



## SUMMARY OF ANALYSIS (SAMPLE ID: SA37758)

Testing Location:	Customer ID: 2168	Order ID: OR10983	Sample Type: Primary
Arkansas	River Valley Relief MIPS	Lot Number:	Matrix: Concentrate
232 S. Broadview St.	5601 Old Greenwood Rd Suite C	M00065C13244949416	Mass: 4units
Greenbrier, AR 72058	Fort Smith, AR 72903	Production Run:	Date Collected: 04/29/2024
License: ADH 113	License: 00065C	E20240426E85LS01	Date Received: 04/29/2024
Cultivar (Strain) or Sample D	Date Completed: 05/01/2024		

\*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.

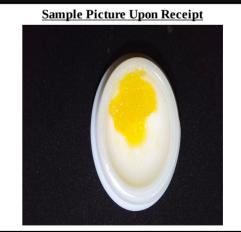
Moisture Content (%)	Water Activity (aw)	PASS/FAIL
Not Tested	Not Tested	PASS

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>	<u>mg/g</u>
THCA	83.0	830
CBGA	2.32	23.2
CBCA	0.977	9.77
TOTAL CBD	-	-
TOTAL THC	73.1	731
TOTAL CANNABINOIDS	86.9	869
<u>Terpenes (Top 5)</u>	<u>(%)</u>	<u>µg∕</u> g
<u>Terpenes (Top 5)</u> β-Caryophyllene	<u>(%)</u> 2.04	<b>µg/g</b> 20400
β-Caryophyllene	2.04	20400
β-Caryophyllene d-Limonene	2.04 1.65	20400 16500
β-Caryophyllene d-Limonene α-Humulene	2.04 1.65 0.639	20400 16500 6390

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



Scan the QR code to verify results.

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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.



REPORT OF LABORATORY ANALYSIS

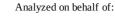
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www.FASTLaboratories.com









Testing Location:	Customer ID: 2168	Order ID: OR10983	Sample Type: Primary
Arkansas	River Valley Relief MIPS	Lot Number:	Matrix: Concentrate
232 S. Broadview St.	5601 Old Greenwood Rd Suite C	M00065C13244949416	Mass: 4units
Greenbrier, AR 72058	Fort Smith, AR 72903	Production Run:	Date Collected: 04/29/2024
License: ADH 113	License: 00065C	E20240426E85LS01	Date Received: 04/29/2024
Cultivar (Strain) or Sample De	Date Completed: 05/01/2024		

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

Analysis Date/Time: 04/30/2024 1930 Analyst: PW

Method: HPLC/DAD Instrument: Agilent 1100

<u>Cannabinoid</u>	<u>Result</u> ( <u>%</u> )	<u>Result</u> (mg/g)	<u>LOD</u> (mg/g)	LOQ (mg/g)	<u>Result</u> ( <u>mg/</u> <u>mL</u> )	<u>Per</u> Serving (mg)	<u>Per</u> g <u>Unit</u> (mg)
CBC	ND	ND	0.109	0.254	-	-	-
CBCA	0.977	9.77	0.338	0.788	-	9.77	9.77
CBD	ND	ND	0.767	1.79	-	-	-
CBDA	ND	ND	0.282	0.659	-	-	-
CBDV	ND	ND	0.123	0.287	-	-	-
CBDVA	ND	ND	0.328	0.766	-	-	-
CBG	ND	ND	0.498	1.16	-	-	-
CBGA	2.32	23.2	0.706	0.833	-	23.2	23.2
CBL	ND	ND	0.575	1.34	-	-	-
CBN	ND	ND	0.264	0.617	-	-	-
CBNA	ND	ND	0.285	0.665	-	-	-
Δ9-ΤΗC	0.278	2.78	0.317	0.739	-	2.78	2.78
$\Delta 8$ -THC	ND	ND	0.494	1.15	-	-	-
THCA	83.0	830	0.172	0.402	-	830	830
THCV	ND	ND	0.412	0.961	-	-	-
THCVA	0.328	3.28	0.132	0.306	-	3.28	3.28
TOTAL	86.9	869			-	869	869
TOTAL CBC	0.857	8.57			-	8.57	8.57
TOTAL CBD	-	-			-	-	-
TOTAL CBDV	-	-			-	-	-
TOTAL CBG	2.03	20.3			-	20.3	20.3
TOTAL CBN	-	-			-	-	-
TOTAL THC	73.1	731			-	731	731
TOTAL THCV	0.285	2.85			-	2.85	2.85

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 =  $(CBCA \times 0.877) + CBC$ Total CBD = (CBDA x 0.877) + CBD Total CBDV = (CBDVA x 0.867) + CBDV Total CBG =  $(CBGA \times 0.878) + CBG$ Total CBN = (CBNA x 0.876) + CBN Total THC = (THCA x 0.877) +  $\Delta$ 9-THC Total THCV =  $(THCVA \times 0.867) + THCV$ 

Percentage results are reported by mass.

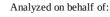
mg/g results are reported as mass component per mass material.













