







## SUMMARY OF ANALYSIS (SAMPLE ID: SA34610)

Testing Location:	Customer ID: 2161	Order ID: OR10335	Sample Type: Primary
Arkansas	River Valley Relief Cultivation	Lot Number:	Matrix: Flower
232 S. Broadview St.	5601 Old Greenwood Rd Suite C	M00065C13132298989	Mass: 23g
Greenbrier, AR 72058	Fort Smith, AR 72903	Production Run:	Date Collected: 03/06/2023
License: ADH 113	License: 00065C	4025H20230202SMC-1	Date Received: 03/07/2023
Cultivar (Strain) or Sample Des	cription: SunMac		Date Completed: 03/13/2023

\*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.

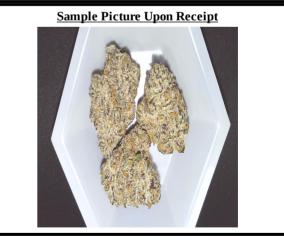
Moisture Content (%)	Water Activity (aw)	PASS/FAIL
13.7	0.534 @ 24.6°C	PASS

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	28.6	286
CBGA	1.61	16.1
Δ9-ΤΗϹ	0.527	5.27
TOTAL CBD	-	-
TOTAL THC	25.6	256
TOTAL CANNABINOIDS	31.1	311
<u>Terpenes (Top 5)</u>	<u>(%)</u>	<u>µg/g</u>
<u><b>Terpenes (Top 5)</b></u> Caryophyllene oxide	<u>(%)</u> 0.434	<mark>µg/g</mark> 4340
Caryophyllene oxide	0.434	4340
Caryophyllene oxide d-Limonene	0.434 0.239	4340 2390
Caryophyllene oxide d-Limonene Linalool	0.434 0.239 0.199	4340 2390 1990

<b>Contaminants</b>	PASS/FAIL
Heavy Metals:	PASS
Microbiology:	PASS
Pesticides:	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: SA34610)**

Testing Location:	Customer ID: 2161	Order ID: OR10335	Sample Type: Primary
Arkansas	<b>River Valley Relief Cultivation</b>	Lot Number:	Matrix: Flower
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Greenbrier, AR 72058	Fort Smith, AR 72903	Production Run:	Date Collected: 03/06/2023
License: ADH 113	License: 00065C	4025H20230202SMC-1	Date Received: 03/07/2023
Cultivar (Strain) or Sample D	Description: SunMac		Date Completed: 03/13/2023

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

Analysis Date/Time: 3/8/2023 1647 Analyst: PW Method: HPLC/DAD Instrument: Agilent 1100

<u>Cannabinoid</u>	<u>Result</u> (%)	<u>Result</u> (mg/g)	LOD (mg/g)	<u>LOQ</u> (mg/g)	<u>Result</u> (mg/ <u>mL)</u>	<u>Per</u> <u>Serving</u> (mg)	<u>Per</u> 5 <u>Unit</u> ( <u>mg)</u>
CBC	ND	ND	0.213	0.498	-	-	-
CBCA	0.294	2.94	0.662	1.55	-	2.94	2.94
CBD	ND	ND	1.50	3.51	-	-	-
CBDA	ND	ND	0.554	1.29	-	-	-
CBDV	ND	ND	0.241	0.563	-	-	-
CBDVA	ND	ND	0.644	1.50	-	-	-
CBG	<loq< td=""><td><loq< td=""><td>0.977</td><td>2.28</td><td>-</td><td>-</td><td>-</td></loq<></td></loq<>	<loq< td=""><td>0.977</td><td>2.28</td><td>-</td><td>-</td><td>-</td></loq<>	0.977	2.28	-	-	-
CBGA	1.61	16.1	0.700	1.63	-	16.1	16.1
CBL	ND	ND	1.13	2.63	-	-	-
CBN	ND	ND	0.518	1.21	-	-	-
CBNA	<loq< td=""><td><loq< td=""><td>0.560</td><td>1.30</td><td>-</td><td>-</td><td>-</td></loq<></td></loq<>	<loq< td=""><td>0.560</td><td>1.30</td><td>-</td><td>-</td><td>-</td></loq<>	0.560	1.30	-	-	-
Δ9-ΤΗC	0.527	5.27	0.621	1.45	-	5.27	5.27
$\Delta 8$ -THC	ND	ND	0.969	2.26	-	-	-
THCA	28.6	286	0.337	0.788	-	286	286
THCV	ND	ND	0.808	1.88	-	-	-
THCVA	0.0883	0.883	0.258	0.601	-	0.883	0.883
TOTAL	31.1	311			-	311	311
TOTAL CBC	0.258	2.58				2.58	2.58
TOTAL CBD	-	-			-	-	-
TOTAL CBDV	-	-			-	-	-
TOTAL CBG	1.41	14.1			-	14.1	14.1
TOTAL CBN	-	-			-	-	-
TOTAL THC	25.6	256			-	256	256
TOTAL THCV	0.0766	0.766			-	0.766	0.766

