.6.1 7.2.1 5000   Labiana (71:36-3) 3.6.1 7.2.1 5000 Bonzee (10:6-2.4.0) 3.6.1 7.2.1 5000 Bonzee (10:6-2.4.0) 3.6.1 7.2.1 5000 Color Key   2-Bunzon (78:9-3.3) 3.6.1 7.2.1 7.2.0 Bonzee (10:6-7.6.4.0) 3.6.1 7.2.1 5000 Color Key   1.2.01morboy retrane 3.6.1 7.2.1 1.00 Methyoin celoride (7:6-2.4) 3.6.1 7.2.1 5000 Color Key   N.N.Dimothy Bonzamide 3.6.1 7.2.1 1.00 Portion (10:76-8.4) 3.6.1 7.2.1 500 Termet (10:6-10) 1.2.6 2.5.2 2.00 Termet (10:74-1) 3.6.1 7.2.1 500 Termet (10:6-1) 1.2.6 2.5.2 2.00 Termet (10:6-1) 1.2.6 2.5.2 2.00 Termet (10:6-1) 1.6.1 7.2.1 500 Termet (10:6-1) 1.6.1 7.2.1 500 Ter	<u>Solvent</u>				Level	<u>Solvent</u>				Level	
Banzane (1-43-2) 0.361 0.721 2 abutane (75-29-5) 36.1 72.1 5000 sopport and (75-34-0) 36.1 72.1 5000 sopport and (75-29-5) 36.1 72.1 5000 sopport and (75-29-5) 36.1 72.1 5000 sopport and (75-29-1) 36.1 72.1 500 Sopport and (75-29-1) 36.1 72.1 500 Sopport and (75-39-1) 36.1 72.1 200	Acetone (67-64-1)	-	36.1	72.1	5000	n-Heptane (142-82-5)	-	36.1	72.1	5000	
n-Balaner (166-97-2) 3.6.1 7.2.1 500 kopropanol (67-63-0) 3.6.1 7.2.1 500 kopropanol (75-2.0) 3.6.1 7.2.1 500	Acetonitrile (75-5-8)	-	36.1	72.1	410	n-Hexane (110-54-3)	-	12.6	25.2	290	
1-Banani (71-36.3)36.17.2.15000formation (0.0000)and	Benzene (71-43-2)	-	0.361	0.721	2	Isobutane (75-28-5)	-	36.1	72.1	5000	
2-Batanol (78-92-2)36.172.15000(10e 3/-4)136.172.15000(10e 3/-4)2-Batanol (78-92-3)36.172.15000(10e 3/-4)36.172.15000(10e 3/-4)70(2-Orderosce (110-74-4))36.172.15000(10e 3/-4)36.172.13000(10e 3/-4)70(10e 3/-4)36.172.11000(10e 3/-4)36.172.13000(10e 3/-4)70(10e 3/-4)36.172.11000(10e 3/-4)36.172.1600(10e 3/-4)(10e 3/-4)36.172.11000(10e 3/-4)36.172.1600(10e 3/-4)(2-Orderosce (110)12.636.172.13000(10e 3/-4)70(10e 3/-4)(2-Orderosce (110)12.636.172.15000(10e 3/-4)70(10e 3/-4)(2-Orderosce (110)12.636.172.15000(10e 3/-4)70(10e 3/-4)(2-Orderosce (12-3))36.172.15000(10e 3/-4)7070Action levels are reference (110e 3/-3)7070Action levels are reference (110e 3/-3)7070Action levels are reference (110e 3/-3)72.1500010e 5/-17070Action levels are reference (110e 3/-3)72.170Action levels are reference (110e 3/-3)72.170Action levels are reference (110e 3/-3)72.170Action levels are reference (110e 3/-3)72.170Act	n-Butane (106-97-2)	-	36.1	72.1	5000	Isopropanol (67-63-0)	-	36.1	72.1	5000	
2-Balanan (78-92-2) iso 72.1 5000 (Nor-21-4) iso 3.6.1 7.2.1 7.00 Color Key   2-Balanane (78-92-2) 36.1 7.2.1 300 Methano (67-5c-1) 3.6.1 7.2.1 5000 IRESULT < AL	1-Butanol (71-36-3)	-	36.1	72.1	5000		_	36.1	72 1	5000	
$ \begin{array}{                                    $	2-Butanol (78-92-2)	-	36.1	72.1	5000	· /		50.1	/ 2.1	5000	
Cyclohexae (110-82-7) is Sel. 7.1 380 Methanol (67-56-1) Sel. 7.1 3000 Celor Key   (110-71-4) is S.0 7.1 is Sel. 7.1 Sel. Sel. T.1 Sel. </td <td>2-Butanone (78-93-3)</td> <td>-</td> <td>36.1</td> <td>72.1</td> <td>5000</td> <td></td> <td>-</td> <td>3.61</td> <td>7.21</td> <td>70</td> <td></td>	2-Butanone (78-93-3)	-	36.1	72.1	5000		-	3.61	7.21	70	
