







SUMMARY OF ANALYSIS (SAMPLE ID: SA35194)

Testing Location:	Customer ID: 2161	Order ID: OR10451	Sample Type: Primary	
Arkansas	River Valley Relief Cultivation	Lot Number:	Matrix: Flower	
232 S. Broadview St.	5601 Old Greenwood Rd Suite C	M00065C13138886982	Mass: 7g	
Greenbrier, AR 72058	Fort Smith, AR 72903	Production Run:	Date Collected: 05/15/2023	
License: ADH 113	License: 00065C	4032H20230405SMC-3	Date Received: 05/15/2023	
Cultivar (Strain) or Sample Description:SunMacDate CompletedDate CompletedDate CompletedDate Completed				

*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
11.1	0.526 @ 24.4°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.

Cannabinoids (Top 3)	<u>(%)</u>	mg/g
THCA	30.0	300
Δ9-THC	0.255	2.55
CBG	0.151	1.51
TOTAL CBD	-	-
TOTAL THC	26.6	266
TOTAL CANNABINOIDS	30.5	305
<u>Terpenes (Top 5)</u>	<u>(%)</u>	<u>µg/g</u>
<u>Terpenes (Top 5)</u> d-Limonene	(%) 0.328	<mark>µg/g</mark> 3280
d-Limonene	0.328	3280
d-Limonene α-Ocimene	0.328 0.298	3280 2980
d-Limonene α-Ocimene Linalool	0.328 0.298 0.193	3280 2980 1930

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





Scan the QR code to verify results.

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Kyle W. Felling, Ph.D. aboratory Directo

REPORT OF LABORATORY ANALYSIS

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CERTIFICATE OF ANALYSIS (SAMPLE ID: SA35194)

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Arkansas	River Valley Relief Cultivation	Lot Number:	Matrix: Flower
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Greenbrier, AR 72058	Fort Smith, AR 72903	Production Run:	Date Collected: 05/15/2
License: ADH 113	License: 00065C	4032H20230405SMC-3	Date Received: 05/15/20
Cultivar (Strain) or Sample	Date Completed: 05/18/		

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

Analysis Date/Time: 05/16/2023 1747 Analyst: PW

Method: HPLC/DAD Instrument: Agilent 1100

Cannabinoid <u>Result</u> Per Per Result <u>Res</u>ult LOD LOQ Serving Unit <u>(mg/</u> (%) (mg/g) (mg/g)(mg/g)<u>mL)</u> <u>(mg)</u> (mg) CBC ND ND 0.209 0.487 CBCA ND ND 0.648 1.51 CBD ND ND 1.47 3.43 CBDA ND ND 0.542 1.26 CBDV ND ND 0.236 0.551 **CBDVA** ND ND 0.629 1.47 0.955 CBG 0.151 1.51 1.28 1.51 1.51 CBGA ND ND 0.684 1.60 _ CBL ND ND 2.58 1.10 CBN ND ND 0.507 1.18 **CBNA** ND ND 0.547 1.28 $\Delta 9$ -THC 0.255 2.55 0.607 1.42 2.55 2.55 $\Delta 8$ -THC ND ND 0.948 2.21 _ _ 30.0 300 300 THCA 300 0.329 0.770 THCV ND ND 0.790 1.84 _ _ THCVA 0.0821 0.821 0.252 0.587 0.821 0.821 TOTAL 30.5 305 305 305 **TOTAL CBC** _ _ _ -**TOTAL CBD** TOTAL CBDV **TOTAL CBG** 0.151 1.51 1.51 1.51 TOTAL CBN TOTAL THC 26.6 266 266 266 TOTAL THCV 0.0712 0.712 0.712 0.712

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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Flower lected: 05/15/2023 ceived: 05/15/2023 mpleted: 05/18/2023

Moisture Content (%): 11.1 Water Activity (aw): 0.526 @ 24.4°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 = $(CBCA \times 0.877) + CBC$ 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) + 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.













