

License: ADH 113





6020H20221201O433



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

# **SUMMARY OF ANALYSIS (SAMPLE ID: SA34244)**

Testing Location:Customer ID: 2161Order ID: OR10284Sample Type: PrimaryArkansasRiver Valley Relief CultivationLot Number:Matrix: Flower

232 S. Broadview St. 5601 Old Greenwood Rd Suite C M00065C13135829043 Mass: 10g
Greenbrier, AR 72058 Fort Smith, AR 72903 Production Run: Date Collected: 01/30/2023

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.

 Moisture Content (%)
 Water Activity (aw)
 PASS/FAIL

 11.7
 0.472 @ 23.6°C
 PASS

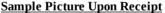
Moisture content/water activity action levels are referenced from the State of Arkansas MMJ testing guidelines.

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>	oids (Top 3)	<u>(%)</u>	mg/g
TH	CA	24.7	247
Δ9-7	ГНС	1.15	11.5
CB	GA	1.06	10.6
TOTA	L CBD	-	-
TOTA	LTHC	22.8	228
TOTAL CAN	NABINOIDS	27.4	274
<u>Terpenes (Top 5)</u>		<u>(%)</u>	ру/д
Terpin	nolene	0.552	5520
β-Му	rcene	0.339	3390
β-Caryo	phyllene	0.153	1530
α-Bis	abolol	0.148	1480
d-Lim	onene	0.127	1270
TOTAL T	ERPENES	1.54	15400
Contaminants	DASS/EAH	Comple Distru	o Upon Doccint

<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: SA34244)**

**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:

M00065C13135829043

**Production Run:** 6020H20221201O433 Sample Type: Primary

Matrix: Flower **Mass:** 10g

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

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

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

Method: HPLC/DAD **Analysis Date/Time:** 2/3/2023 1159 Moisture Content (%): 11.7

Analyst: PW **Instrument:** Agilent 1100

Water Activity (aw): 0.472 @ 23.55°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 =  $(CBCA \times 0.877) + CBC$ Total CBD =  $(CBDA \times 0.877) + CBD$ Total CBDV =  $(CBDVA \times 0.867) + CBDV$ Total CBG =  $(CBGA \times 0.878) + CBG$ Total CBN =  $(CBNA \times 0.876) + CBN$ 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.

<u>Cannabinoid</u>	Result (%)	<u>UM</u> (+/-%)	Result (mg/g)	LOQ (mg/g)	Result (mg/ mL)	Per Serving (mg)	<u>Per</u> g <u>Unit</u> (mg)
CBC	-	-	-	0.527	-	-	-
CBCA	-	-	-	1.64	-	-	-
CBD	-	-	-	3.72	-	-	-
CBDA	-	-	-	1.37	-	-	-
CBDV	-	-	-	0.596	-	-	-
CBDVA	-	-	-	1.59	-	-	-
CBG	-	-	-	2.41	-	-	-
CBGA	1.06	0.0957	10.6	1.73	-	10.6	10.6
CBL	-	-	-	2.79	-	-	-
CBN	-	-	-	1.28	-	-	-
CBNA	-	-	-	1.38	-	-	-
Δ9-ΤΗС	1.15	0.104	11.5	1.53	-	11.5	11.5
Δ8-ΤΗС	-	-	-	2.39	-	-	-
THCA	24.7	2.23	247	0.833	-	247	247
THCV	-	-	-	1.99	-	-	-
THCVA	0.435	0.0130	4.35	0.636	-	4.35	4.35
TOTAL	27.4	2.44	274		_	274	274
TOTAL CBC	-	-	-		-	-	-
TOTAL CBD	-	-	-		-	-	-
TOTAL CBDV	-	-	-		-	-	-
TOTAL CBG	0.934	0.0840	9.34		-	9.34	9.34
TOTAL CBN	-	-	-		-	-	-
TOTAL THC	22.8	2.06	228		-	228	228
TOTAL THCV	0.377	0.0113	3.77		-	3.77	3.77
* CBCA, CBDVA, C	BL, CBNA,	and THCVA	are in proce	ss of being added to	our accredi	itation sco	pe.