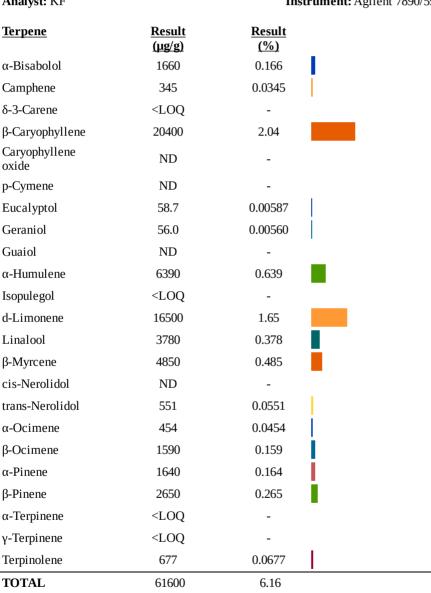
Testing Location:	Customer ID: 2168	<b>Order ID:</b> OR10983	Sample Type: Primary
Arkansas	<b>River Valley Relief MIPS</b>	Lot Number:	Matrix: Concentrate
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Greenbrier, AR 72058	Fort Smith, AR 72903	Production Run:	Date Collected: 04/29/2024
License: ADH 113	License: 00065C	E20240426E85LS01	Date Received: 04/29/2024
Cultivar (Strain) or Sample	Date Completed: 05/01/2024		

Analysis Date/Time:05/01/2024 0035 Analyst: KF

TERPENOID PROFILE

Method: GC/MS Instrument: Agilent 7890/5975

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





Abbreviations: GC - Gas Chromatography, MS - Mass Spectrometry, RL - Reporting Limit Abbreviations: ND - Not Detected, , LOD - Limit of Detection, LOQ - Limit of Quantitation

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#### Reporting Limit (µg/g): 47.7

"-" Not detected above LOD.













Testing Location:	Customer ID: 2168	Order ID: OR10983	Sample Type: Primary
Arkansas	River Valley Relief MIPS	Lot Number:	Matrix: Concentrate
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Cultivar (Strain) or Sample I	Date Completed: 05/01/2024		

