

License: ADH 113





4018H20220902O43



Date Received: 01/18/2023

SUMMARY OF ANALYSIS (SAMPLE ID: SA34182)

Testing Location:Customer ID: 2161Order ID: OR10269Sample Type: PrimaryArkansasRiver Valley Relief CultivationLot Number:Matrix: Flower

232 S. Broadview St. 5601 Old Greenwood Rd Suite C M00065C13132004461 Mass: 8g
Greenbrier, AR 72058 Fort Smith, AR 72903 Production Run: Date Collected: 01/18/2023

Cultivar (Strain) or Sample Description: Orange 43

Date Completed: 01/23/2023

*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

 10.6
 0.461 @ 24.1°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>	<u>mg</u> /g
TH	CA	24.4	244
Δ9-7	THC	1.29	12.9
CB	GA	0.873	8.73
TOTA	L CBD	-	-
TOTA	LTHC	22.7	227
TOTAL CAN	NABINOIDS	26.9	269
<u>Terpene</u>	Terpenes (Top 5)		µg/g
Caryophyl	lene oxide	0.240	2400
Terpir	olene	0.226	2260
β-Му	β-Myrcene		1580
d-Lim	onene	0.0664	664
Lina	lool	0.0375	375
TOTAL T	ERPENES	0.858	8580
Contaminants	PASS/FAIL	Sample Dictur	e Unon Receint

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 43







CERTIFICATE OF ANALYSIS (SAMPLE ID: SA34182)

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: OR10269
Lot Number:
M00065C13132004461
Production Run:

4018H20220902O43

Mass: 8g Date Collected: 01/18/2023 Date Received: 01/18/2023

Sample Type: Primary

Matrix: Flower

Date Completed: 01/23/2023

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

Analysis Date/Time: 1/20/2023 1832 Method: HPLC/DAD Moisture Content (%): 10.6

Analyst: PW Instrument: Agilent 1100

Instrument: Agilent 1100 Water Activity (aw): 0.461 @ 24.13°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 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) + 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.

<u>Cannabinoid</u>	Result (%)	<u>UM</u> (+/-%)	Result (mg/g)	LOQ (mg/g)	Result (mg/ mL)	Per Serving (mg)	Per Unit (mg)
CBC	-	-	-	1.03	-	-	-
CBCA	-	-	-	3.21	-	-	-
CBD	-	-	-	7.30	-	-	-
CBDA	-	-	-	2.69	-	-	-
CBDV	-	-	-	1.17	-	-	-
CBDVA	-	-	-	3.12	-	-	-
CBG	-	-	-	4.74	-	-	-
CBGA	0.873	0.0785	8.73	3.39	-	8.73	8.73
CBL	-	-	-	5.47	-	-	-
CBN	-	-	-	2.52	-	-	-
CBNA	-	-	-	2.71	-	-	-
Δ9-ΤΗС	1.29	0.116	12.9	3.01	-	12.9	12.9
Δ8-ΤΗС	-	-	-	4.70	-	-	-
THCA	24.4	2.20	244	1.64	-	244	244
THCV	-	-	-	3.92	-	-	-
THCVA	0.348	0.0105	3.48	1.25	_	3.48	3.48
TOTAL	26.9	2.40	269		-	269	269
TOTAL CBC	-	-	-		-	-	-
TOTAL CBD	-	-	-		-	-	-
TOTAL CBDV	-	-	-		-	-	-
TOTAL CBG	0.766	0.0690	7.66		-	7.66	7.66
TOTAL CBN	-	-	-		-	-	-
TOTAL THC	22.7	2.04	227		-	227	227
TOTAL THCV	0.302	0.00906	3.02		-	3.02	3.02
* CBCA CBDVA C	BI CRNA	and THCVA	aro in prococ	s of boing added to	our accredi	itation coor	20

^{*} 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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Cultivar (Strain) or Sample Description: Orange 43







CERTIFICATE OF ANALYSIS (SAMPLE ID: SA34182)