1.2-Dimethylacetamic (10-71-4)3.617.211002.Methylbrane (3P-78-4)5.6.37.1150.617.1150.61RESULT × ALNN-Dimethylacetamic (72-195)3.6.17.2.1500RESULT × ALRESULT × ALRESULT × AL2.2-Dimethylacetamic (73-932)1.2.6 $2.52$ $2.52$ $2.50$ "Otherhylpentane (96-60-0)3.6.17.2.1500RESULT × AL2.2-Dimethylationa (73-932)1.2.6 $2.52$ $2.52$ $2.50$ "Otherhylpentane (96-60-0)3.6.17.2.1500"UT" othetected lass than LOQ(73-932)1.2.6 $2.52$ <	Cyclohexane (110-82-7)	-	36.1	72.1	3880	· /		26.1	70.1	2000	Color Key
$ \begin{array}{                                    $			3.61	7 21	100	. ,	-				
$ \begin{array}{                                    $	N,N-Dimethylacetamide	_				Methylene chloride	-				
$ \begin{array}{                                    $	2,2-Dimethylbutane	_				2-Methylpentane	-	12.6	25.2	290	"DET" detected less than LOQ
$ \begin{array}{                                    $	· /					· · · · · ·	_	12.6	25.2	290	"-" not detected above
NA-Dimethylformamide (68-12-2)36.172.1801-Pentanol (71-41-0) n-Propanel (74-98-6)36.172.15000 72.1"*" - o,m,p-Xylene and Ethylbenzene (75.48-5)Umethylsulfoxide (67.68-5)36.172.130011-Propanol (71-23-8)36.172.15000Action levels are referenced from the State of Arkansas1.4-Dixane (123-91-1)36.172.15000Tetrahydrofian (109-99-9)36.172.1720Action levels are referenced from the State of Arkansas2-Ethosychanol (10-80-5)12.625.2160Tetrahydrofian (109-99-9)36.172.1800MMI testing guidelines,2-Ethosychanol (10-80-5)12.625.2160Tetrahydrofian (108-93-9)36.172.1800Avalue of "." for thaction level max Sylene (106-33-3)36.172.1800Avalue of "." for thaction level means that analyte testion level means that analyte testion levelEthylene glycol (107-21-1)36.172.1500Sylene* (130-20-7)36.172.1800Avalue of "." for thaction level means that analyte testion societ merettyEthylene glycol (107-21-1)36.172.1500Sylene* (130-20-7)36.172.12170Total action level means that analyte testion societ merettyEthylene glycol (107-21-1)36.172.1500Sylene* (130-20-7)36.172.12170Total action level means that analyte testion societ merettyAlvel envire telylene merettySole72.1		-	12.6	25.2	290		_				
(68-12-2)50.172.180.1n-Propane (74-98-6)36.172.150001. Fernyler dial EthylbenzeneDimethylsulfoxide (67-68-5)36.172.150001. Propanol (71-23-8)36.172.15000Ethylbenzene14-Dioxane (123-91-1)36.172.150001. Ternalydiora (109-99-9)36.172.1200Arkansas2-Ethoxyehanol (10-80-5)36.172.15000Ternalydiora (109-99-9)36.172.1200Arkansas2-Ethoxyehanol (10-80-5)36.172.15000Ternalydiora (109-99-9)36.172.1800ArkansasEthyl ether (60-29-7)36.172.15000Ternalydiora (109-88-3)36.172.1800Avalue of "." for the action level mp-xylene (108-88-3)36.172.1800Ethyl ether (60-29-7)36.172.1500Ternalydiora (108-88-3)36.172.1800Ethylen ethor (107-21-1)36.172.1500Toluene (108-83-3)36.172.1800Ethylen exitor (107-21-1)36.172.1620106-42-3036.172.1800Ethylen exitor (107-21-1)36.172.1620106-42-3036.172.1800AcceonitrileNethyl Zymrus50Yuenes (1330-20-7)43.386.72170is not currently regulated by the regulations referenced above.2-EthoxyehanolNethyl ZymrusIsobrane1.2-Ethanediol1.2-Ethanediol1.2-Ethanediol <td< td=""><td>. ,</td><td></td><td></td><td></td><td></td><td>· /</td><td>_</td><td></td><td></td><td></td><td>11-11 X7 1 1</td></td<>	. ,					· /	_				11-11 X7 1 1
