







SUMMARY OF ANALYSIS (SAMPLE ID: SA34811)

Testing Location:	Customer ID: 2161	Order ID: OR10373	Sample Type: Primary
Arkansas	River Valley Relief Cultivation	Lot Number:	Matrix: Flower
232 S. Broadview St.	5601 Old Greenwood Rd Suite C	M00065C13133929542	Mass: 21g
Greenbrier, AR 72058	Fort Smith, AR 72903	Production Run:	Date Collected: 03/27/2023
License: ADH 113	License: 00065C	6027H20230227	Date Received: 03/27/2023
Cultivar (Strain) or Sample D	Date Completed: 03/30/2023		

*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.

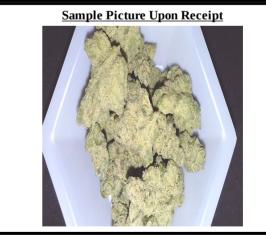
Moisture Content (%)	Water Activity (aw)	PASS/FAIL
12.3	0.448 @ 24.6°C	PASS

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/g</u>
THCA	29.4	294
Δ9-ТНС	1.42	14.2
CBGA	1.13	11.3
TOTAL CBD	-	-
TOTAL THC	27.2	272
TOTAL CANNABINOIDS	32.1	321
<u>Terpenes (Top 5)</u>	<u>(%)</u>	<u>µg∕g</u>
<u>Terpenes (Top 5)</u> Caryophyllene oxide	<u>(%)</u> 0.778	<mark>µg/g</mark> 7780
Caryophyllene oxide	0.778	7780
Caryophyllene oxide Terpinolene	0.778 0.412	7780 4120
Caryophyllene oxide Terpinolene β-Myrcene	0.778 0.412 0.274	7780 4120 2740

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





Scan the QR code to verify results.

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Cultivar (Strain) or Sample Description: Orange 43Date Completed: 03/30/2023				

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

Analysis Date/Time: 3/28/2023 1729 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> (mg) (mg) CBC ND ND 0.215 0.501 CBCA ND ND 0.666 1.55 CBD ND ND 1.51 3.53 CBDA ND ND 0.557 1.30 CBDV ND ND 0.243 0.566 **CBDVA** ND ND 0.647 1.51 CBG ND ND 0.982 2.29 0.704 CBGA 1.13 11.3 11.3 11.3 1.64 CBL ND ND 1.13 2.65 CBN ND ND 0.521 1.22 **CBNA** ND ND 0.563 1.31 $\Delta 9$ -THC 1.42 14.2 0.625 1.46 14.2 14.2 $\Delta 8$ -THC ND ND 0.975 2.28 29.4 294 294 294 THCA 0.339 0.792 THCV ND ND 0.813 1.90 _ -THCVA 0.131 1.31 0.260 0.604 1.31 1.31 TOTAL 32.1 321 321 321 TOTAL CBC _ -_ -**TOTAL CBD** _ TOTAL CBDV 9.92 **TOTAL CBG** 0.992 9.92 9.92 TOTAL CBN _ _ _ -27.2 TOTAL THC 272 272 272 TOTAL THCV 0.113 1.13 1.13 1.13

* 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 (%): 12.3 Water Activity (aw): 0.448 @ 24.65°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.

Kyle W. Felling, Ph.D. boratory Directo

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Greenbrier, AR 72058	Fort Smith, AR 72903	Production Run:		
License: ADH 113	License: 00065C	6027H20230227		
Cultivar (Strain) or Sample Description: Orange 43				

Sample Type: Primary Matrix: Flower Mass: 21g Date Collected: 03/27/2023 Date Received: 03/27/2023 Date Completed: 03/30/2023

Analysis Date/Time:03/29/2023 1821 Analyst: KF

TERPENOID PROFILE

Method: GC/MS Instrument: Agilent 7890/5975

Deviations from SOP: None

<u>Terpene</u>	<u>Result</u> (µg/g)	<u>Result</u> (%)	
α-Bisabolol	517	0.0517	
Camphene	230	0.0230	
δ-3-Carene	264	0.0264	
β-Caryophyllene	836	0.0836	
Caryophyllene oxide	7780	0.778	
p-Cymene	-	-	
Eucalyptol	-	-	
Geraniol	-	-	
Guaiol	2010	0.201	
α-Humulene	197	0.0197	
Isopulegol	-	-	
d-Limonene	1420	0.142	
Linalool	584	0.0584	5
β-Myrcene	2740	0.274	
cis-Nerolidol	-	-	
trans-Nerolidol	106	0.0106	
α-Ocimene	-	-	' t
β-Ocimene	686	0.0686	
α-Pinene	649	0.0649	Í.
β-Pinene	1060	0.106	
α-Terpinene	276	0.0276	
γ-Terpinene	407	0.0407	
Terpinolene	4120	0.412	
TOTAL	23900	2.39	



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

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'-'' Not detected above RL.