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Greenbrier, AR 72058	Fort Smith, AR 72903	Production Run:		
License: ADH 113	License: 00065C	4032H20230405SMC-3		
Cultivar (Strain) or Sample Description: SunMac				

Sample Type: Primary Matrix: Flower Mass: 7g Date Collected: 05/15/2023 Date Received: 05/15/2023 Date Completed: 05/18/2023

Analysis Date/Time:05/17/2023 2016 Analyst: KF

> <u>Result</u> (µg/g)

> > 125

4.32

1740

_

137

521

_

3280

1930

228

1040

128

2980

1490

412

640

601

Terpene

α-Bisabolol Camphene

δ-3-Carene

Eucalyptol Geraniol Guaiol

α-Humulene

Isopulegol

Linalool

β-Myrcene

cis-Nerolidol

α-Ocimene

β-Ocimene

α-Pinene

β-Pinene

α-Terpinene

trans-Nerolidol

d-Limonene

oxide p-Cymene

β-Caryophyllene

Caryophyllene

TERPENOID PROFILE

Method: GC/MS					
Inst	rument: Agilent 7890/5975				
<u>Result</u> (%)					
-					
0.0125					
0.000432					
0.174					
-					
0.0137					
-					
-					
-					
0.0521	1				

_

0.328

0.193

0.0228

0.104

0.0128

0.298

0.149

0.0412

0.0640

0.0601



Deviations from SOP:

None

Abbreviations: GC - Gas Chromatography, MS - Mass Spectrometry, RL - Reporting Limit

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γ-Terpinene	-	-	
Terpinolene	36.7	0.00367	"-" Not detected above RL.
TOTAL	15300	1.53	Reporting Limit (µg/g): 166













Deviations from SOP:

None

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Cultivar (Strain) or Sample	Date Completed: 05/18/2023		

Analysis Date/Time: 05/17/2023 1609 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> Level (µg/g)	
Abamectin (71751-41-2)	-	0.0457	0.365	0.5	Kresoxim-methyl	_	0.0457	0.365	0.4	
Acephate (30560-19-1)	-	0.0457	0.365	0.4	(143390-89-0)					
Acequinocyl (57960-19-7)	-	0.0457	0.365	2	Malathion (121-75-5)	-	0.0457	0.365	0.2	C.C.
Acetamiprid (135410-20-7)	-	0.0457	0.365	0.2	Metalaxyl (57837-19-1) Methiocarb (2032-65-7)		0.0457 0.0457	0.365 0.365	0.2 0.2	<u>Color Key</u>
Aldicarb (116-06-3)	-	0.0457	0.365	0.4	Methomyl (16752-77-5)	-	0.0457	0.365	0.4	RESULT < AL
Azoxystrobin (131860-33-8)	-	0.0457	0.365	0.2	Methyl parathion (298-0-0)	-	0.0457	0.365	0.2	RESULT > AL
Bifenazate (149877-41-8)	-	0.0457	0.365	0.2	MGK 264 (113-48-4)	-	0.0457	0.365	0.2	"DET" detected less than LOQ
Bifenthrin (82657-04-3)	-	0.0457	0.365	0.2	Myclobutanil	_	0.0457	0.365	0.2	"-" not detected above
Boscalid (188425-85-6)	-	0.0457	0.365	0.4	(88671-89-0)					LOD
Carbaryl (63-25-2)	-	0.0457	0.365	0.2	Naled (300-76-5)	-	0.0457	0.365	0.5	Permethrins measured as the
Carbofuran (1563-66-2)	-	0.0457	0.365	0.2	Oxamyl (23135-22-0)	-	0.0457	0.365	1	cumulative residue of the <i>cis</i> - and
Chlorantraniliprole (800008-45-7)	-	0.0457	0.365	0.2	Paclobutrazol (76738-62-0)	-	0.0457	0.365	0.4	trans- permethrin isomers.
Chlorfenapyr		0.0457	0.365	1	Permethrins (52645-53-1)	-	0.0457	0.365	0.2	Pyrethrins measured as the cumulative residue of the
(122453-73-0)					Phosmet (732-11-6)	-	0.0457	0.365	0.2	pyrethrin I, cinerin I, and jasmolin
Chlorpyrifos (2921-88-2)	-	0.0457	0.365	0.2	Piperonyl butoxide (51-03-6)		0.0457	0.365	2	I isomers.
Clofentezine (74115-24-5)	-	0.0457	0.365	0.2	(51-03-0) Prallethrins (2331-36-9)		0.0457	0.365	0.2	Action levels are referenced from
Cyfluthrin (68359-37-5)	-	0.0457	0.365	1	Propiconazole	-	0.0437	0.303	0.2	the
Cypermethrin (52315-07-8)	-	0.0457	0.365	1	(60207-90-1))	-	0.0457	0.365	0.4	State of Arkansas MMJ testing guidelines.
Daminozide (1596-84-5)	-	0.0457	0.365	1	Propoxur (114-26-1)	-	0.0457	0.365	0.2	A value of "-" for the action level
DDVP (62-73-7)	-	0.0457	0.365	0.1	Pyrethrins (8003-34-7)	-	0.0457	0.365	1	means that analyte is not
Diazinon (333-41-5)	-	0.0457	0.365	0.2	Pyridaben (96489-71-3)	-	0.0457	0.365	0.2	currently regulated by the regulations referenced above.
Dimethoate (60-51-5)	-	0.0457	0.365	0.2	Spinosad (168316-95-8)	-	0.0457	0.365	0.2	
Ethoprophos (13194-48-4)	-	0.0457	0.365	0.2	Spiromesifen (283594-90-1)	-	0.0457	0.365	0.2	Disclaimer: This information is
Etofenprox (80844-07-1)	-	0.0457	0.365	0.4	Spirotetramat					provided as a service and makes no claims of efficacy and/or safety
Etoxazole (153233-91-1)	-	0.0457	0.365	0.2	(203313-25-1)	-	0.0457	0.365	0.2	of this product. Results are
Fenoxycarb (72490-01-8)	-	0.0457	0.365	0.2	Spiroxamine	_	0.0457	0.365	0.4	applicable only for the sample(s) analyzed and for the specific
(E)-Fenpyroximate (134098-61-6)	-	0.0457	0.365	0.4	(118134-30-8) Tebuconazole		0.0457	0.365	0.4	analysis conducted. This report is for informational purposes only
Fipronil (120068-37-3)	-	0.0457	0.365	0.4	(80443-41-0)		0.0457	0.305	0.4	and should not be used to
Flonicamid (158062-67-0)	-	0.0457	0.365	1	Thiacloprid		0.0457	0.365	0.2	diagnose, treat, or prevent any medical-related symptoms. The
Fludioxinil (131341-86-1)	-	0.0457	0.365	0.4	(111988-49-9)					statements and results herein have
Hexythiazox (78587-05-0)	-	0.0457	0.365	1	Thiamethoxam (153719-23-4)	-	0.0457	0.365	0.2	not been approved and/or
Imazalil (35554-44-0)	-	0.0457	0.365	0.2	Trifloxystrobin		0.0455	0.205	0.2	endorsed by the FDA.
Imidacloprid (138261-41-3)	-	0.0457	0.365	0.4	(141517-21-7)		0.0457	0.365	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