$ \begin{array}{                                    $		-	36.1	72.1	880		_				
1.4-Dioxane (123-91-1)36.172.1380Firming (10-6-1)12.825.2200referenced from the State of ArkansasEthanol (64-17-5)3.6.172.15000Tetrahydrofuran (10-99-9)3.6.172.172.0Arkansas2-Ethoxyethanol (110-80-5)12.63.6.172.15000Tetrahydrofuran (10-99-9)3.6.172.172.0ArkansasEthyl ether (60-29-7)3.6.172.15000Toluene (108-88-3)3.6.172.1890Avalue of "-" for the action levelEthyl benzen (100-14-4)3.6.172.12100-Xylene (105-37-6)3.6.172.12170Mavlue of "-" for the action levelEthyl benzen (100-14-4)3.6.172.12100Yolene (106-88-3)3.6.172.12170Mavlue of "-" for the action levelEthyl benzen (100-14-4)3.6.172.12100Nylene (106-38-3)3.6.172.12170means that analyte is not currently regulated by the regulated b		-	36.1	72.1	5000	1-Propanol (71-23-8)	-	36.1	72.1	5000	U U
Ethanol (64-17-5)36.172.15000Tetramethylene sulfore (126-33-0)12.625.2160MMI testing guidelines.2-Ethoy ether (60-29-7)36.172.15000roluene (108-88-3)36.172.1890MMI testing guidelines.Ethyl actate (141-78-6)36.172.15000roluene (108-88-3)36.172.1810Mole esting guidelines.Ethyl actate (141-78-6)36.172.1500roluene (108-88-3)36.172.1810Mole esting guidelines.Ethyl actate (141-78-6)36.172.1620106-42-3)36.172.12170Means that analyte is not currently regulated by the regulated	1,4-Dioxane (123-91-1)	-	36.1	72.1	380		-				
2-Entoxyethanol (10-80-5)1112.51601012.516010100 <t< td=""><td>Ethanol (64-17-5)</td><td>-</td><td>36.1</td><td>72.1</td><td>5000</td><td>, , , , , , , , , , , , , , , , , , ,</td><td>-</td><td>36.1</td><td>72.1</td><td>720</td><td>Arkansas</td></t<>	Ethanol (64-17-5)	-	36.1	72.1	5000	, , , , , , , , , , , , , , , , , , ,	-	36.1	72.1	720	Arkansas
Ethyl ether (60-29-7)a3.6.17.2.1500For the colore (108-88-3)a3.6.17.2.12.170A value of "." for the action level for the action leve	2-Ethoxyethanol (110-80-5)	-	12.6	25.2	160		-	12.6	25.2	160	
Ethyl acetate (141-78-6)36.172.15000 $\circ$ -Xylene (95-47-6)36.172.12170A value of "-" for the action level means that analyte is not currently regulated by the regulated by the	Ethyl ether (60-29-7)	-	36.1	72.1	5000			36.1	72.1	890	guidelines.
Ethyl benzene (100-41-4)36.172.12170mp-Xylene (108-38-3 or 106-42-3)36.172.12170for the action level means that analyte is not currently regulated by the regulated by the regulations referenced above.SolventSenorym(s)SolventSolventSolventSolvent1-Butanoln-Butanol, Butyl AlcolSolventSolventSolventSolvent2-ButanoneMedhyl cymide, ACKSolventSolventSolventSolvent2,3-Dimethyl by TermeMonglymeMethyl ethyle, MEKSolventSolventSolvent2,3-Dimethyl by TermeMonglymeSolventSolventSolventSolvent3,3-Dimethyl by TermeMethyl ethyleSolvent<	Ethyl acetate (141-78-6)	-	36.1	72.1	5000	· · · · ·					A value of "-"