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

index       index <t< th=""><th>Analysis Date/Time:</th><th colspan="3">Analysis Date/Time: 04/30/2024 0146 Method: HS/GC/M</th><th>Method: HS/GC/MS</th><th colspan="5"><b>Deviations from SOP:</b></th></t<>	Analysis Date/Time:	Analysis Date/Time: 04/30/2024 0146 Method: HS/GC/M			Method: HS/GC/MS	<b>Deviations from SOP:</b>					
Image Image Image Image ImageImage Image Image ImageImage Image Image Image ImageImage Image Image ImageImage Image Image ImageImage Image ImageImage Image ImageImage Image ImageImage Image ImageImage Image ImageImage Image Image	Analyst: KF				1	nstrument: Agilent 78	90/5975	5	Ν	lone	
Accountrile (75-3-8)       31.2       62.5       410       n+Hxane (110-54.3)       10.9       21.9       299       299         Benzen ((71-32.3)       0.312       62.5       200       Isobutane (75-28.5)       31.2       62.5       5000         1-Battant (10-67-2)       31.2       62.5       5000       Isopropul acetate       31.2       62.5       5000       1000       2012       62.5       5000       6000000000000000000000000000000000000	<u>Solvent</u>				Level	<u>Solvent</u>				Level	
Benzene (71-43-2)       0.312       0.625       2       Isobutane (75-28-5)       31.2       62.5       5000       Source (76-28-5)       31.2       62.5       5000       Source (76-28-3)       31.2       62.5       5000       Source (76-38-3)       Source	Acetone (67-64-1)	-	31.2	62.5	5000	n-Heptane (142-82-5)	-	31.2	62.5	5000	
n-Bataae (106-97-2)31.262.55000Isopropanol (67-63-0)31.262.55000Isopropanol (67-63-0)31.262.55000Isopropanol (67-63-0)31.262.55000Isopropanol (67-63-0)31.262.55000Isopropanol (67-63-0)31.262.55000Isopropanol (67-63-0)31.262.55000Isopropanol (67-56-1)31.262.55000Isopropanol (67-56-1)31.262.55000Isopropanol (67-56-1)31.262.55000Isopropanol (75-76-1)31.262.55000Isopropanol (71-38-1)	Acetonitrile (75-5-8)	-	31.2	62.5	410	n-Hexane (110-54-3)	-	10.9	21.9	290	
1-Butanol (71-36-3)       31.2       62.5       5000       Borropyl acetate       2       31.2       62.5       5000       Control (0.8-2-2)       31.2       62.5       5000       Sopropyl acetate       31.2       62.5       5000       Control (0.8-3-3)       31.2       62.5       5000       Sopropyl barzene       31.2       62.5       5000       Control (0.8-3-3)       31.2       62.5       5000       Control (0.8-2-7)       31.2       62.5       5000       Control (0.8-2-8)       31.2       62.5       5000       RESULT < ALI	Benzene (71-43-2)	-	0.312	0.625	2	Isobutane (75-28-5)	-	31.2	62.5	5000	
2-Butanol (76-92-2)       31.2       62.5       5000       (108-21-4)       1       1.2       6.2.5       5000       [69-22-4]         2-Butanol (76-93-3)       31.2       62.5       5000       [69-22-4]       31.2       6.2.5       70       Color Key         12-Dimethoxyethane       1.2       6.2.5       100       2-Methylburan (78-78-4)       1.2       6.2.5       5000       Restult 7 All         N-Dimethylaceannide       1.2       6.2.5       100       2-Methylburan (78-78-4)       1.2       6.2.5       600       Restult 7 All         (107-14)       11.2       62.5       100       2-Methylpentane       1.0.9       21.9       290       "DET" detected less the 100/6-00       10.9       21.9       290       "DET" detected less the 100/6-00       10.9       21.9       290       """ not detected less the 100/6-00       10.9       21.9       290       """ not detected less the 100/6-00       10.9       21.9       290       """ not detected less the 100/6-00       10.9       21.9       290       """ not detected less the 100/6-00       10.9       21.9       290       """ not detected less the 100/6-00       10.9       21.9       290       """ not detected less the 100/6-00       10.9       21.9       200       """ not detected less the 1	n-Butane (106-97-2)	-	31.2	62.5	5000	Isopropanol (67-63-0)	-	31.2	62.5	5000	
2-Butanol (78-92-2)       i       31.2       62.5       5000       (100-21-4)       3.12       6.25       700         2-Butanole (78-93-3)       31.2       62.5       5000       (100-21-4)       31.2       6.25       700         12-Dimethoxyethane       3.12       62.5       3000       2.44tha)ol (67-56-1)       31.2       62.5       5000       RESULT < AL	1-Butanol (71-36-3)	-	31.2	62.5	5000		_	31.2	62.5	5000	
2-bit manual (19-37-5)       61.2       62.3       3000       (98.42.6)       61.2       62.5       70         12-20 (10-82-7)       61.2       62.5       3880       Methanol (67-56-1)       31.2       62.5       3000       RESULT < AL	2-Butanol (78-92-2)	-	31.2	62.5	5000	· · · ·		51.2	02.5	3000	
$ \begin{array}{                                    $	2-Butanone (78-93-3)	-	31.2	62.5	5000		-	3.12	6.25	70	