\* 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 (%): 13.7 Water Activity (aw): 0.534 @ 24.55°C



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 Directo

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# **CERTIFICATE OF ANALYSIS (SAMPLE ID: SA34610)**

Testing Location:	Customer ID: 2161	Orde		
Arkansas	River Valley Relief Cultivation	Lot N		
232 S. Broadview St.	5601 Old Greenwood Rd Suite C	M000		
Greenbrier, AR 72058	Fort Smith, AR 72903	Prod		
License: ADH 113	License: 00065C	40251		
Cultivar (Strain) or Sample Description: SunMac				

Order ID: OR10335 Lot Number: 400065C13132298989 Production Run: 025H20230202SMC-1 Sample Type: Primary Matrix: Flower Mass: 23g Date Collected: 03/06/2023 Date Received: 03/07/2023 Date Completed: 03/13/2023

Analysis Date/Time:03/ Analyst: KF	/12/2023 1801		<b>ethod:</b> GC/MS s <b>trument:</b> Agilent 7890/5975	<b>Deviations from SOP:</b> None
<u>Terpene</u>	<u>Result</u> (µg/g)	<u>Result</u> (%)		
α-Bisabolol	-	-		
Camphene	253	0.0253		DEN ASA
δ-3-Carene	-	-		
β-Caryophyllene	1800	0.180		
Caryophyllene oxide	4340	0.434	-	Mart Co
p-Cymene	-	-		
Eucalyptol	-	-		A A A A A A A A A A A A A A A A A A A
Geraniol	-	-		
Guaiol	-	-		Abbreviations: GC - Gas
α-Humulene	779	0.0779		Chromatography, MS - Mass
Isopulegol	-	-		Spectrometry, RL - Reporting Limit
d-Limonene	2390	0.239		This information is provided as a service and makes no claims of efficacy and/or
Linalool	1990	0.199		safety of this product.
β-Myrcene	296	0.0296	1	Results are applicable only for the sample(s) analyzed and for the specific
cis-Nerolidol	-	-		analysis conducted.
trans-Nerolidol	228	0.0228		This report is for informational purposes only and should not be used to diagnose,
α-Ocimene	-	-		treat, or prevent any
β-Ocimene	-	-		medical-related symptoms.
α-Pinene	402	0.0402		The statements and results herein have not been approved and/or endorsed by
β-Pinene	591	0.0591		the FDA.
α-Terpinene	-	-		
γ-Terpinene	-	-		
Terpinolene	223	0.0223		"-" Not detected above RL.
TOTAL	13300	1.33		<b>Reporting Limit (µg/g): 42.8</b>