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

> Result **(%)**

0.0341

0.0287

0.240

0.0664

0.0375

0.158

0.0326

0.0345

0.226

Order ID: OR10269 Lot Number: M00065C13132004461 **Production Run:** 4018H20220902O43

Sample Type: Primary Matrix: Flower Mass: 8g

Date Collected: 01/18/2023 **Date Received:** 01/18/2023

Date Completed: 01/23/2023

TERPENOID PROFILE

Analysis Date/Time:01/20/2023 2315

Result

 $(\mu g/g)$

341

287

2400

664

375

1580

326

345

2260

Analyst: KF

Terpene

α-Bisabolol

Camphene δ-3-Carene β-Caryophyllene

Caryophyllene

α-Humulene

Isopulegol

Linalool

β-Myrcene

cis-Nerolidol

α-Ocimene

β-Ocimene

α-Pinene

B-Pinene

TOTAL

α-Terpinene y-Terpinene Terpinolene

trans-Nerolidol

d-Limonene

oxide p-Cymene Eucalyptol Geraniol Guaiol

Method: GC/MS

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

8580 0.858 Reporting Limit (µg/g): 43.3





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Cultivar (Strain) or Sample Description: Orange 43







CERTIFICATE OF ANALYSIS (SAMPLE ID: SA34182)

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: OR10269

Lot Number:

M00065C13132004461

Production Run: 4018H20220902O43 Sample Type: Primary

Matrix: Flower

Mass: 8g

Date Collected: 01/18/2023 **Date Received:** 01/18/2023

Date Completed: 01/23/2023

PESTICIDES PROFILE (SOP: SOP-PEST-001)

Analysis Date/Time: 01/20/2023 2031 Method: LC/MS/MS

Analyst: KF

Instrument: Shimadzu LC-8050

Deviations from SOP:

None

<u>Pesticide</u>	Result (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)	LOQ (µg/g)	<u>Action</u> <u>Level</u> (μg/g)
Abamectin (71751-41-2)	-	0.0433	0.346	0.5	Kresoxim-methyl	_	0.0433	0.346	0.4
Acephate (30560-19-1)	-	0.0433	0.346	0.4	(143390-89-0)				
Acequinocyl (57960-19-7)	-	0.0433	0.346	2	Malathion (121-75-5)	-	0.0433	0.346	0.2
Acetamiprid (135410-20-7)	-	0.0433	0.346	0.2	Metalaxyl (57837-19-1) Methiocarb (2032-65-7)	-	0.0433 0.0433	0.346 0.346	0.2 0.2
Aldicarb (116-06-3)	-	0.0433	0.346	0.4	Methomyl (16752-77-5)	-	0.0433	0.346	0.4
Azoxystrobin (131860-33-8)	-	0.0433	0.346	0.2	Methyl parathion (298-0-0)	-	0.0433	0.346	0.2
Bifenazate (149877-41-8)	-	0.0433	0.346	0.2	MGK 264 (113-48-4)	-	0.0433	0.346	0.2
Bifenthrin (82657-04-3)	-	0.0433	0.346	0.2	Myclobutanil		0.0433	0.346	0.2
Boscalid (188425-85-6)	-	0.0433	0.346	0.4	(88671-89-0)	_	0.0433	0.340	0.2
Carbaryl (63-25-2)	-	0.0433	0.346	0.2	Naled (300-76-5)	-	0.0433	0.346	0.5
Carbofuran (1563-66-2)	_	0.0433	0.346	0.2	Oxamyl (23135-22-0)	-	0.0433	0.346	1
Chlorantraniliprole (800008-45-7)	-	0.0433	0.346	0.2	Paclobutrazol (76738-62-0)	-	0.0433	0.346	0.4
Chlorfenapyr					Permethrins (52645-53-1)	-	0.0433	0.346	0.2
(122453-73-0)	-	0.0433	0.346	1	Phosmet (732-11-6)	-	0.0433	0.346	0.2
Chlorpyrifos (2921-88-2)	-	0.0433	0.346	0.2	Piperonyl butoxide	_	0.0433	0.346	2
Clofentezine (74115-24-5)	-	0.0433	0.346	0.2	(51-03-6)				
Cyfluthrin (68359-37-5)	-	0.0433	0.346	1	Prallethrins (2331-36-9)	-	0.0433	0.346	0.2
Cypermethrin (52315-07-8)	-	0.0433	0.346	1	Propiconazole (60207-90-1))	-	0.0433	0.346	0.4
Daminozide (1596-84-5)	-	0.0433	0.346	1	Propoxur (114-26-1)	-	0.0433	0.346	0.2
DDVP (62-73-7)	-	0.0433	0.346	0.1	Pyrethrins (8003-34-7)	-	0.0433	0.346	1
Diazinon (333-41-5)	-	0.0433	0.346	0.2	Pyridaben (96489-71-3)	-	0.0433	0.346	0.2
Dimethoate (60-51-5)	-	0.0433	0.346	0.2	Spinosad (168316-95-8)	-	0.0433	0.346	0.2
Ethoprophos (13194-48-4)	-	0.0433	0.346	0.2	Spiromesifen (283594-90-1)	_	0.0433	0.346	0.2
Etofenprox (80844-07-1)	-	0.0433	0.346	0.4	Spirotetramat				
Etoxazole (153233-91-1)	-	0.0433	0.346	0.2	(203313-25-1)	-	0.0433	0.346	0.2
Fenoxycarb (72490-01-8)	-	0.0433	0.346	0.2	Spiroxamine		0.0433	0.346	0.4
(E)-Fenpyroximate (134098-61-6)	-	0.0433	0.346	0.4	(118134-30-8) Tebuconazole	-			
Fipronil (120068-37-3)	-	0.0433	0.346	0.4	(80443-41-0)	-	0.0433	0.346	0.4
Flonicamid (158062-67-0)	-	0.0433	0.346	1	Thiacloprid	_	0.0433	0.346	0.2
Fludioxinil (131341-86-1)	-	0.0433	0.346	0.4	(111988-49-9)		0.0455	0.540	0.2
Hexythiazox (78587-05-0)	_	0.0433	0.346	1	Thiamethoxam	_	0.0433	0.346	0.2
Imazalil (35554-44-0)		0.0433	0.346	0.2	(153719-23-4) Trifloxystrobin				
Imidacloprid (138261-41-3)	-	0.0433	0.346	0.4	(141517-21-7)	-	0.0433	0.346	0.2



