

**SUMMARY OF ANALYSIS (SAMPLE ID: SA35465)**

<b>Testing Location:</b>	<b>Customer ID:</b> 2161	<b>Order ID:</b> OR10498	<b>Sample Type:</b> Primary
Arkansas	River Valley Relief Cultivation	<b>Lot Number:</b>	<b>Matrix:</b> Flower
232 S. Broadview St.	5601 Old Greenwood Rd Suite C	M00065C13134338435	<b>Mass:</b> 22g
Greenbrier, AR 72058	Fort Smith, AR 72903	<b>Production Run:</b>	<b>Date Collected:</b> 06/19/2023
License: ADH 113	License: 00065C	6034H20230504O43-2	<b>Date Received:</b> 06/20/2023
<b>Cultivar (Strain) or Sample Description:</b> Orange 43			<b>Date Completed:</b> 06/21/2023

\*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 (%)**

12.0

**Water Activity (aw)**

0.464 @ 24.2°C

**PASS/FAIL**

**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.

<b>Cannabinoids (Top 3)</b>	<b>(%)</b>	<b>mg/g</b>
THCA	30.9	309
Δ9-THC	1.55	15.5
CBGA	1.46	14.6
TOTAL CBD	-	-
TOTAL THC	28.6	286
TOTAL CANNABINOIDS	34.3	343

<b>Terpenes (Top 5)</b>	<b>(%)</b>	<b>µg/g</b>
Terpinolene	0.330	3300
β-Myrcene	0.250	2500
d-Limonene	0.0933	933
β-Ocimene	0.0593	593
β-Pinene	0.0481	481
TOTAL TERPENES	0.917	9170

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

**Sample Picture Upon Receipt**



Scan the QR code to verify results.

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*Kyle W. Felling*  
Kyle W. Felling, Ph.D.  
Laboratory Director



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

**Analysis Date/Time:** 06/20/2023 1658

**Method:** HPLC/DAD

**Moisture Content (%):** 12.0

**Analyst:** PW

**Instrument:** Agilent 1100

**Water Activity (aw):** 0.464 @ 24.2°C

<u>Cannabinoid</u>	<u>Result</u> <u>(%)</u>	<u>Result</u> <u>(mg/g)</u>	<u>LOD</u> <u>(mg/g)</u>	<u>LOQ</u> <u>(mg/g)</u>	<u>Result</u> <u>(mg/mL)</u>	<u>Per</u> <u>Serving</u> <u>(mg)</u>	<u>Per</u> <u>Unit</u> <u>(mg)</u>
CBC	ND	ND	0.0447	0.104	-	-	-
CBCA	ND	ND	0.139	0.324	-	-	-
CBD	ND	ND	0.315	0.736	-	-	-
CBDV	ND	ND	0.116	0.271	-	-	-
CBDVA	ND	ND	0.0506	0.118	-	-	-
CBDVA	ND	ND	0.135	0.315	-	-	-
CBG	<LOQ	<LOQ	0.205	0.478	-	-	-
CBGA	1.46	14.6	0.290	0.342	-	14.6	14.6
CBL	ND	ND	0.236	0.552	-	-	-
CBN	ND	ND	0.109	0.254	-	-	-
CBNA	ND	ND	0.117	0.273	-	-	-
Δ9-THC	1.55	15.5	0.130	0.303	-	15.5	15.5
Δ8-THC	ND	ND	0.203	0.474	-	-	-
THCA	30.9	309	0.0706	0.165	-	309	309
THCV	ND	ND	0.169	0.395	-	-	-
THCVA	0.420	4.20	0.0541	0.126	-	4.20	4.20
<b>TOTAL</b>	<b>34.3</b>	<b>343</b>			-	<b>343</b>	<b>343</b>
<b>TOTAL CBC</b>	-	-			-	-	-
<b>TOTAL CBD</b>	-	-			-	-	-
<b>TOTAL CBDV</b>	-	-			-	-	-
<b>TOTAL CBG</b>	1.28	12.8			-	12.8	12.8
<b>TOTAL CBN</b>	-	-			-	-	-
<b>TOTAL THC</b>	28.6	286			-	286	286
<b>TOTAL THC V</b>	0.364	3.64			-	3.64	3.64



**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 = (CBDV 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) + Δ9-THC  
Total THC V = (THCVA x 0.867) + THC V

Percentage results are reported by mass.