### **TERPENOID PROFILE**













**Deviations from SOP:** 

None

## **CERTIFICATE OF ANALYSIS (SAMPLE ID: SA34610)**

Testing Location:	Customer ID: 2161	Order ID: OR10335	Sample Type: Primary
Arkansas	River Valley Relief Cultivation	Lot Number:	Matrix: Flower
232 S. Broadview St.	5601 Old Greenwood Rd Suite C	M00065C13132298989	Mass: 23g
Greenbrier, AR 72058	Fort Smith, AR 72903	Production Run:	Date Collected: 03/06/2023
License: ADH 113	License: 00065C	4025H20230202SMC-1	Date Received: 03/07/2023
Cultivar (Strain) or Sample	Description: SunMac		Date Completed: 03/13/2023

## Analysis Date/Time: 03/08/2023 2226 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)	Pesticide	<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)	-	0.0428	0.342	0.5	Kresoxim-methyl	_	0.0428	0.342	0.4	
Acephate (30560-19-1)	-	0.0428	0.342	0.4	(143390-89-0)					
Acequinocyl (57960-19-7)	-	0.0428	0.342	2	Malathion (121-75-5)	-	0.0428	0.342	0.2	A CONTRACTOR
Acetamiprid (135410-20-7)	-	0.0428	0.342	0.2	Metalaxyl (57837-19-1) Methiocarb (2032-65-7)	-	0.0428 0.0428	0.342 0.342	0.2 0.2	<u>Color Key</u>
Aldicarb (116-06-3)	-	0.0428	0.342	0.4	Methomyl (16752-77-5)	-	0.0428	0.342	0.4	<b>RESULT &lt; AL</b>
Azoxystrobin (131860-33-8)	-	0.0428	0.342	0.2	Methyl parathion (298-0-0)	-	0.0428	0.342	0.2	RESULT > AL
Bifenazate (149877-41-8)	-	0.0428	0.342	0.2	MGK 264 (113-48-4)	-	0.0428	0.342	0.2	"DET" detected less than LOQ
Bifenthrin (82657-04-3)	-	0.0428	0.342	0.2	Myclobutanil		0.0428	0.342	0.2	"-" not detected above
Boscalid (188425-85-6)	-	0.0428	0.342	0.4	(88671-89-0)					LOD
Carbaryl (63-25-2)	-	0.0428	0.342	0.2	Naled (300-76-5)	-	0.0428	0.342	0.5	
Carbofuran (1563-66-2)	-	0.0428	0.342	0.2	Oxamyl (23135-22-0)	-	0.0428	0.342	1	Permethrins measured as the cumulative residue of the <i>cis</i> - and
Chlorantraniliprole (800008-45-7)	-	0.0428	0.342	0.2	Paclobutrazol (76738-62-0)	-	0.0428	0.342	0.4	trans-permethrin isomers.
Chlorfenapyr		0.0428	0.342	1	Permethrins (52645-53-1)	-	0.0428	0.342	0.2	Pyrethrins measured as the cumulative residue of the
(122453-73-0)	-	0.0428	0.342	1	Phosmet (732-11-6)	-	0.0428	0.342	0.2	pyrethrin I, cinerin I, and jasmolin
Chlorpyrifos (2921-88-2)	-	0.0428	0.342	0.2	Piperonyl butoxide	_	0.0428	0.342	2	I isomers.
Clofentezine (74115-24-5)	-	0.0428	0.342	0.2	(51-03-6) Duallathaine (2221-26-0)		0.0420	0.342	0.2	Action levels are referenced from
Cyfluthrin (68359-37-5)	-	0.0428	0.342	1	Prallethrins (2331-36-9)	-	0.0428	0.342	0.2	the
Cypermethrin (52315-07-8)	-	0.0428	0.342	1	Propiconazole (60207-90-1))	-	0.0428	0.342	0.4	State of Arkansas MMJ testing guidelines.
Daminozide (1596-84-5)	-	0.0428	0.342	1	Propoxur (114-26-1)	-	0.0428	0.342	0.2	A value of "-" for the action level
DDVP (62-73-7)	-	0.0428	0.342	0.1	Pyrethrins (8003-34-7)	-	0.0428	0.342	1	means that analyte is not
Diazinon (333-41-5)	-	0.0428	0.342	0.2	Pyridaben (96489-71-3)	-	0.0428	0.342	0.2	currently regulated by the regulations referenced above.
Dimethoate (60-51-5)	-	0.0428	0.342	0.2	Spinosad (168316-95-8)	-	0.0428	0.342	0.2	regulations referenced above.
Ethoprophos (13194-48-4)	-	0.0428	0.342	0.2	Spiromesifen (283594-90-1)	-	0.0428	0.342	0.2	Disclaimer: This information is
Etofenprox (80844-07-1)	-	0.0428	0.342	0.4	Spirotetramat					provided as a service and makes no claims of efficacy and/or safety
Etoxazole (153233-91-1)	-	0.0428	0.342	0.2	(203313-25-1)	-	0.0428	0.342	0.2	of this product. Results are
Fenoxycarb (72490-01-8)	-	0.0428	0.342	0.2	Spiroxamine		0.0428	0.342	0.4	applicable only for the sample(s) analyzed and for the specific
(E)-Fenpyroximate (134098-61-6)	-	0.0428	0.342	0.4	(118134-30-8) Tebuconazole		0.0428	0.342		analysis conducted. This report is for informational purposes only
Fipronil (120068-37-3)	-	0.0428	0.342	0.4	(80443-41-0)	-	0.0428	0.342	0.4	and should not be used to
Flonicamid (158062-67-0)	-	0.0428	0.342	1	Thiacloprid	-	0.0428	0.342	0.2	diagnose, treat, or prevent any medical-related symptoms. The
Fludioxinil (131341-86-1)	-	0.0428	0.342	0.4	(111988-49-9)					statements and results herein have
Hexythiazox (78587-05-0)	-	0.0428	0.342	1	Thiamethoxam (153719-23-4)	-	0.0428	0.342	0.2	not been approved and/or
Imazalil (35554-44-0)	-	0.0428	0.342	0.2	Trifloxystrobin				<b>a</b> -	endorsed by the FDA.
Imidacloprid (138261-41-3)	-	0.0428	0.342	0.4	(141517-21-7)	-	0.0428	0.342	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) Cyfluthrin Baythroid Myclobutanil Systhane Propiconazole DDVP Dichlorvos Naled Dibrom Propoxur Ethoprophos Prophos Phosmet Imidan