1.2.Dimetholysethane (10-71-4)3.126.235.00RESULT < AL (10-71-4)N.N-Dimethylaceannide (127-19-5)3.126.251002.4dethylburane (78-78-4)5.126.25600RESULT < AL (RESULT > AL (RESULT > AL (75-9-2))2.2-Dimethylbutane (79-29-3)10.921.9200??.6dethylburane (78-78-4)1.26.25600RESULT > AL (RESULT > AL (75-9-2))2.2-Dimethylbutane (79-29-3)10.921.921.9200?.4dethylburane (76-10-0)10.921.9290"" not detected as LOD2.3-Dimethylbutane (79-29-3)10.921.921.9200"" not detected as LOD1.2062.55000"" not detected as LODN.N-Dimethylformanide (68-12-2)3.1262.550001.403.1262.55000"" not, pXylene (Re8-12-3)1.1021.9200"" not, pXylene (Re8-12-3)1.4-Dioxan (123-91-1)3.1262.550001.401.10.921.9200referenced from the S Arkanasa1.4-Dioxan (123-91-1)3.1262.550001.401.0921.9200referenced from the S Arkanasa1.4-Dioxan (164-17.5)3.1262.550001.401.0921.9200referenced from the S Arkanasa1.4-Dioxan (164-17.5)3.1262.550001.403.1262.5500Arkanasa1.4-Dioxan (164-17.5)10.921.910.921.910.910.9<	Cyclohexane (110-82-7)	-	31.2	62.5	3880	· · · ·		21.2	60 E	2000	Color Key
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	1,2-Dimethoxyethane		3 1 2	6.25	100	. ,	-				
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	( )					Methylene chloride	-				
(79-33-2)       3-Methylpentane (96-10-0)       10.9       21.9       290       "-" not detected ab         (79-29-8)       10.9       21.9       290       "-" not detected ab       10.9       21.9       290       "-" not detected ab         NN-Dimethylformanide       31.2       62.5       5000       1.00       31.2       62.5       5000       """ - o,m,p-Xylene         Dimethylsulfoxide       31.2       62.5       5000       1.Popanol (71-23-8)       31.2       62.5       5000       Action levels ar         (4-0ioxane (123-91-1)       31.2       62.5       5000       1.Propanol (71-23-8)       31.2       62.5       5000       Action levels ar         (4-10-55)       31.2       62.5       5000       12.9       10.9       21.9       200       Action levels ar         (14-0ioxane (123-91-1)       31.2       62.5       5000       10.10.99-99.9       31.2       62.5       720       Action levels ar         (4-10-55)       31.2       62.5       5000       10.10.99-99.9       31.2       62.5       720       Arkansas         (2-11)       31.2       62.5       5000       10.40.99-97.9       31.2       62.5       10.9       Arkansas         (2-11) <td>2,2-Dimethylbutane</td> <td></td> <td></td> <td></td> <td></td> <td>2-Methylpentane</td> <td>-</td> <td>10.9</td> <td>21.9</td> <td>290</td> <td>"DET" detected less than LOQ</td>	2,2-Dimethylbutane					2-Methylpentane	-	10.9	21.9	290	"DET" detected less than LOQ
2.3-Dimethylotrane (%7-29-8)1.0.921.920.0Action levels are referenced from the S1.4-Dioxane (123-91-1)31.262.5500021.921.921.920.021.920.0Action levels are referenced from the S2.4-Dioxane (123-91-1)31.262.5500021.921.021.920.0Action levels are referenced from the S2.4-Dioxane (123-91-1)31.262.55000Tetrametylene sulfore (126-33-0)31.262.572.0Action levels are methylen sulfore (126-33-0)31.262.521.0Action levels are methylen sulfore (126-33-0)31.262.572.0Action levels are methylen sulfore methylen sulfore31.262.572.0Action levels are methylen sulfore2.4-Divale denome (41-178-6)31.262.55000Tetramethylen sulfore (126-33-0)31.262.521.0Action levels are methylen sulfore methylen sulfore31.262.521.0Act	. ,						_	10.9	21.9	290	"-" not detected above
N.N.Dimethylformamide (66-12-2) $31.2$ $62.5$ $80$ 1-Pentanol (71-41-0) $a$ $31.2$ $62.5$ $500$ Dimethylsulfoxide (67-68-5) $31.2$ $62.5$ $500$ 1-Pentanol (71-41-0) $a$ $31.2$ $62.5$ $5000$ Limethylsulfoxide (67-68-5) $31.2$ $62.5$ $5000$ 1-Penpanol (71-23-8) $a$ $31.2$ $62.5$ $5000$ Limethylsulfoxide (67-68-5) $a$ $31.2$ $62.5$ $5000$ $1-Penpanol (71-23-8)$ $a$ $31.2$ $62.5$ $5000$ Ethanol (64-17-5) $a$ $31.2$ $62.5$ $5000$ $10.9$ $21.9$ $100$ $21.9$ $100$ $21.9$ $100$ $21.9$ $100$ $21.9$ $100$ $21.9$ $100$ $21.9$ $100$ $21.9$ $100$ $21.9$ $100$ $21.9$ $100$ $21.9$ $100$ $21.9$ $100$ $21.9$ $100$ $21.9$ $100$ $10.2$ $21.9$ $100$ $10.2$ $21.9$ $100$ $10.2$ $21.9$ $100$ $10.2$ $21.9$ $100$		-	10.9	21.9	290		_				
(68-12-2)       1       3.1.2       62.5       880       n-Propane (74-98-6)       1       31.2       62.5       5000       Eth Ullip Paytelee         Dimethylsulfoxide (67-68-5)       31.2       62.5       5000       1-Propanol (71-23-8)       31.2       62.5       5000       Action levels and thylsulfoxide (67-68-5)         1,4-Dioxane (123-91-1)       31.2       62.5       5000       Ternahydrotina (109-99-9)       31.2       62.5       720       Action levels and thylsulfoxide (75-21-8)         2-Ethosyethanol (110-80-5)       10.9       21.9       160       Ternamethylene sulfone (126-33-0)       10.9       21.9       160       MMJ testing guidelines.         Ethyl ether (60-29-7)       31.2       62.5       5000       Tolmene (108-88-3)       31.2       62.5       800       Avalue of ""         Ethyl ether (10-41-4)       31.2       62.5       5000       Tolmene (108-88-3)       31.2       62.5       2170       MMJ testing guidelines.         Ethyl ether (10-41-4)       31.2       62.5       500       Tolmene (108-88-3)       31.2       62.5       2170       means that analyt is not currently regulated by the othocide         Ethyl enzene (100-41-4)       31.2       62.5       50       Xylenee (5-47-6)       31.2       62.5	. ,					· · · · ·	_				