Ethylene glycol (107-21-1)36.172.1620106-42-3136.172.12170Imeans that analyte is not currently is not currently is not currently is not currently regulated by the regulations referenced above.SolventSynonym(s)SolventSynonym(s)Synon	Ethyl benzene (100-41-4)	-	36.1	72.1	2170	, , , , , , , , , , , , , , , , , , ,					
Ethylene oxide (75-21-8) 3.61 7.21 50 Xylenes* (1330-20-7) 43.3 86.7 2170 regulated by the regulations referenced above.   Solvent Synonym(s) Solvent Synonym(s) Synonym(s) regulated by the regulations referenced above.   Acetonitrile Methyl Cyanide, ACN Ethylene glycol 1,2-Ethaneol Solvent 2-Methylpropane   1-Butanol n-Butanol, Butyl Alcoho Isopropanol 2-Methylpropane Solvent 2-Porpanol, IPA   2-Butanol sec-Butyl achone Isopropanol, Cactic acid isopropyl ester Solvent Solvent Solventor   1,2-Dimethoxyethane Monglyme Solventor Solventor Solventor Solventor Solventor   2,3-Dimethylbutane Nonglyme Solventor Solventor Solventor Solventor Solventor   Solventylformamide Diff Solventor Solventor Solventor Solventor Solventor Solventor   Solventylformamide Diff Solventor Solventor Solventor Solventor Solventor Solventor   Solventylformamide DisoporyI Solventor Solvent	Ethylene glycol (107-21-1)	-	36.1	72.1	620		-	36.1	72.1	2170	5
SolventSynomy (Synomy	Ethylene oxide (75-21-8)	-	3.61	7.21	50	Xylenes* (1330-20-7)	-	43.3	86.7	2170	regulated by the
1-Butanoln-Butanol, Butyl AlcoholIsobutane2-Methylpropane2-Butanolsec-Butyl alcoholIsopropanol2-Propanol, IPA2-ButanoneMethyl ethyl ketone, MEKIsopropal AcetateAcetic acid isopropyl ester1,2-DimethoxyethaneMonoglymeMethanolMethyl alcohol2,3-DimethylbutaneNeohexane2-MethylbutaneIsopropyl2,3-DimethylbutaneDifMethanolSolutane1,9-DimethylformamideDMF2-MethylpentaneIsohexaneN,N-DimethylformamideDMSO1-PentanolIsohexane1-Pentanol1-PonanolPropanolPropyl alcohol2-EthoxyethanolCellosolve, Ethyl glycol1-PonanolPropyl alcoholEthyl etherDiethylethereTetmethylene sulforeTifEthyl acetateEtOAcTetmethylene sulforeSulfolane	Solvent		Synonym(s	<u>s)</u>		Solvent	<u>S</u>	ynonym(s)			
2-Butanolsec-Butyl alcoholIsopropanol2-Propanol, IPA2-ButanoneMethyl ethyl ketone, MEKIsopropyl AcetateAcetic acid isopropyl ester1,2-DinethoxyethaneMonoglymeMethanolMethyl alcohol2,3-DinethylbutaneNeohexane2-MethylbutaneIsopropyl2,3-DinethylbutaneDiisopropylMethyl echlorideDichloromethaneN,N-DimethylformamideDMF2-MethylpentaneIsohexaneDimethysufoxideDMSO1-Pentanoln-Amyl alcohol2-EthoxyethanolCellosolve, Ethyl glycol1-PropanolPropyl alcoholEthyl ectateDiethyletherTetrambylen sulforeTHF	Acetonitrile		Methyl Cya	anide, ACN		Ethylene glycol	1	,2-Ethanediol			
