

License: ADH 113







**Date Received:** 01/30/2023

## **SUMMARY OF ANALYSIS (SAMPLE ID: SA34242)**

Order ID: OR10284 **Testing Location:** Customer ID: 2161 Sample Type: Primary Arkansas River Valley Relief Cultivation Lot Number: Matrix: Flower

232 S. Broadview St. 5601 Old Greenwood Rd Suite C M00065C13130502159 **Mass:** 23g Greenbrier, AR 72058 Fort Smith, AR 72903 **Production Run: Date Collected:** 01/30/2023 6020H20221201O431

Cultivar (Strain) or Sample Description: Orange 43 **Date Completed:** 02/05/2023

\*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

> PASS/FAIL **Moisture Content (%)** Water Activity (aw) 12.7 0.468 @ 23.8°C **PASS**

Moisture content/water activity action levels are referenced from the State of Arkansas MMJ testing guidelines.

License: 00065C

Moisture content levels less than 15% are recommended but the sample does not fail. Water activity levels must be less than 0.65aw.

<u>Cannabino</u>	ids (Top 3)	<u>(%)</u>	mg/g
ТН	CA	24.8	248
CB	GA	1.16	11.6
Δ9-7	ГНС	1.13	11.3
TOTA	L CBD	-	-
TOTA	LTHC	22.9	229
TOTAL CAN	NABINOIDS	27.5	275
<u>Terpene</u>	s (Top 5)	<u>(%)</u>	µg/g
Terpir	olene	0.600	6000
β-Му	rcene	0.371	3710
β-Caryo	β-Caryophyllene		1700
d-Lim	onene	0.148	1480
β-Pi	β-Pinene		763
TOTAL T	ERPENES	1.57	15700
Contaminants	PASS/FAIL	Sample Dictur	e Unon Receint

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







Scan the QR code to verify results.

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Thank you!









Cultivar (Strain) or Sample Description: Orange 43







## **CERTIFICATE OF ANALYSIS (SAMPLE ID: SA34242)**

Testing Location:

Arkansas 232 S. Broadview St. Greenbrier, AR 72058 License: ADH 113 Customer ID: 2161 River Valley Relief Cultivation 5601 Old Greenwood Rd Suite C Fort Smith, AR 72903 License: 00065C Order ID: OR10284
Lot Number:
M00065C13130502159
Production Run:
6020H20221201O431

Matrix: Flower Mass: 23g Date Collected: 01/30/2023 Date Received: 01/30/2023

Sample Type: Primary

**Date Completed:** 02/05/2023

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

Analysis Date/Time: 2/3/2023 1115 Method: HPLC/DAD Moisture Content (%): 12.7

Analyst: PW Instrument: Agilent 1100 Water Activity (aw): 0.468 @ 23.79°C

<u>Cannabinoid</u>	Result (%)	<u>UM</u> (+/-%)	Result (mg/g)	LOQ (mg/g)	Result (mg/ mL)	Per Serving (mg)	Per Unit (mg)
CBC	-	-	-	0.526	-	-	-
CBCA	-	-	-	1.63	-	-	-
CBD	-	-	-	3.71	-	-	-
CBDA	-	-	-	1.37	-	-	-
CBDV	-	-	-	0.595	-	-	-
CBDVA	-	-	-	1.59	-	-	-
CBG	DET	-	DET	2.41	-	-	-
CBGA	1.16	0.104	11.6	1.73	-	11.6	11.6
CBL	-	-	-	2.78	-	-	-
CBN	-	-	-	1.28	-	-	-
CBNA	-	-	-	1.38	-	-	-
Δ9-ΤΗС	1.13	0.102	11.3	1.53	-	11.3	11.3
Δ8-ΤΗС	-	-	-	2.39	-	-	-
THCA	24.8	2.23	248	0.832	-	248	248
THCV	-	-	-	1.99	-	-	-
THCVA	0.393	0.0118	3.93	0.634	-	3.93	3.93
TOTAL	27.5	2.45	275		_	275	275
TOTAL CBC	-	-	-		_	-	-
TOTAL CBD	-	-	-		-	-	-
TOTAL CBDV	-	-	-		-	-	-
TOTAL CBG	1.02	0.0914	10.2		-	10.2	10.2
TOTAL CBN	-	-	-		-	-	-
TOTAL THC	22.9	2.06	229		-	229	229
TOTAL THCV	0.341	0.0102	3.41		-	3.41	3.41

<sup>\*</sup> 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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SERVING MASS (g): 1.00 SERVINGS/UNIT: 1

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.





<sup>&</sup>quot;-" Not detected above LOD.