Dimethylsulfoxide (67-68-5)       31.2       62.5       5000       1-Propanol (71-23-8)       -       31.2       62.5       5000       Action levels are referenced from the S         1,4-Dioxane (123-91-1)       -       31.2       62.5       5000       Action levels are referenced from the S         2-Ethosol (64-17-5)       -       31.2       62.5       5000       Tetramethylene sulfone (126-33-0)       10.9       21.9       200       Action levels are referenced from the S         2-Ethosylethanol (110-80-5)       -       31.2       62.5       5000       Tetramethylene sulfone (126-33-0)       10.9       21.9       160       MMJ testing guidelines.         Ethyl ether (60-29-7)       -       31.2       62.5       5000       rottene (108-88-3)       -       31.2       62.5       890         Ethyl benzene (100-41-4)       -       31.2       62.5       2170       mass than alve       for the action leve         Ethylene glycol (107-21-1)       -       31.2       62.5       200       106-42-3)       31.2       62.5       2170       means that alave         Ethylene glycol (107-21-1)       -       31.2       62.5       62.0       106-42-3)       31.2       62.5       2170       means that alave         Et		-	31.2	62.5	880		_				
1.4-Dioxane (123-91-1)31.262.5380Pyridine (10-86-1)1010.921.9200Includin (10-80-1)10.921.9200Includin (10-80-1)10.921.9200Includin (10-80-1)10.921.9200Includin (10-80-1)10.921.9200Includin (10-80-1)10.921.9200Includin (10-80-1)10.921.9200Includin (10-80-1)Includin (10-80-1)10.921.9200Includin (10-80-1)Includin (10-80-1) <t< td=""><td></td><td>-</td><td>31.2</td><td>62.5</td><td>5000</td><td>1-Propanol (71-23-8)</td><td>-</td><td>31.2</td><td>62.5</td><td>5000</td><td>U U</td></t<>		-	31.2	62.5	5000	1-Propanol (71-23-8)	-	31.2	62.5	5000	U U
Ethanol (64-17-5)31.2 $62.5$ $5000$ Tetrahydrofuran (109-99-9) $3.1.2$ $62.5$ $720$ Arkansar2-Ethoxyethanol (110-80-5)10.921.9160Tetramethylene sulfone $10.9$ $21.9$ $10.9$ <td></td> <td>-</td> <td>31.2</td> <td>62.5</td> <td>380</td> <td></td> <td>-</td> <td></td> <td></td> <td></td> <td>referenced from the State of</td>		-	31.2	62.5	380		-				referenced from the State of
2-Ethoxyethanol (110-80-5)10.921.9160Teramethylene sulfone (126-33-0)10.921.9160MMJ testing guidelines.Ethyl ether (60-29-7)31.262.55000Toluene (108-88-3)31.262.5890Ethyl acetate (141-78-6)31.262.55000 $\circ$ -Xylene (95-47-6)31.262.52170A value of "-" for the action lev means that analy 106-42-3)31.262.52170A value of "-" for the action lev means that analy is not currently regulated by the regulated by the regulated by the regulated by the regulations referencedSolventSymony(s)SolventSolventSymony(s)Image the solventSymony(s)Image the solventSolventSymony(s)Image the solventSolventSymony(s)Image the solventSolventSimon solventImage the solventSolventSimon solventImage the solventSimon solventImage the solventSolventSimon solventImage the solventSolventSimon solventImage the solventSolventSimon solventImage the solventSolventSimon solventImage the solventSolventSimon solventSolventSimon solventSolventSimon 		-	31.2	62.5	5000	, , , , , , , , , , , , , , , , , , ,	-	31.2	62.5	720	
Ethyl ether (60-29-7)       31.2       62.5       5000       Toluene (108-88-3)       31.2       62.5       890         Ethyl acetate (141-78-6)       31.2       62.5       5000       o-Xylene (95-47-6)       31.2       62.5       2170       A value of "-"         Ethyl benzene (100-41-4)       31.2       62.5       2170       m.p-Xylene (108-38-3 or 106-42-3)       31.2       62.5       2170       means that analytis is not currently regulated by the regulate	. ,	-	10.9	21.9	160		-	10.9	21.9	160	8
Ethyl acetate (141-78-6)31.2 $62.5$ $500$ $o$ -Xylene (95-47-6) $31.2$ $62.5$ $2170$ A value of "-" for the action lev means that analyt is not currently regulated by the regulated	Ethyl ether (60-29-7)	-	31.2	62.5	5000	· · · ·		21.2	60 E	800	guidelines.
Ethyl benzene (100-41-4)       31.2       62.5       2170       for the action lew m.p.Xylene (108-38-3 or 106-42-3)       31.2       62.5       2170       means that analytic is not currently is not currently is not currently regulated by the regulated by th	Ethyl acetate (141-78-6)	-	31.2	62.5	5000	· · · · ·	-				A value of "-"