www.FASTLaboratories.com









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Arkansas	River Valley Relief Cultivation	Lot Number:	Matrix: Flower
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License: ADH 113	License: 00065C	4032H20230405SMC-3	Date Received: 05/15/2023
Cultivar (Strain) or Sample	Date Completed: 05/18/2023		

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

Analysis Date/T Analysis Date/T Analyst: KF	ime: 05/15/2023 1 [.] ime: - (DMA)	715 (ICP/OES)		thod: ICP/MS trument: Agilent 750	Deviations from SOP: Oce 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)	ALS I
Arsenic (As)	-	58.2	92.1	200	The second
Cadmium (Cd)	-	58.2	92.1	200	A ANTEN
Lead (Pb)	-	58.2	92.1	500	
Mercury (Hg)		58.2	92.1	100	

Abbreviations: ICP - Inductively-Coupled Plasma, OES - Optical Emission Spectroscopy, DMA - Direct Mercury Analyzer, RL - Reporting Limit, AL - Action Level, LOD - Limit of Detection, LOQ - Limit of Quantitation

<u>Color Key</u>



"DET" detected less than LOQ

"-" not detected above LOD

Action levels for heavy metals are referenced from the State of Arkansas MMJ testing guidelines.

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License: ADA 05_H273	License: 00065C	4032H20230405SMC-3	Date Received: 05/15/2023
Cultivar (Strain) or Sample Description: SunMac			Date Completed: 05/18/2023

MICROBIOLOGICAL PROFILE (SOP: SOP-Micro-001)

Analysis Date/Time: 05/16/2023 1213 Analyst: PW		hod: Hardy Diagnostics CompactDry rument: Thermo Incubator	Deviations from SOP: None
Bacteria/Microbe	<u>Result</u> (CFU/g)	<u>Action Level</u> (CFU/g)	en e
Aerobic Plate Count	NT	-	A TAL
Coliforms, Total	Absent	1	a fits
Escherichia Coli (E. Coli)	Absent	100	
Mold/Yeast	NT	-	Contraction of the second
Pseudomonas aeruginosa	NT	1	ENTRY OF BUILD
Salmonella spp.	NT	-	North States
Staphylococcus aureus	NT	-	and the

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

<u>Color Key</u>



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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