2-ButtonMethyl ethyl ketone, MEKIsopropyl AcetateAcetic acit isopropyl ester1,2-DimethoxyethaneMonoglymeMethanolMethyl alcohol2,3-DimethylbutaneNeohexane2-MethylbutaneIsopenata2,3-DimethylbutaneDiisopropylMethyl echlorideDichloromethaneN,N-DimethylformamideDMF2-MethylpentaneIsohexaneDimethysufoxideDMSO1-Pentanoln-Amyl alcohol2-EthoxyethanolCellosolve, Ethyl glycol1-PropanolPropyl alcoholEthyl ectateDiethyletherTetrambylen sulforeTHF	1-Butanol		n-Butanol,	Butyl Alcol	hol	Isobutane	2	-Methylpropa	ine		
1,2-DimethoxyethaneNongymeMethanolMethylalcohol2,3-DimethylbutaneNeohexane2-MethylbutaneIsopentane2,3-DimethylbutaneDiisopropylMethylene chlorideDichloromethaneN,N-DimethylformamideDMF2-MethylpentaneIsohexaneDimethysufoxideDMSO1-Pentanoln-Amyl alcohol2-EthoxyethanolCellosolve, Ethyl glycol1-PropanolPropalacoholEthyl etherDiethyletherTetrambyloruanTHFEthyl acetateEtOAcTetrambylene sulfoneSulfolane	2-Butanol		sec-Butyl a	lcohol		Isopropanol	2	-Propanol, IP/	A		
2,3-DimethylbutaneNeokane2-MethylbutaneIsopertane2,3-DimethylbutaneDiisopropylMethylene chlorideDichloromethaneN,N-DimethylformamideDMF2-MethylpentaneIsohexaneDimethysufoxideDMSO1-Pentanoln-Amyl alcohol2-EthoxyethanolCellosolve, Ethyl glycol1-PropanolPropyl alcoholEthyl etherDiethylether, EtherTetrambyloturanTHFEthyl acetateEtOAcTetramethylene sulfoneSulfolane	2-Butanone		Methyl eth	yl ketone, N	1EK	Isopropyl Acetate	А	cetic acid iso	propyl este	ľ	
2,3-DimethylbutaneDiisopropylMethylene chlorideDichloromethaneN,N-DimethylformamideDMF2-MethylpentaneIsohexaneDimethysufoxideDMSO1-Pentanoln-Amylalcohol2-EthoxyethanolCellosolve, Ethyl glycol1-PropanolPropyl alcoholEthyl etherDiethylether, EtherTetrambyloruanTHFEthyl acetateEtOAcTetramethylene sulfoneSulfolane	1,2-Dimethoxyethane		Monoglym	e		Methanol	Ν	fethyl alcoho	1		
N,N-DimethylformamideDMF2-MethylpentaneIsohexaneDimethysufoxideDMSO1-Pentanoln-Amylalcohol2-EthoxyethanolCellosolve, Ethyl glycol1-PropanolPropyl alcoholEthyl etherDiethyle, EtherTetrahydrofuranTHFEthyl acetateEtOAcTetramethylene sulfoneSulfolane	2,3-Dimethylbutane		Neohexane			2-Methylbutane	Is	sopentane			
DimethysufoxideDMSO1-Pentanoln-Amyl alcohol2-EthoxyethanolCellosolve, Ethyl glycol1-PropanolPropyl alcoholEthyl etherDiethyl ether, EtherTetrahydrofuranTHFEthyl acetateEtOAcTetramethylene sulfoneSulfolane	2,3-Dimethylbutane		Diisopropy	/l		Methylene chloride	D	ichlorometha	ine		
2-EthoxyethanolCellosolve, Ethyl glycol1-PropanolPropyl alcoholEthyl etherDiethyl ether, EtherTetrahydrofuranTHFEthyl acetateEtOAcTetramethylene sulfoneSulfolane	N,N-Dimethylformamide		DMF			2-Methylpentane	Is	sohexane			
Ethyl etherDiethyl ether, EtherTetrahydrofuranTHFEthyl acetateEtOAcTetramethylene sulfoneSulfolane	Dimethysufoxide		DMSO			1-Pentanol	n	-Amyl alcoho	ol		
Ethyl acetate EtOAc Tetramethylene sulfone Sulfolane	2-Ethoxyethanol		Cellosolve	, Ethyl glyc	ol	1-Propanol	P	ropyl alcohol			
	Ethyl ether		Diethyl eth	er, Ether		Tetrahydrofuran	Т	ΉF			
	Ethyl acetate		EtOAc			Tetramethylene sulfone	S	ulfolane			
	Ethyl benzene		Phenyletha	ne		-	D	imethylbenze	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