Reporting Limit (µg/g): 43.6













Deviations from SOP:

None

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License: ADH 113	License: 00065C	6027H20230227	Date Received: 03/27/2023		
Cultivar (Strain) or Sample	Date Completed: 03/30/2023				

Analysis Date/Time: 03/28/2023 1955 Analyst: KF

PESTICIDES PROFILE (SOP: SOP-PEST-001)

Method: LC/MS/MS Instrument: Shimadzu LC-8050

<u>Pesticide</u>	<u>Result</u> (µg/g)	<u>LOD</u> (µg/g)	<u>LOQ</u> (µg/g)	<u>Action</u> Level (µg/g)	<u>Pesticide</u>	<u>Result</u> (µg/g)	<u>LOD</u> (µg/g)	<u>LOQ</u> (µg/g)	<u>Action</u> <u>Level</u> (µg/g)	
Abamectin (71751-41-2)	-	0.0436	0.349	0.5	Kresoxim-methyl	_	0.0436	0.349	0.4	the tax
Acephate (30560-19-1)	-	0.0436	0.349	0.4	(143390-89-0)					and the second s
Acequinocyl (57960-19-7)	-	0.0436	0.349	2	Malathion (121-75-5)	-	0.0436	0.349	0.2	a second
Acetamiprid (135410-20-7)	-	0.0436	0.349	0.2	Metalaxyl (57837-19-1) Methiocarb (2032-65-7)	-	0.0436 0.0436	0.349 0.349	0.2 0.2	<u>Color Key</u>
Aldicarb (116-06-3)	_	0.0436	0.349	0.4	Methomyl (16752-77-5)	_	0.0436	0.349	0.4	DECHUTZAI
Azoxystrobin (131860-33-8)	-	0.0436	0.349	0.2	Methyl parathion (298-0-0)	-	0.0436	0.349	0.2	RESULT < AL RESULT > AL
Bifenazate (149877-41-8)	-	0.0436	0.349	0.2	MGK 264 (113-48-4)	-	0.0436	0.349	0.2	"DET" detected less than LOQ
Bifenthrin (82657-04-3)	-	0.0436	0.349	0.2	Myclobutanil	_	0.0436	0.349	0.2	"-" not detected above
Boscalid (188425-85-6)	-	0.0436	0.349	0.4	(88671-89-0)	-	0.0430	0.349	0.2	LOD
Carbaryl (63-25-2)	-	0.0436	0.349	0.2	Naled (300-76-5)	-	0.0436	0.349	0.5	
Carbofuran (1563-66-2)	-	0.0436	0.349	0.2	Oxamyl (23135-22-0)	-	0.0436	0.349	1	Permethrins measured as the cumulative residue of the <i>cis</i> - and
Chlorantraniliprole (800008-45-7)	-	0.0436	0.349	0.2	Paclobutrazol (76738-62-0)	-	0.0436	0.349	0.4	trans-permethrin isomers.
Chlorfenapyr		0.0436	0.349	1	Permethrins (52645-53-1)	-	0.0436	0.349	0.2	Pyrethrins measured as the cumulative residue of the
(122453-73-0)	-	0.0436	0.349	1	Phosmet (732-11-6)	-	0.0436	0.349	0.2	pyrethrin I, cinerin I, and jasmolin
Chlorpyrifos (2921-88-2)	-	0.0436	0.349	0.2	Piperonyl butoxide	_	0.0436	0.349	2	I isomers.
Clofentezine (74115-24-5)	-	0.0436	0.349	0.2	(51-03-6)		0.0426	0.240	0.2	Action levels are referenced from
Cyfluthrin (68359-37-5)	-	0.0436	0.349	1	Prallethrins (2331-36-9)	-	0.0436	0.349	0.2	the
Cypermethrin (52315-07-8)	-	0.0436	0.349	1	Propiconazole (60207-90-1))	-	0.0436	0.349	0.4	State of Arkansas MMJ testing guidelines.
Daminozide (1596-84-5)	-	0.0436	0.349	1	Propoxur (114-26-1)	-	0.0436	0.349	0.2	A value of "-" for the action level
DDVP (62-73-7)	-	0.0436	0.349	0.1	Pyrethrins (8003-34-7)	-	0.0436	0.349	1	means that analyte is not
Diazinon (333-41-5)	-	0.0436	0.349	0.2	Pyridaben (96489-71-3)	-	0.0436	0.349	0.2	currently regulated by the regulations referenced above.
Dimethoate (60-51-5)	-	0.0436	0.349	0.2	Spinosad (168316-95-8)	-	0.0436	0.349	0.2	regulations referenced above.
Ethoprophos (13194-48-4)	-	0.0436	0.349	0.2	Spiromesifen (283594-90-1)	-	0.0436	0.349	0.2	Disclaimer: This information is
Etofenprox (80844-07-1)	-	0.0436	0.349	0.4	Spirotetramat					provided as a service and makes no claims of efficacy and/or safety
Etoxazole (153233-91-1)	-	0.0436	0.349	0.2	(203313-25-1)	-	0.0436	0.349	0.2	of this product. Results are
Fenoxycarb (72490-01-8)	-	0.0436	0.349	0.2	Spiroxamine		0.0436	0.349	0.4	applicable only for the sample(s) analyzed and for the specific
(E)-Fenpyroximate (134098-61-6)	-	0.0436	0.349	0.4	(118134-30-8) Tebuconazole	-	0.0436	0.349	0.4	analysis conducted. This report is for informational purposes only
Fipronil (120068-37-3)	-	0.0436	0.349	0.4	(80443-41-0)	-	0.0430	0.349	0.4	and should not be used to
Flonicamid (158062-67-0)	-	0.0436	0.349	1	Thiacloprid	_	0.0436	0.349	0.2	diagnose, treat, or prevent any medical-related symptoms. The
Fludioxinil (131341-86-1)	-	0.0436	0.349	0.4	(111988-49-9)					statements and results herein have
Hexythiazox (78587-05-0)	-	0.0436	0.349	1	Thiamethoxam (153719-23-4)	-	0.0436	0.349	0.2	not been approved and/or
Imazalil (35554-44-0)	-	0.0436	0.349	0.2	Trifloxystrobin		0.0406	0.040	0.0	endorsed by the FDA.
Imidacloprid (138261-41-3)	-	0.0436	0.349	0.4	(141517-21-7)	-	0.0436	0.349	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 Synonym(s) **Pesticide** Synonym(s) **Pesticide** Cyfluthrin Myclobutanil Baythroid Systhane Propiconazole DDVP Dichlorvos Naled Dibrom Propoxur Ethoprophos Prophos Phosmet Imidan