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

*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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*Kyle W. Felling*  
Kyle W. Felling, Ph.D.  
Laboratory Director



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### TERPENOID PROFILE

**Analysis Date/Time:** 06/21/2023 0713

**Method:** GC/MS

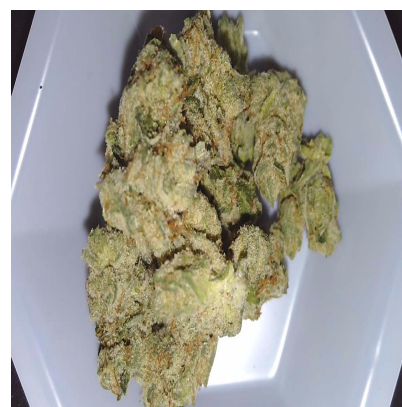
**Deviations from SOP:**

**Analyst:** KF

**Instrument:** Agilent 7890/5975

None

<u>Terpene</u>	<u>Result</u> (µg/g)	<u>Result</u> (%)	
α-Bisabolol	7.00	0.000700	
Camphene	47.2	0.00472	
δ-3-Carene	134	0.0134	
β-Caryophyllene	221	0.0221	
Caryophyllene oxide	-	-	
p-Cymene	-	-	
Eucalyptol	20.3	0.00203	
Geraniol	12.4	0.00124	
Guaiol	-	-	
α-Humulene	70.0	0.00700	
Isopulegol	-	-	
d-Limonene	933	0.0933	
Linalool	155	0.0155	
β-Myrcene	2500	0.250	
cis-Nerolidol	-	-	
trans-Nerolidol	23.1	0.00231	
α-Ocimene	-	-	
β-Ocimene	593	0.0593	
α-Pinene	388	0.0388	
β-Pinene	481	0.0481	
α-Terpinene	172	0.0172	
γ-Terpinene	117	0.0117	
Terpinolene	3300	0.330	
<b>TOTAL</b>	<b>9170</b>	<b>0.917</b>	



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

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"-" Not detected above RL.