Ethylene glycol (107-21-1)31.262.5620106-42-3)31.262.52170Internst that analysis is not currently regulated by the regulated by the regulated by the regulated by the regulations referencedEthylene oxide (75-21-8)Synonym(s)SolventSynonym(s)12043.386.72170Internst that analysis is not currently regulated by the regulated by the regulated by the regulated by the regulations referencedSolventSynonym(s)SolventSolventSynonym(s)Internst that analysis is not currently regulated by the regulated by the regulated by the regulated by the regulations referencedAcetonitrileMethyl Cyaride, ACNEthylene glycol1,2-Ethanediol2-Methylpropane1-Butanoln-Butanol, Butyl AlcoholIsopropanol, IPAIsopropanol, IPAIsopropanol, IPA2-ButanoneMethyl ethyl ethone, MEXIsopropyl AcetateAcetic acid isopropyl esterIsopropanol, IPA2,-DimethoxyethaneMonoglyme2-MethylbutaneIsopropanol, IPAIsopropanol, IPAIsopropanol, IPA2,3-DimethylbutaneMethyl ethone, MEXIsopropanol, IPAIsopropanol, IPAIsopropanol, IPA2,3-DimethylbutaneMethyl ethone, MEXIsopropanol, IPAIsopropanol, IPAIsopropanol, IPA2,3-DimethylbutaneMethyl ethone, MEXIsopropanol, IPAIsopropanol, IPAIsopropanol, IPA1,2-DimethylbutaneMethyl ethone, MEXIsopropanol, IPAIsopropanol, IPAIsopropanol, IPA1,3-DimethylbutaneMethyl ethone, MEXIsopropanol, IPAIsopropanol, IPAIsopropanol	Ethyl benzene (100-41-4)	-	31.2	62.5	2170	, , ,		51.2	02.5	2170	for the action level
Ethylene oxide (75-21-8) 3.12 6.25 50 Xylenes* (1330-20-7) 43.3 86.7 2170 regulated by the regulations referenced     Solvent Synonym(s)     Solvent Methyl Cyanide, ACN Ethylene glycol 1,2-Ethanediol     1-Butanol n-Butanol, Butyl Alcohol Isobutane 2-Methylpropane     2-Butanol sec-Butyl alcohol Isopropanol 2-Propanol, IPA     2-Butanone Methyl tetone, MEK Isopropal Acetate Acetic acid isopropyl ester   1,2-Dimethylbutane Nonoglyme Methylune Isopropal   2,3-Dimethylbutane Diisopropyl Methylene chloride Dichoromethane   N,N-Dimethylformanide DMF 2-Methylpentane Isobexane	Ethylene glycol (107-21-1)	-	31.2	62.5	620		-	31.2	62.5	2170	means that analyte
SolventSynonym(s)SolventSynonym(s)AcetonitrileMethyl Cyanide, ACNEthylene glycol1,2-Ethanediol1-Butanoln-Butanol, Butyl AlcoholIsobutane2-Methylpropane2-Butanolsec-Butyl alcoholIsopropanol2-Propanol, IAPA2-ButanoneMethyl Ethylene, MEKIsopropal AcetateAcetic acid isopropyl ester1,2-DimethoxyethaneMonoglymeMethyl MathemaMethylene, MEK2,3-DimethylbutaneNohexane2-MethylbutaneIsopropyl Comethylene1,3-DimethylbutaneDiffMethylene, MEKIsopropyl Comethylene1,N-DimethylformanideDMF2-MethylpentaneIsobexane	Ethylene oxide (75-21-8)	-	3.12	6.25	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, MEKIsopropyl AcetateAcetic acid isopropyl ester1,2-DimethoxyethaneMonoglymeMethanolMethyl alcohol2,3-DimethylbutaneNeohexane2-MethylbutaneIsopropyl0,N-DimethylformamideDMF2-MethylpentaneDichoromethane1,2-DimethylformamideDMF2-MethylpentaneIsoperane	Solvent		Synonym(s	5)		<u>Solvent</u>	5	Synonym(s)			regulations referenced above.
2-Butanolsec-Butyl alcoholIsopropanol2-Propanol, IPA2-ButanoneMethyl ethyl ketone, MEKIsopropyl AcetateAcetic acid isopropyl ester1,2-DimethoxyethaneMonoglymeMethanolMethyl alcohol2,3-DimethylbutaneNeohexane2-MethylbutaneIsopentane2,3-DimethylbutaneDiisopropylMethylene chlorideDichloromethaneN,N-DimethylformamideDMF2-MethylpentaneIsohexane	Acetonitrile		Methyl Cya	anide, ACN		Ethylene glycol	1	1,2-Ethanediol			
2-ButanoneMethyl ethyl ketone, MEKIsopropyl AcetateAcetic acid isopropyl ester1,2-DimethoxyethaneMonoglymeMethanolMethyl alcohol2,3-DimethylbutaneNeohexane2-MethylbutaneIsopentane2,3-DimethylbutaneDiisopropylMethylene chlorideDichloromethaneN,N-DimethylformamideDMF2-MethylpentaneIsohexane	1-Butanol				hol		2	2-Methylpropa	ne		
2-ButanoneMethyl ketone, MEKIsoropyl AcetateAcetic acid isopropyl ester1,2-DimethoxyethaneMonoglymeMethanolMethyl alcohol2,3-DimethylbutaneNeohexane2-MethylbutaneIsopentane2,3-DimethylbutaneDiisopropylMethylene chlorideDichloromethaneN,N-DimethylformanideDMF2-MethylpentaneIsohexane	2-Butanol			5		Isopropanol		5 1 1			
1,2-DimethoxyethaneMonoglymeMethanolMethylalcohol2,3-DimethylbutaneNeohexane2-MethylbutaneIsopentane2,3-DimethylbutaneDiisopropylMethylene chlorideDichloromethaneN,N-DimethylformamideDMF2-MethylpentaneIsohexane	2-Butanone		5		1EK					r	
2,3-DimethylbutaneNeohexane2-MethylbutaneIsopentane2,3-DimethylbutaneDiisopropylMethylene chlorideDichloromethaneN,N-DimethylformamideDMF2-MethylpentaneIsohexane	1.2-Dimethoxyethane										
2,3-DimethylbutaneDiisopropylMethylene chlorideDichloromethaneN,N-DimethylformamideDMF2-MethylpentaneIsohexane			0,0					5			
N,N-Dimethylformamide DMF 2-Methylpentane Isohexane						5		1			
						5					
Dimethysufoxide DMSO 1-Pentanol n-Amyl alcohol	Dimethysufoxide		DMSO			1-Pentanol					
2-Ethoxyethanol Cellosolve, Ethyl glycol 1-Propanol Propyl alcohol	•			, Ethyl glvc	ol			-			
Ethyl ether Diethyl ether, Ether Tetrahydrofuran THF	5										
Ethyl acetate EtOAc Tetramethylene sulfone Sulfolane	•		5	,		-					
Ethyl benzene Phenylethane Xylene Dimethylbenzene	5			ne		-			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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Analyzed on behalf of:

**Deviations from SOP:** 

None



# **CERTIFICATE OF ANALYSIS (SAMPLE ID: SA37758)**

Testing Location:	Customer ID: 2168	Order ID: OR10983	Sample Type: Primary
Arkansas	<b>River Valley Relief MIPS</b>	Lot Number:	Matrix: Concentrate
232 S. Broadview St.	5601 Old Greenwood Rd Suite C	M00065C13244949416	Mass: 4units
Greenbrier, AR 72058	Fort Smith, AR 72903	Production Run:	Date Collected: 04/29/2024
License: ADH 113	License: 00065C	E20240426E85LS01	Date Received: 04/29/2024
Cultivar (Strain) or Sample	Date Completed: 05/01/2024		

## Analysis Date/Time: 04/30/2024 2051 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> <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> Level (µg/g)	
Abamectin (71751-41-2)	-	0.0475	0.380	0.5	Kresoxim-methyl		0.0475	0.380	0.4	
Acephate (30560-19-1)	-	0.0475	0.380	0.4	(143390-89-0)	-				
Acequinocyl (57960-19-7)	-	0.0475	0.380	2	Malathion (121-75-5)	-	0.0475	0.380	0.2	
Acetamiprid (135410-20-7)	-	0.0475	0.380	0.2	Metalaxyl (57837-19-1) Methiocarb (2032-65-7)	-	0.0475 0.0475	0.380 0.380	0.2 0.2	<u>Color Key</u>
Aldicarb (116-06-3)	-	0.0475	0.380	0.4	Methomyl (16752-77-5)	-	0.0475	0.380	0.4	<b>RESULT &lt; AL</b>
Azoxystrobin (131860-33-8)	-	0.0475	0.380	0.2	Methyl parathion (298-0-0)	-	0.0475	0.380	0.2	<b>RESULT &gt; AL</b>
Bifenazate (149877-41-8)	-	0.0475	0.380	0.2	MGK 264 (113-48-4)	-	0.0475	0.380	0.2	"DET" detected less than LOQ
Bifenthrin (82657-04-3)	-	0.0475	0.380	0.2	Myclobutanil	_	0.0475	0.380	0.2	"-" not detected above
Boscalid (188425-85-6)	-	0.0475	0.380	0.4	(88671-89-0)					LOD
Carbaryl (63-25-2)	-	0.0475	0.380	0.2	Naled (300-76-5)	-	0.0475	0.380	0.5	Permethrins measured as the
Carbofuran (1563-66-2)	-	0.0475	0.380	0.2	Oxamyl (23135-22-0)	-	0.0475	0.380	1	cumulative residue of the <i>cis</i> - and
Chlorantraniliprole (800008-45-7)	-	0.0475	0.380	0.2	Paclobutrazol (76738-62-0)	-	0.0475	0.380	0.4	<i>trans</i> - permethrin isomers.
Chlorfenapyr		0.0475	0.380	1	Permethrins (52645-53-1)	-	0.0475	0.380	0.2	Pyrethrins measured as the cumulative residue of the
(122453-73-0)					Phosmet (732-11-6)	-	0.0475	0.380	0.2	pyrethrin I, cinerin I, and jasmolin
Chlorpyrifos (2921-88-2)	-	0.0475	0.380	0.2	Piperonyl butoxide (51-03-6)	-	0.0475	0.380	2	I isomers.
Clofentezine (74115-24-5)	-	0.0475	0.380	0.2	(31-03-0) Prallethrins (2331-36-9)		0.0475	0.380	0.2	Action levels are referenced from
Cyfluthrin (68359-37-5)	-	0.0475	0.380	1	Propiconazole					the
Cypermethrin (52315-07-8)	-	0.0475	0.380	1	(60207-90-1))	-	0.0475	0.380	0.4	State of Arkansas MMJ testing guidelines.
Daminozide (1596-84-5)	-	0.0475	0.380	1	Propoxur (114-26-1)	-	0.0475	0.380	0.2	A value of "-" for the action level
DDVP (62-73-7)	-	0.0475	0.380	0.1	Pyrethrins (8003-34-7)	-	0.0475	0.380	1	means that analyte is not
Diazinon (333-41-5)	-	0.0475	0.380	0.2	Pyridaben (96489-71-3)	-	0.0475	0.380	0.2	currently regulated by the regulations referenced above.
Dimethoate (60-51-5)	-	0.0475	0.380	0.2	Spinosad (168316-95-8)	-	0.0475	0.380	0.2	5
Ethoprophos (13194-48-4)	-	0.0475	0.380	0.2	Spiromesifen (283594-90-1)	-	0.0475	0.380	0.2	<i>Disclaimer:</i> This information is provided as a service and makes
Etofenprox (80844-07-1)	-	0.0475	0.380	0.4	Spirotetramat					no claims of efficacy and/or safety
Etoxazole (153233-91-1)	-	0.0475	0.380	0.2	(203313-25-1)	-	0.0475	0.380	0.2	of this product. Results are
Fenoxycarb (72490-01-8)	-	0.0475	0.380	0.2	Spiroxamine	_	0.0475	0.380	0.4	applicable only for the sample(s) analyzed and for the specific
(E)-Fenpyroximate (134098-61-6)	-	0.0475	0.380	0.4	(118134-30-8) Tebuconazole		0.0475	0.380	0.4	analysis conducted. This report is for informational purposes only
Fipronil (120068-37-3)	-	0.0475	0.380	0.4	(80443-41-0)		0.0473	0.300	0.4	and should not be used to
Flonicamid (158062-67-0)	-	0.0475	0.380	1	Thiacloprid (111988-49-9)	-	0.0475	0.380	0.2	diagnose, treat, or prevent any medical-related symptoms. The
Fludioxinil (131341-86-1)	-	0.0475	0.380	0.4	(111988-49-9) Thiamethoxam					statements and results herein have
Hexythiazox (78587-05-0)	-	0.0475	0.380	1	(153719-23-4)	-	0.0475	0.380	0.2	not been approved and/or endorsed by the FDA.
Imazalil (35554-44-0)	-	0.0475	0.380	0.2	Trifloxystrobin		0.0475	0.200	0.2	endorsed by the FDA.
Imidacloprid (138261-41-3)	-	0.0475	0.380	0.4	(141517-21-7)	-	0.0475	0.380	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