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Synonym(s)

Tilt

Baygon

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Cultivar (Strain) or Sample Description: Orange 43Date Completed: 03/30/2023				

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

Analysis Date/Time: 3/28/2023 1952 (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)	-	55.7	88.1	200
Cadmium (Cd)	-	55.7	88.1	200
Lead (Pb)	-	55.7	88.1	500
Mercury (Hg)	-	55.7	88.1	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	6027H20230227	Date Received: 03/27/2023
Cultivar (Strain) or Sample Description: Orange 43			Date Completed: 03/30/2023

MICROBIOLOGICAL PROFILE (SOP: SOP-Micro-001)

Analysis Date/Time: 03/29/20 Analyst: PW		nod: Hardy Diagnostics CompactDrynument: Thermo Incubator	Deviations from SOP: None
Bacteria/Microbe	<u>Result</u> (CFU/g)	<u>Action Level</u> (CFU/g)	
Aerobic Plate Count	NT	-	1 Mara
Coliforms, Total	Absent	1	
Escherichia Coli (E. Coli)	NT	100	M. P.C.
Mold/Yeast	NT	-	
Pseudomonas aeruginosa	NT	1	
Salmonella spp.	NT	-	A STATE OF A
Staphylococcus aureus	NT	-	Ser 1

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





Reporting Limit (CFU/g) 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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