

License: ADH 113





6020H20221201O432



Date Received: 01/30/2023

SUMMARY OF ANALYSIS (SAMPLE ID: SA34243)

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 M00065C13138323980 Mass: 23g
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/FAIL12.80.506 @ 23.6°CPASS

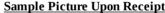
Moisture content/water activity action levels are referenced from the State of Arkansas MMJ testing guidelines.

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	25.0	250
Δ9-	ГНС	1.10	11.0
CB	GA	1.04	10.4
TOTA	L CBD	-	-
TOTA	LTHC	23.0	230
TOTAL CAN	NABINOIDS	27.5	275
<u>Terpene</u>	s (Top 5)	<u>(%)</u>	µg/g
Terpii	nolene	0.523	5230
β-Му	rcene	0.299	2990
β-Caryo	phyllene	0.169	1690
d-Lim	onene	0.119	1190
β-Pi	nene	0.0650	650
TOTAL T	ERPENES	1.37	13700
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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Thank you!





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02/05/2023



Cultivar (Strain) or Sample Description: Orange 43







CERTIFICATE OF ANALYSIS (SAMPLE ID: SA34243)

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:

M00065C13138323980 **Production Run:** 6020H20221201O432 **Sample Type:** Primary **Matrix:** Flower

Mass: 23g

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

Date Completed: 02/05/2023

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

Analysis Date/Time: 2/3/2023 1145 Method: HPLC/DAD Moisture Content (%): 12.8

Analyst: PW Instrument: Agilent 1100 Water Activity (aw): 0.5056 @ 23.64°C

<u>Cannabinoid</u>	Result (%)	<u>UM</u> (+/-%)	Result (mg/g)	LOQ (mg/g)	Result (mg/ mL)	Per Serving (mg)	Per Unit (mg)
CBC	-	-	-	0.521	-	-	-
CBCA	-	-	-	1.62	-	-	-
CBD	-	-	-	3.68	-	-	-
CBDA	-	-	-	1.35	-	-	-
CBDV	-	-	-	0.590	-	-	-
CBDVA	-	-	-	1.57	-	-	-
CBG	DET	-	DET	2.39	-	-	-
CBGA	1.04	0.0939	10.4	1.71	-	10.4	10.4
CBL	-	-	-	2.76	-	-	-
CBN	-	-	-	1.27	-	-	-
CBNA	DET	-	DET	1.37	-	-	-
Δ9-ΤΗС	1.10	0.0986	11.0	1.52	-	11.0	11.0
Δ8-ΤΗС	-	-	-	2.37	-	-	-
THCA	25.0	2.25	250	0.825	-	250	250
THCV	-	-	-	1.97	-	-	-
THCVA	0.368	0.0110	3.68	0.629	-	3.68	3.68
TOTAL	27.5	2.45	275			275	275
TOTAL CBC	-	_	-			-	-
TOTAL CBD	-	-	-		-	-	-
TOTAL CBDV	-	-	-		-	-	-
TOTAL CBG	0.916	0.0824	9.16		-	9.16	9.16
TOTAL CBN	-	-	-		-	-	-
TOTAL THC	23.0	2.07	230		-	230	230
TOTAL THCV	0.319	0.00956	3.19		-	3.19	3.19

^{*} 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) + 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.





[&]quot;-" Not detected above LOD.









CERTIFICATE OF ANALYSIS (SAMPLE ID: SA34243)

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:

M00065C13138323980

Production Run: 6020H20221201O432 Sample Type: Primary

Matrix: Flower

Mass: 23g

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

Date Completed: 02/05/2023

TERPENOID PROFILE

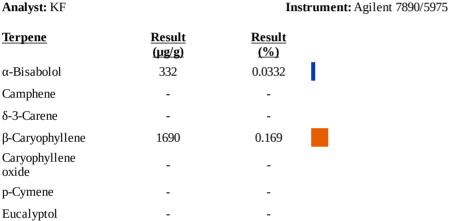
Analysis Date/Time:02/04/2023 0942 Method: GC/MS

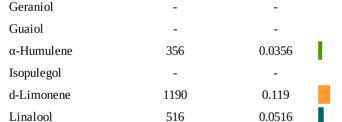
Analyst: KF

Cultivar (Strain) or Sample Description: Orange 43

Deviations from SOP:

None





β-Myrcene 2990 0.299 cis-Nerolidol 0.00925 trans-Nerolidol 92.5

0.0563 **β-Ocimene** 563 α-Pinene 137 0.0137 **B-Pinene** 650 0.0650

y-Terpinene Terpinolene 5230 0.523

13700

1.37



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

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"-" Not detected above RL

Reporting Limit (µg/g): 44.9



α-Ocimene

α-Terpinene

TOTAL











CERTIFICATE OF ANALYSIS (SAMPLE ID: SA34243)

Testing Location:

Arkansas 232 S. Broadview St. Greenbrier, AR 72058

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

Customer ID: 2161

River Valley Relief Cultivation 5601 Old Greenwood Rd Suite C

Fort Smith, AR 72903

License: 00065C

Order ID: OR10284

Lot Number:

M00065C13138323980

Production Run: 6020H20221201O432 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 0846