<u>Pesticide</u>	Synonym(s)	Pesticide	Synonym(s)	Pesticide
Cyfluthrin	Baythroid	Myclobutanil	Systhane	Propiconazole
DDVP	Dichlorvos	Naled	Dibrom	Propoxur
Ethoprophos	Prophos	Phosmet	Imidan	



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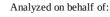


<u>Synonym(s)</u> Tilt Baygon

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Testing Location:	Customer ID: 2168	<b>Order ID:</b> OR10983	Sample Type: Primary
Arkansas	River Valley Relief MIPS	Lot Number:	Matrix: Concentrate
232 S. Broadview St.	5601 Old Greenwood Rd Suite C	M00065C13244949416	Mass: 4units
Greenbrier, AR 72058	Fort Smith, AR 72903	Production Run:	Date Collected: 04/29/2024
License: ADH 113	License: 00065C	E20240426E85LS01	Date Received: 04/29/2024
Cultivar (Strain) or Sample Description: E85 Indica Hybrid Live Sugar			Date Completed: 05/01/2024

#### HEAVY METAL PROFILE (SOP: SOP-ICP-200.6)

Analysis Date/Time: 04/30/2024 1930 (ICP/OES) Analysis Date/Time: - (DMA) Analyst: KF		<b>Method:</b> ICP/MS <b>Instrument:</b> Agilent 7500ce		<b>Deviations from SOP:</b> e 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)	-	56.2	88.9	200	
Cadmium (Cd)	-	56.2	88.9	200	
Lead (Pb)	-	56.2	88.9	500	
Mercury (Hg)	-	56.2	88.9	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.

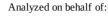
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Testing Location:	Customer ID: 2168	Sample ID: SA37758	Sample Type: Primary
Arkansas	<b>River Valley Relief MIPS</b>	Lot Number:	Matrix: Concentrate
232 S. Broadview St.	5601 Old Greenwood Rd Suite C	M00065C13244949416	Mass: 4units
Greenbrier, AR 72058	Fort Smith, AR 72903	<b>Production Run:</b>	Date Collected: 04/29/2024
License: ADA 05_H273	License: 00065C	E20240426E85LS01	Date Received: 04/29/2024
Cultivar (Strain) or Sample Description: E85 Indica Hybrid Live Sugar			Date Completed: 05/01/2024

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

Analysis Date/Time: 04/30/20 Analyst: PW		ardy Diagnostics CompactD It: 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	-	
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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