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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# **CERTIFICATE OF ANALYSIS (SAMPLE ID: SA34244)**

**Testing Location:** Arkansas

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: M00065C13135829043 Production Run: 6020H20221201O433

Sample Type: Primary
Matrix: Flower
Mass: 10g
Date Collected: 01/30/2023

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

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

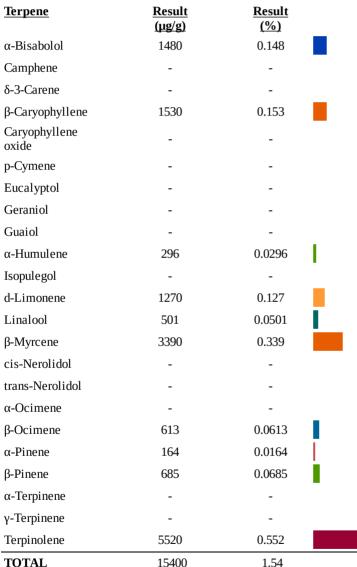
#### TERPENOID PROFILE

Analysis Date/Time:02/04/2023 1003 Method: GC/MS

Analyst: KF Instrument

Cultivar (Strain) or Sample Description: Orange 43

Method: GC/MS	<b>Deviations from SOP:</b>
Instrument: Agilent 7890/5975	None





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

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"-" Not detected above RL

DTAL 15400 1.54 Reporting Limit (µg/g): 44.7





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02/05/2023









# **CERTIFICATE OF ANALYSIS (SAMPLE ID: SA34244)**

**Testing Location:** Arkansas

232 S. Broadview St. Greenbrier, AR 72058

License: ADH 113 Cultivar (Strain) or Sample Description: Orange 43

**Analyst: KF** 

Customer ID: 2161

River Valley Relief Cultivation 5601 Old Greenwood Rd Suite C

Fort Smith, AR 72903

License: 00065C

Order ID: OR10284

Lot Number: M00065C13135829043

**Production Run:** 

6020H20221201O433

Sample Type: Primary

Matrix: Flower

**Mass:** 10g

**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 0901

Method: LC/MS/MS

Instrument: Shimadzu LC-8050

**Deviations from SOP:** 

None

<u>Pesticide</u>	Result	LOD	LOQ	<u>Action</u> Level	<u>Pesticide</u>	Result	LOD	LOQ	Action Level
	(µg/g)	(µg/g)	(µg/g)	(µg/g)		(µg/g)	(µg/g)	(µg/g)	(µg/g)
Abamectin (71751-41-2)	-	0.0447	0.358	0.5	Kresoxim-methyl	_	0.0447	0.358	0.4
Acephate (30560-19-1)	-	0.0447	0.358	0.4	(143390-89-0)				
Acequinocyl (57960-19-7)	-	0.0447	0.358	2	Malathion (121-75-5)	-	0.0447	0.358	0.2
Acetamiprid	_	0.0447	0.358	0.2	Metalaxyl (57837-19-1)	-	0.0447	0.358	0.2
(135410-20-7) Aldicarb (116-06-3)		0.0447	0.358	0.4	Methiocarb (2032-65-7) Methomyl (16752-77-5)	-	0.0447 0.0447	0.358 0.358	0.2 0.4
` ′	_	0.0447	0.336	0.4	, ,	-	0.0447	0.330	0.4
Azoxystrobin (131860-33-8)	-	0.0447	0.358	0.2	Methyl parathion (298-0-0)	-	0.0447	0.358	0.2
Bifenazate (149877-41-8)	-	0.0447	0.358	0.2	MGK 264 (113-48-4)	-	0.0447	0.358	0.2
Bifenthrin (82657-04-3)	-	0.0447	0.358	0.2	Myclobutanil	_	0.0447	0.358	0.2
Boscalid (188425-85-6)	-	0.0447	0.358	0.4	(88671-89-0)				
Carbaryl (63-25-2)	-	0.0447	0.358	0.2	Naled (300-76-5)	-	0.0447	0.358	0.5
Carbofuran (1563-66-2)	-	0.0447	0.358	0.2	Oxamyl (23135-22-0)	-	0.0447	0.358	1
Chlorantraniliprole (800008-45-7)	-	0.0447	0.358	0.2	Paclobutrazol (76738-62-0)	-	0.0447	0.358	0.4
Chlorfenapyr					Permethrins (52645-53-1)	-	0.0447	0.358	0.2
(122453-73-0)	-	0.0447	0.358	1	Phosmet (732-11-6)	-	0.0447	0.358	0.2
Chlorpyrifos (2921-88-2)	-	0.0447	0.358	0.2	Piperonyl butoxide	_	0.0447	0.358	2
Clofentezine (74115-24-5)	-	0.0447	0.358	0.2	(51-03-6)				