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Synonym(s)

Tilt

Baygon

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Greenbrier, AR 72058	Fort Smith, AR 72903	Production Run:	Date Collected: 03/06/2023
License: ADH 113	License: 00065C	4025H20230202SMC-1	Date Received: 03/07/2023
Cultivar (Strain) or Sample I	Description: SunMac		Date Completed: 03/13/2023

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

Analysis Date/Time: 3/10/2023 0901 (ICP/OES)
Analysis Date/Time: - (DMA)
Analyst: KF

Method: ICP/OES Instrument: 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> <u>(µg/kg)</u>
Arsenic (As)	-	59.1	93.6	200
Cadmium (Cd)	-	59.1	93.6	200
Lead (Pb)	-	59.1	93.6	500
Mercury (Hg)	-	59.1	93.6	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

Color Key



"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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Greenbrier, AR 72058	Fort Smith, AR 72903	Production Run:	Date Collected: 03/06/2023
License: ADA 05_H273	License: 00065C	4025H20230202SMC-1	Date Received: 03/07/2023
Cultivar (Strain) or Sample I	Date Completed: 03/13/2023		

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

Analysis Date/Time: 20230309 Analyst: PW		Hardy Diagnostics CompactDry <b>nt:</b> Thermo Incubator	<b>Deviations from SOP:</b> 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	This day 20
Mold/Yeast	NT	-	As and
Pseudomonas aeruginosa	NT	1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Salmonella spp.	NT	-	A AND A A A A A A A A A A A A A A A A A
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





1

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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