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

<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: SA34182)

Testing Location:Customer ID: 2161Order ID: OR10269Sample Type: PrimaryArkansasRiver Valley Relief CultivationLot Number:Matrix: Flower

232 S. Broadview St. 5601 Old Greenwood Rd Suite C M00065C13132004461 Mass: 8g
Greenbrier, AR 72058 Fort Smith, AR 72903 Production Run: Date Collected: 01/18/2023
License: ADH 113 License: 00065C 4018H20220902O43 Date Received: 01/18/2023
Cultivar (Strain) or Sample Description: Orange 43 Date Completed: 01/23/2023

Cultivar (Strain) or Sample Description: Orange 43

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

Analysis Date/Time: 01/20/2023 1506 (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)	<u>LOQ</u> (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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4018H20220902O43



Date Received: 01/18/2023

CERTIFICATE OF ANALYSIS (SAMPLE ID: SA34182)

Testing Location:Customer ID: 2161Sample ID: SA34182Sample Type: PrimaryArkansasRiver Valley Relief CultivationLot Number:Matrix: Flower

232 S. Broadview St. 5601 Old Greenwood Rd Suite C M00065C13132004461 Mass: 8g
Greenbrier, AR 72058 Fort Smith, AR 72903 Production Run: Date Collected: 01/18/2023

Cultivar (Strain) or Sample Description: Orange 43

Date Completed: 01/23/2023

MICROBIOLOGICAL PROFILE (SOP: SOP-Micro-001)

Analysis Date/Time: 20230120 1138 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	Present	1
Escherichia Coli (E. Coli)	Absent	100
Mold/Yeast	NT	-
Pseudomonas aeruginosa	NT	1
Salmonella spp.	NT	-
Staphylococcus aureus	NT	-

License: 00065C



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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