# **CERTIFICATE OF ANALYSIS (SAMPLE ID: SA34412)**

Testing Location:	Customer ID: 2168	Order ID: OR10305	Sample Type: Primary
Arkansas	<b>River Valley Relief MIPS</b>	Lot Number:	Matrix: Concentrate
232 S. Broadview St.	5601 Old Greenwood Rd Suite C	M00065C13240404467	Mass: 4g
Greenbrier, AR 72058	Fort Smith, AR 72903	Production Run:	Date Collected: 02/13/2023
License: ADH 113	License: 00065C	E20230207GVALC01	Date Received: 02/13/2023
Cultivar (Strain) or Sample	<b>Date Completed:</b> 02/17/2023		

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

Analysis Date/Time: 02/17/2023 0902 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)	-	0.0402	0.321	0.5	Kresoxim-methyl	_	0.0402	0.321	0.4	
Acephate (30560-19-1)	-	0.0402	0.321	0.4	(143390-89-0)					
Acequinocyl (57960-19-7)	-	0.0402	0.321	2	Malathion (121-75-5)	-	0.0402	0.321	0.2	
Acetamiprid (135410-20-7)	-	0.0402	0.321	0.2	Metalaxyl (57837-19-1) Methiocarb (2032-65-7)	-	0.0402 0.0402	0.321 0.321	0.2 0.2	<u>Color Key</u>
Aldicarb (116-06-3)	-	0.0402	0.321	0.4	Methomyl (16752-77-5)	-	0.0402	0.321	0.4	<b>RESULT &lt; AL</b>
Azoxystrobin (131860-33-8)	-	0.0402	0.321	0.2	Methyl parathion (298-0-0)	-	0.0402	0.321	0.2	<b>RESULT &gt; AL</b>
Bifenazate (149877-41-8)	-	0.0402	0.321	0.2	MGK 264 (113-48-4)	-	0.0402	0.321	0.2	"DET" detected less than LOQ
Bifenthrin (82657-04-3)	-	0.0402	0.321	0.2	Myclobutanil	_	0.0402	0.321	0.2	"-" not detected above
Boscalid (188425-85-6)	-	0.0402	0.321	0.4	(88671-89-0)					LOD
Carbaryl (63-25-2)	-	0.0402	0.321	0.2	Naled (300-76-5)	-	0.0402	0.321	0.5	Permethrins measured as the
Carbofuran (1563-66-2)	-	0.0402	0.321	0.2	Oxamyl (23135-22-0)	-	0.0402	0.321	1	cumulative residue of the <i>cis</i> - and
Chlorantraniliprole (800008-45-7)	-	0.0402	0.321	0.2	Paclobutrazol (76738-62-0)	-	0.0402	0.321	0.4	trans- permethrin isomers.
Chlorfenapyr		0.0402	0.321	1	Permethrins (52645-53-1)	-	0.0402	0.321	0.2	Pyrethrins measured as the cumulative residue of the
(122453-73-0)				1	Phosmet (732-11-6)	-	0.0402	0.321	0.2	pyrethrin I, cinerin I, and jasmolin
Chlorpyrifos (2921-88-2)	-	0.0402	0.321	0.2	Piperonyl butoxide (51-03-6)	-	0.0402	0.321	2	I isomers.
Clofentezine (74115-24-5)	-	0.0402	0.321	0.2	(31-03-0) Prallethrins (2331-36-9)		0.0402	0.321	0.2	Action levels are referenced from
Cyfluthrin (68359-37-5)	-	0.0402	0.321	1	Propiconazole					the
Cypermethrin (52315-07-8)	-	0.0402	0.321	1	(60207-90-1))	-	0.0402	0.321	0.4	State of Arkansas MMJ testing guidelines.
Daminozide (1596-84-5)	-	0.0402	0.321	1	Propoxur (114-26-1)	-	0.0402	0.321	0.2	A value of "-" for the action level
DDVP (62-73-7)	-	0.0402	0.321	0.1	Pyrethrins (8003-34-7)	-	0.0402	0.321	1	means that analyte is not
Diazinon (333-41-5)	-	0.0402	0.321	0.2	Pyridaben (96489-71-3)	-	0.0402	0.321	0.2	currently regulated by the regulations referenced above.
Dimethoate (60-51-5)	-	0.0402	0.321	0.2	Spinosad (168316-95-8)	-	0.0402	0.321	0.2	regulations referenced above.
Ethoprophos (13194-48-4)	-	0.0402	0.321	0.2	Spiromesifen (283594-90-1)	-	0.0402	0.321	0.2	<i>Disclaimer</i> : This information is provided as a service and makes
Etofenprox (80844-07-1)	-	0.0402	0.321	0.4	Spirotetramat					no claims of efficacy and/or safety
Etoxazole (153233-91-1)	-	0.0402	0.321	0.2	(203313-25-1)	-	0.0402	0.321	0.2	of this product. Results are
Fenoxycarb (72490-01-8)	-	0.0402	0.321	0.2	Spiroxamine	_	0.0402	0.321	0.4	applicable only for the sample(s) analyzed and for the specific
(E)-Fenpyroximate (134098-61-6)	-	0.0402	0.321	0.4	(118134-30-8) Tebuconazole		0.0402	0.321	0.4	analysis conducted. This report is for informational purposes only
Fipronil (120068-37-3)	-	0.0402	0.321	0.4	(80443-41-0)		0.0402	0.521	0.4	and should not be used to
Flonicamid (158062-67-0)	-	0.0402	0.321	1	Thiacloprid (111988-49-9)	-	0.0402	0.321	0.2	diagnose, treat, or prevent any medical-related symptoms. The
Fludioxinil (131341-86-1)	-	0.0402	0.321	0.4	(111988-49-9) Thiamethoxam					statements and results herein have
Hexythiazox (78587-05-0)	-	0.0402	0.321	1	(153719-23-4)	-	0.0402	0.321	0.2	not been approved and/or endorsed by the FDA.
Imazalil (35554-44-0)	-	0.0402	0.321	0.2	Trifloxystrobin		0.0402	0.321	0.2	endoised by the FDA.
Imidacloprid (138261-41-3)	-	0.0402	0.321	0.4	(141517-21-7)		0.0402	0.321	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 Tilt Baythroid Myclobutanil Systhane Propiconazole DDVP Baygon Dichlorvos Naled Dibrom Propoxur Ethoprophos Prophos Phosmet Imidan