Analyst: KF

Method: LC/MS/MS

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)	Action Level (µg/g)
Abamectin (71751-41-2)	-	0.0449	0.359	0.5	Kresoxim-methyl	_	0.0449	0.359	0.4
Acephate (30560-19-1)	-	0.0449	0.359	0.4	(143390-89-0)				
Acequinocyl (57960-19-7)	-	0.0449	0.359	2	Malathion (121-75-5)	-	0.0449	0.359	0.2
Acetamiprid (135410-20-7)	-	0.0449	0.359	0.2	Metalaxyl (57837-19-1) Methiocarb (2032-65-7)	-	0.0449 0.0449	0.359 0.359	0.2 0.2
Aldicarb (116-06-3)	-	0.0449	0.359	0.4	Methomyl (16752-77-5)	-	0.0449	0.359	0.4
Azoxystrobin (131860-33-8)	-	0.0449	0.359	0.2	Methyl parathion (298-0-0)	-	0.0449	0.359	0.2
Bifenazate (149877-41-8)	-	0.0449	0.359	0.2	MGK 264 (113-48-4)	-	0.0449	0.359	0.2
Bifenthrin (82657-04-3)	-	0.0449	0.359	0.2	Myclobutanil		0.0449	0.359	0.2
Boscalid (188425-85-6)	-	0.0449	0.359	0.4	(88671-89-0)				
Carbaryl (63-25-2)	-	0.0449	0.359	0.2	Naled (300-76-5)	-	0.0449	0.359	0.5
Carbofuran (1563-66-2)	-	0.0449	0.359	0.2	Oxamyl (23135-22-0)	-	0.0449	0.359	1
Chlorantraniliprole (800008-45-7)	-	0.0449	0.359	0.2	Paclobutrazol (76738-62-0)	-	0.0449	0.359	0.4
Chlorfenapyr (122453-73-0)	-	0.0449	0.359	1	Permethrins (52645-53-1) Phosmet (732-11-6)	-	0.0449 0.0449	0.359 0.359	0.2 0.2
Chlorpyrifos (2921-88-2)	-	0.0449	0.359	0.2	Piperonyl butoxide		0.0449	0.359	2
Clofentezine (74115-24-5)	-	0.0449	0.359	0.2	(51-03-6)		0.0449	0.333	2
Cyfluthrin (68359-37-5)	-	0.0449	0.359	1	Prallethrins (2331-36-9)	-	0.0449	0.359	0.2
Cypermethrin (52315-07-8)	-	0.0449	0.359	1	Propiconazole (60207-90-1))	-	0.0449	0.359	0.4
Daminozide (1596-84-5)	-	0.0449	0.359	1	Propoxur (114-26-1)	-	0.0449	0.359	0.2
DDVP (62-73-7)	-	0.0449	0.359	0.1	Pyrethrins (8003-34-7)	-	0.0449	0.359	1
Diazinon (333-41-5)	-	0.0449	0.359	0.2	Pyridaben (96489-71-3)	-	0.0449	0.359	0.2
Dimethoate (60-51-5)	-	0.0449	0.359	0.2	Spinosad (168316-95-8)	-	0.0449	0.359	0.2
Ethoprophos (13194-48-4)	-	0.0449	0.359	0.2	Spiromesifen	_	0.0449	0.359	0.2
Etofenprox (80844-07-1)	-	0.0449	0.359	0.4	(283594-90-1) Spirotetramat				
Etoxazole (153233-91-1)	-	0.0449	0.359	0.2	(203313-25-1)	-	0.0449	0.359	0.2
Fenoxycarb (72490-01-8)	-	0.0449	0.359	0.2	Spiroxamine		0.0440	0.250	0.4
(E)-Fenpyroximate (134098-61-6)	-	0.0449	0.359	0.4	(118134-30-8) Tebuconazole	-	0.0449	0.359	0.4
Fipronil (120068-37-3)	-	0.0449	0.359	0.4	(80443-41-0)	-	0.0449	0.359	0.4
Flonicamid (158062-67-0)	-	0.0449	0.359	1	Thiacloprid	_	0.0449	0.359	0.2
Fludioxinil (131341-86-1)	-	0.0449	0.359	0.4	(111988-49-9)		0.01.5	0.555	0.2
Hexythiazox (78587-05-0)	-	0.0449	0.359	1	Thiamethoxam (153719-23-4)	-	0.0449	0.359	0.2
Imazalil (35554-44-0)	-	0.0449	0.359	0.2	Trifloxystrobin				
Imidacloprid (138261-41-3)	-	0.0449	0.359	0.4	(141517-21-7)		0.0449	0.359	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		











6020H20221201O432



Date Received: 01/30/2023

CERTIFICATE OF ANALYSIS (SAMPLE ID: SA34243)

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 M00065C13138323980 Mass: 23g
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

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

Analysis Date/Time: 02/04/2023 0902 (ICP/OES) Method: ICP/OES Deviations from SOP:

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

Analyst: KF

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<u>Heavy Metal</u>	<u>Result</u> (μg/kg)	<u>LOD</u> (µg/kg)	<u>LOQ</u> (µg/kg)	<u>Action Level</u> (μg/kg)
Arsenic (As)	-	57.4	90.8	200
Cadmium (Cd)	-	57.4	90.8	200
Lead (Pb)	-	57.4	90.8	500
Mercury (Hg)	_	57.4	90.8	100

License: 00065C



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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232 S. Broadview St.





M00065C13138323980



CERTIFICATE OF ANALYSIS (SAMPLE ID: SA34243)

Testing Location:Customer ID: 2161Sample ID: SA34243Sample Type: PrimaryArkansasRiver Valley Relief CultivationLot Number:Matrix: Flower

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

 License: ADA 05_H273
 License: 00065C
 6020H202212010432
 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

5601 Old Greenwood Rd Suite C

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	-



Mass: 23g

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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