**Reporting Limit (µg/g): 101**

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

**Analysis Date/Time:** 06/20/2023 1807

**Analyst:** KF

**Method:** LC/MS/MS

**Instrument:** Shimadzu LC-8050

**Deviations from SOP:**

None

Pesticide	Result (µg/g)	LOD (µg/g)	LOQ (µg/g)	Action Level (µg/g)	Pesticide	Result (µg/g)	LOD (µg/g)	LOQ (µg/g)	Action Level (µg/g)
Abamectin (71751-41-2)	-	0.0488	0.390	0.5	Kresoxim-methyl (143390-89-0)	-	0.0488	0.390	0.4
Acephate (30560-19-1)	-	0.0488	0.390	0.4	Malathion (121-75-5)	-	0.0488	0.390	0.2
Acetaminophen (57960-19-7)	-	0.0488	0.390	2	Metalaxyl (57837-19-1)	-	0.0488	0.390	0.2
Acetamiprid (135410-20-7)	-	0.0488	0.390	0.2	Methiocarb (2032-65-7)	-	0.0488	0.390	0.2
Aldicarb (116-06-3)	-	0.0488	0.390	0.4	Methomyl (16752-77-5)	-	0.0488	0.390	0.4
Azoxystrobin (131860-33-8)	-	0.0488	0.390	0.2	Methyl parathion (298-0-0)	-	0.0488	0.390	0.2
Bifenazate (149877-41-8)	-	0.0488	0.390	0.2	MGK 264 (113-48-4)	-	0.0488	0.390	0.2
Bifenthrin (82657-04-3)	-	0.0488	0.390	0.2	Myclobutanil (88671-89-0)	-	0.0488	0.390	0.2
Boscalid (188425-85-6)	-	0.0488	0.390	0.4	Naled (300-76-5)	-	0.0488	0.390	0.5
Carbaryl (63-25-2)	-	0.0488	0.390	0.2	Oxamyl (23135-22-0)	-	0.0488	0.390	1
Carbofuran (1563-66-2)	-	0.0488	0.390	0.2	Paclobutrazol (76738-62-0)	-	0.0488	0.390	0.4
Chlorantraniliprole (800008-45-7)	-	0.0488	0.390	0.2	Permethrins (52645-53-1)	-	0.0488	0.390	0.2
Chlorfenapyr (122453-73-0)	-	0.0488	0.390	1	Phosmet (732-11-6)	-	0.0488	0.390	0.2
Chlorpyrifos (2921-88-2)	-	0.0488	0.390	0.2	Piperonyl butoxide (51-03-6)	-	0.0488	0.390	2
Clofentezine (74115-24-5)	-	0.0488	0.390	0.2	Prallethrin (2331-36-9)	-	0.0488	0.390	0.2
Cyfluthrin (68359-37-5)	-	0.0488	0.390	1	Propiconazole (60207-90-1)	-	0.0488	0.390	0.4
Cypermethrin (52315-07-8)	-	0.0488	0.390	1	Propoxur (114-26-1)	-	0.0488	0.390	0.2
Daminozide (1596-84-5)	-	0.0488	0.390	1	Pyrethrins (8003-34-7)	-	0.0488	0.390	1
DDVP (62-73-7)	-	0.0488	0.390	0.1	Pyridaben (96489-71-3)	-	0.0488	0.390	0.2
Diazinon (333-41-5)	-	0.0488	0.390	0.2	Spinosad (168316-95-8)	-	0.0488	0.390	0.2
Dimethoate (60-51-5)	-	0.0488	0.390	0.2	Spiromesifen (283594-90-1)	-	0.0488	0.390	0.2
Ethoprophos (13194-48-4)	-	0.0488	0.390	0.2	Spirotetramat (203313-25-1)	-	0.0488	0.390	0.2
Etofenprox (80844-07-1)	-	0.0488	0.390	0.4	Spiroxamine (118134-30-8)	-	0.0488	0.390	0.4
Etoxazole (153233-91-1)	-	0.0488	0.390	0.2	Tebuconazole (80443-41-0)	-	0.0488	0.390	0.4
Fenoxycarb (72490-01-8)	-	0.0488	0.390	0.2	Thiacloprid (111988-49-9)	-	0.0488	0.390	0.2
(E)-Fenpyroximate (134098-61-6)	-	0.0488	0.390	0.4	Thiamethoxam (153719-23-4)	-	0.0488	0.390	0.2
Fipronil (120068-37-3)	-	0.0488	0.390	0.4	Trifloxystrobin (141517-21-7)	-	0.0488	0.390	0.2
Flonicamid (158062-67-0)	-	0.0488	0.390	1					
Fludioxinil (131341-86-1)	-	0.0488	0.390	0.4					
Hexythiazox (78587-05-0)	-	0.0488	0.390	1					
Imazalil (35554-44-0)	-	0.0488	0.390	0.2					
Imidacloprid (138261-41-3)	-	0.0488	0.390	0.4					



#### Color Key

RESULT < AL

RESULT > AL

"DET" detected less than LOQ

"-" not detected above  
LOD

Permethrins measured as the  
cumulative residue of the *cis*- and  
*trans*- permethrin isomers.

Pyrethrins measured as the  
cumulative residue of the  
pyrethrin I, cinerin I, and jasmolin  
I isomers.

Action levels 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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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	Synonym(s)
Cyfluthrin	Baythroid	Myclobutanil	Systhane	Propiconazole	Tilt
DDVP	Dichlorvos	Naled	Dibrom	Propoxur	Baygon
Ethoprophos	Prophos	Phosmet	Imidan		

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

<b>Analysis Date/Time:</b> 06/20/2023 1832 (ICP/OES)	<b>Method:</b> ICP/MS	<b>Deviations from SOP:</b>
<b>Analysis Date/Time:</b> - (DMA)	<b>Instrument:</b> Agilent 7500ce	None
<b>Analyst:</b> KF		

<b>Heavy Metal</b>	<b>Result (µg/kg)</b>	<b>LOD (µg/kg)</b>	<b>LOQ (µg/kg)</b>	<b>Action Level (µg/kg)</b>
Arsenic (As)	-	58.6	92.8	200
Cadmium (Cd)	-	58.6	92.8	200
Lead (Pb)	-	58.6	92.8	500
Mercury (Hg)	-	58.6	92.8	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**

<b>RESULT &lt; AL</b>
<b>RESULT &gt; AL</b>

"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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**MICROBIOLOGICAL PROFILE (SOP: SOP-Micro-001)**

**Analysis Date/Time:** 06/21/2023 0953  
**Analyst:** PW  
**Method:** Hardy Diagnostics CompactDry  
**Instrument:** Thermo Incubator  
**Deviations from SOP:** None

<b>Bacteria/Microbe</b>	<b>Result (CFU/g)</b>	<b>Action Level (CFU/g)</b>
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

**Color Key**

**RESULT < AL**

**RESULT > AL**

**Reporting Limit (CFU/g)**

1

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