Cultivar (Strain) or Sample Description: Orange 43







## **CERTIFICATE OF ANALYSIS (SAMPLE ID: SA34242)**

**Testing Location:** 

Arkansas 232 S. Broadview St. Greenbrier, AR 72058

License: ADH 113

**Terpene** 

α-Bisabolol

Camphene δ-3-Carene β-Caryophyllene

Caryophyllene oxide p-Cymene Eucalyptol Geraniol Guaiol

α-Humulene

Isopulegol

Linalool

β-Myrcene

cis-Nerolidol

α-Ocimene

**β-Ocimene** 

α-Pinene

**B-Pinene** 

α-Terpinene y-Terpinene Terpinolene

trans-Nerolidol

d-Limonene

Customer ID: 2161

River Valley Relief Cultivation 5601 Old Greenwood Rd Suite C

Result

**(%)** 

0.0348

0.170

0.0339

0.148

0.0525

0.371

0.0664

0.0197

0.0763

0.600

Fort Smith, AR 72903

License: 00065C

Order ID: OR10284 Lot Number:

M00065C13130502159

**Production Run:** 6020H20221201O431 Sample Type: Primary

Matrix: Flower **Mass:** 23g

**Date Collected:** 01/30/2023 **Date Received:** 01/30/2023

**Date Completed:** 02/05/2023

#### TERPENOID PROFILE

Analysis Date/Time:02/04/2023 0901 Method: GC/MS

Result

 $(\mu g/g)$ 

348

1700

339

1480

525

3710

664

197

763

6000

**Analyst: KF** Instrument: Agilent 7890/5975 **Deviations from SOP:** 

None



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

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"-" Not detected above RL

**TOTAL** 15700 1.57 Reporting Limit (µg/g): 46.4





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02/05/2023









## **CERTIFICATE OF ANALYSIS (SAMPLE ID: SA34242)**

**Testing Location:** 

Arkansas 232 S. Broadview St. Greenbrier, AR 72058

License: ADH 113

Customer ID: 2161

River Valley Relief Cultivation 5601 Old Greenwood Rd Suite C Fort Smith, AR 72903

License: 00065C

Order ID: OR10284

**Lot Number:** M00065C13130502159

**Production Run:** 6020H20221201O431

**Sample Type:** Primary

**Matrix:** Flower **Mass:** 23g

**Date Collected:** 01/30/2023 **Date Received:** 01/30/2023

**Date Completed:** 02/05/2023

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

**Analysis Date/Time:** 02/04/2023 0815

Cultivar (Strain) or Sample Description: Orange 43

**Analyst:** KF

Method: LC/MS/MS

Instrument: Shimadzu LC-8050

**Deviations from SOP:** 

None

7 maryst. 1x1					instrument. Similadza EG-0050				110	
Pesticide	<u>Result</u> (μg/g)	<u>LOD</u> (µg/g)	LOQ (µg/g)	<u>Action</u> <u>Level</u> (μg/g)	<u>Pesticide</u>	Result (μg/g)	<u>LOD</u> (µg/g)	<u>LOQ</u> (µg/g)	Action Level (µg/g)	
Abamectin (71751-41-2)	-	0.0464	0.371	0.5	Kresoxim-methyl	_	0.0464	0.371	0.4	
Acephate (30560-19-1)	-	0.0464	0.371	0.4	(143390-89-0)					
Acequinocyl (57960-19-7)	-	0.0464	0.371	2	Malathion (121-75-5)	-	0.0464	0.371	0.2	
Acetamiprid (135410-20-7)	-	0.0464	0.371	0.2	Metalaxyl (57837-19-1) Methiocarb (2032-65-7)	-	0.0464 0.0464	0.371 0.371	0.2 0.2	
Aldicarb (116-06-3)	-	0.0464	0.371	0.4	Methomyl (16752-77-5)	_	0.0464	0.371	0.4	
Azoxystrobin (131860-33-8)	-	0.0464	0.371	0.2	Methyl parathion (298-0-0)	-	0.0464	0.371	0.2	
Bifenazate (149877-41-8)	-	0.0464	0.371	0.2	MGK 264 (113-48-4)	-	0.0464	0.371	0.2	
Bifenthrin (82657-04-3)	-	0.0464	0.371	0.2	Myclobutanil		0.0464	0.371	0.2	
Boscalid (188425-85-6)	-	0.0464	0.371	0.4	(88671-89-0)		0.0404	0.571		
Carbaryl (63-25-2)	-	0.0464	0.371	0.2	Naled (300-76-5)	-	0.0464	0.371	0.5	
Carbofuran (1563-66-2)	-	0.0464	0.371	0.2	Oxamyl (23135-22-0)	-	0.0464	0.371	1	
Chlorantraniliprole (800008-45-7)	-	0.0464	0.371	0.2	Paclobutrazol (76738-62-0)	-	0.0464	0.371	0.4	
Chlorfenapyr (122453-73-0)	-	0.0464	0.371	1	Permethrins (52645-53-1) Phosmet (732-11-6)	-	0.0464 0.0464	0.371 0.371	0.2 0.2	
Chlorpyrifos (2921-88-2)	-	0.0464	0.371	0.2	Piperonyl butoxide		0.0464	0.371	2	
Clofentezine (74115-24-5)	_	0.0464	0.371	0.2	(51-03-6)	_	0.0404	0.3/1	2	
Cyfluthrin (68359-37-5)	-	0.0464	0.371	1	Prallethrins (2331-36-9)	-	0.0464	0.371	0.2	
Cypermethrin (52315-07-8)	-	0.0464	0.371	1	Propiconazole (60207-90-1))	-	0.0464	0.371	0.4	
Daminozide (1596-84-5)	-	0.0464	0.371	1	Propoxur (114-26-1)	-	0.0464	0.371	0.2	
DDVP (62-73-7)	_	0.0464	0.371	0.1	Pyrethrins (8003-34-7)	-	0.0464	0.371	1	
Diazinon (333-41-5)	-	0.0464	0.371	0.2	Pyridaben (96489-71-3)	-	0.0464	0.371	0.2	
Dimethoate (60-51-5)	-	0.0464	0.371	0.2	Spinosad (168316-95-8)	-	0.0464	0.371	0.2	
Ethoprophos (13194-48-4)	-	0.0464	0.371	0.2	Spiromesifen (283594-90-1)	-	0.0464	0.371	0.2	
Etofenprox (80844-07-1)	-	0.0464	0.371	0.4	Spirotetramat					
Etoxazole (153233-91-1)	-	0.0464	0.371	0.2	(203313-25-1)	-	0.0464	0.371	0.2	
Fenoxycarb (72490-01-8)	-	0.0464	0.371	0.2	Spiroxamine	_	0.0464	0.371	0.4	
(E)-Fenpyroximate (134098-61-6)	-	0.0464	0.371	0.4	(118134-30-8) Tebuconazole	_	0.0464	0.371	0.4	
Fipronil (120068-37-3)	-	0.0464	0.371	0.4	(80443-41-0)		0.0404	0.571	0.4	
Flonicamid (158062-67-0)	-	0.0464	0.371	1	Thiacloprid (111988-49-9)	_	0.0464	0.371	0.2	
Fludioxinil (131341-86-1)	-	0.0464	0.371	0.4	Thiamethoxam					
Hexythiazox (78587-05-0)	-	0.0464	0.371	1	(153719-23-4)	-	0.0464	0.371	0.2	
Imazalil (35554-44-0)	-	0.0464	0.371	0.2	Trifloxystrobin		0.0464	0.371	0.2	
Imidacloprid (138261-41-3)	-	0.0464	0.371	0.4	(141517-21-7)		0.0404	0.5/1	0.2	