Cyfluthrin (68359-37-5)	-	0.0447	0.358	1	Prallethrins (2331-36-9)	-	0.0447	0.358	0.2
Cypermethrin (52315-07-8)	-	0.0447	0.358	1	Propiconazole (60207-90-1))	-	0.0447	0.358	0.4
Daminozide (1596-84-5)	_	0.0447	0.358	1	Propoxur (114-26-1)	-	0.0447	0.358	0.2
DDVP (62-73-7)	_	0.0447	0.358	0.1	Pyrethrins (8003-34-7)	-	0.0447	0.358	1
Diazinon (333-41-5)	_	0.0447	0.358	0.2	Pyridaben (96489-71-3)	-	0.0447	0.358	0.2
Dimethoate (60-51-5)	_	0.0447	0.358	0.2	Spinosad (168316-95-8)	-	0.0447	0.358	0.2
Ethoprophos (13194-48-4)	-	0.0447	0.358	0.2	Spiromesifen (283594-90-1)	_	0.0447	0.358	0.2
Etofenprox (80844-07-1)	-	0.0447	0.358	0.4	(263594-90-1) Spirotetramat				
Etoxazole (153233-91-1)	-	0.0447	0.358	0.2	(203313-25-1)	-	0.0447	0.358	0.2
Fenoxycarb (72490-01-8)	-	0.0447	0.358	0.2	Spiroxamine		0.0447	0.250	0.4
(E)-Fenpyroximate (134098-61-6)	-	0.0447	0.358	0.4	(118134-30-8) Tebuconazole	-	0.0447	0.358	0.4
Fipronil (120068-37-3)	-	0.0447	0.358	0.4	(80443-41-0)	-	0.0447	0.358	0.4
Flonicamid (158062-67-0)	- [	0.0447	0.358	1	Thiacloprid		0.0447	0.358	0.2
Fludioxinil (131341-86-1)	-	0.0447	0.358	0.4	(111988-49-9)		0.044/	0.550	0.2
Hexythiazox (78587-05-0)	- 1	0.0447	0.358	1	Thiamethoxam (153719-23-4)		0.0447	0.358	0.2
					(133/19-23-4)				



Color Key

"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

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

0.0447

0.358

0.2

<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		

Trifloxystrobin

(141517-21-7)



Imazalil (35554-44-0)

Imidacloprid

(138261-41-3)

0.0447

0.0447

0.358

0.358

0.2

0.4









M00065C13135829043



# **CERTIFICATE OF ANALYSIS (SAMPLE ID: SA34244)**

Testing Location:Customer ID: 2161Order ID: OR10284Sample Type: PrimaryArkansasRiver Valley Relief CultivationLot Number:Matrix: Flower

Greenbrier, AR 72058 Fort Smith, AR 72903 **Production Run: Date Collected:** 01/30/2023 License: ADH 113 License: 00065C 6020H20221201O433 **Date Received:** 01/30/2023 **Cultivar (Strain) or Sample Description:** Orange 43 **Date Completed:** 02/05/2023

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

5601 Old Greenwood Rd Suite C

Analysis Date/Time: 02/04/2023 0906 (ICP/OES) Method: ICP/OES Deviations from SOP:

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

Analyst: KF

232 S. Broadview St.

Heavy Metal	<u>Result</u> (μg/kg)	<u>LOD</u> (μg/kg)	LOQ (µg/kg)	<u>Action Level</u> (μg/kg)
Arsenic (As)	-	59.3	93.8	200
Cadmium (Cd)	-	59.3	93.8	200
Lead (Pb)	-	59.3	93.8	500
Mercury (Hg)	-	59.3	93.8	100



**Mass:** 10g

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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Testing Location:Customer ID: 2161Sample ID: SA34244Sample Type: PrimaryArkansasRiver Valley Relief CultivationLot Number:Matrix: Flower

 232 S. Broadview St.
 5601 Old Greenwood Rd Suite C
 M00065C13135829043
 Mass: 10g

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

 License: ADA 05 H273
 License: 00065C
 6020H202212010433
 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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