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# **CERTIFICATE OF ANALYSIS (SAMPLE ID: SA34412)**

Testing Location:	Customer ID: 2168	Order ID: OR10305	Sample Type: Primary
Arkansas	<b>River Valley Relief MIPS</b>	Lot Number:	Matrix: Concentrate
232 S. Broadview St.	5601 Old Greenwood Rd Suite C	M00065C13240404467	Mass: 4g
Greenbrier, AR 72058	Fort Smith, AR 72903	Production Run:	Date Collected: 02/13/2023
License: ADH 113	License: 00065C	E20230207GVALC01	Date Received: 02/13/2023
Cultivar (Strain) or Sample	<b>Date Completed:</b> 02/17/2023		

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

Analysis Date/T Analysis Date/T Analyst: KF	ime: 02/17/2023 ( ime: - (DMA)	9842 (ICP/OES)		t <b>hod:</b> ICP/OES t <b>rument:</b> Agilent 720	-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)	-	58.7	92.9	200	
Cadmium (Cd)	-	58.7	92.9	200	
Lead (Pb)	-	58.7	92.9	500	
Mercury (Hg)	-	58.7	92.9	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.

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# **CERTIFICATE OF ANALYSIS (SAMPLE ID: SA34412)**

Testing Location:	Customer ID: 2168	Sample ID: SA34412	Sample Type: Primary
Arkansas	<b>River Valley Relief MIPS</b>	Lot Number:	Matrix: Concentrate
232 S. Broadview St.	5601 Old Greenwood Rd Suite C	M00065C13240404467	Mass: 4g
Greenbrier, AR 72058	Fort Smith, AR 72903	Production Run:	Date Collected: 02/13/2023
License: ADA 05_H273	License: 00065C	E20230207GVALC01	Date Received: 02/13/2023
Cultivar (Strain) or Sample D	Date Completed: 02/17/2023		

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

Analysis Date/Time: 2023021 Analyst: PW		Hardy Diagnostics CompactD nt: 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





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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