Color Key

# 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

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













## **CERTIFICATE OF ANALYSIS (SAMPLE ID: SA34242)**

Testing Location:Customer ID: 2161Order ID: OR10284ArkansasRiver Valley Relief CultivationLot Number:

232 S. Broadview St. 5601 Old Greenwood Rd Suite C

Greenbrier, AR 72058 Fort Smith, AR 72903 Pr License: ADH 113 License: 00065C 60

Order ID: OR10284 Sample Type: Primary
Lot Number: Matrix: Flower

 Production Run:
 Date Collected: 01/30/2023

 6020H20221201O431
 Date Received: 01/30/2023

Cultivar (Strain) or Sample Description: Orange 43Date Completed: 02/05/2023

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

Analysis Date/Time: 02/04/2023 0853 (ICP/OES) Method: ICP/OES Deviations from SOP:

Analysis Date/Time: - (DMA) Instrument: Agilent 720-ES None

Analyst: KF

Heavy Metal	<u>Result</u> (μg/kg)	<u>LOD</u> (μg/kg)	LOQ (µg/kg)	<u>Action Level</u> (μg/kg)
Arsenic (As)	-	58.9	93.3	200
Cadmium (Cd)	-	58.9	93.3	200
Lead (Pb)	-	58.9	93.3	500
Mercury (Hg)	-	58.9	93.3	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

RESULT < AL
RESULT > AL

"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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## **CERTIFICATE OF ANALYSIS (SAMPLE ID: SA34242)**

Testing Location:Customer ID: 2161Sample ID: SA34242Sample Type: PrimaryArkansasRiver Valley Relief CultivationLot Number:Matrix: Flower

 232 S. Broadview St.
 5601 Old Greenwood Rd Suite C
 M00065C13130502159
 Mass: 23g

 Greenbrier, AR 72058
 Fort Smith, AR 72903
 Production Run:
 Date Collected: 01/30/2023

 License: ADA 05\_H273
 License: 00065C
 6020H202212010431
 Date Received: 01/30/2023

Cultivar (Strain) or Sample Description: Orange 43

Date Completed: 02/05/2023

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

**Analysis Date/Time:** 20230203 1046 **Method:** Hardy Diagnostics CompactDry **Deviations from SOP:** 

Analyst: PW Instrument: Thermo Incubator None

Bacteria/Microbe	<u>Result</u> (CFU/g)	Action Level (CFU/g)
Aerobic Plate Count	NT	-
Coliforms, Total	Absent	1
Escherichia Coli (E. Coli)	Absent	100
Mold/Yeast	NT	-
Pseudomonas aeruginosa	NT	1
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)

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