

License: ADH 113





6027H20230227



Date Received: 03/27/2023

SUMMARY OF ANALYSIS (SAMPLE ID: SA34810)

Testing Location:Customer ID: 2161Order ID: OR10373Sample Type: PrimaryArkansasRiver Valley Relief CultivationLot Number:Matrix: Flower

232 S. Broadview St. 5601 Old Greenwood Rd Suite C M00065C13136268078 Mass: 16g
Greenbrier, AR 72058 Fort Smith, AR 72903 Production Run: Date Collected: 03/27/2023

Cultivar (Strain) or Sample Description: Orange 43

Date Completed: 03/30/2023

*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

 12.5
 0.424 @ 24.5°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.

| Cannabino | ds (Top 3) | <u>(%)</u> | mg/g |
|-----------------|------------|----------------|----------------|
| THO | CA | 27.0 | 270 |
| Δ9-Τ | HC | 1.38 | 13.8 |
| CBC | GA . | 1.26 | 12.6 |
| TOTAI | CBD | - | • |
| TOTAI | THC | 25.0 | 250 |
| TOTAL CANI | NABINOIDS | 29.8 | 298 |
| <u>Terpenes</u> | (Top 5) | <u>(%)</u> | µg/g |
| Terpin | olene | 0.351 | 3510 |
| β-Myr | cene | 0.244 | 2440 |
| Gua | iol | 0.221 | 2210 |
| d-Limo | onene | 0.120 | 1200 |
| β-Pin | ene | 0.0895 | 895 |
| TOTAL TE | RPENES | 1.57 | 15700 |
| Contaminants | PASS/FAIL | Sample Picture | e Upon Receipt |

| 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: SA34810)

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: OR10373 Lot Number: M00065C13136268078

Production Run: 6027H20230227

Sample Type: Primary Matrix: Flower

Mass: 16g

Date Collected: 03/27/2023 **Date Received:** 03/27/2023

Date Completed: 03/30/2023

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

Analysis Date/Time: 3/28/2023 1718 Method: HPLC/DAD Moisture Content (%): 12.5

Analyst: PW Instrument: Agilent 1100

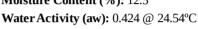
| <u>Cannabinoid</u> | Result (%) | Result (mg/g) | LOD (mg/g) | LOQ (mg/g) | Result (mg/ mL) | Per Serving (mg) | Per Unit (mg) |
|--------------------|---------------|------------------|---------------|---------------|-----------------------|------------------------|---------------------|
| CBC | ND | ND | 0.208 | 0.486 | - | - | - |
| CBCA | ND | ND | 0.647 | 1.51 | - | - | - |
| CBD | ND | ND | 1.47 | 3.43 | - | - | - |
| CBDA | ND | ND | 0.541 | 1.26 | - | - | - |
| CBDV | ND | ND | 0.236 | 0.550 | - | - | - |
| CBDVA | ND | ND | 0.628 | 1.47 | - | - | - |
| CBG | ND | ND | 0.954 | 2.23 | - | - | - |
| CBGA | 1.26 | 12.6 | 0.683 | 1.59 | - | 12.6 | 12.6 |
| CBL | ND | ND | 1.10 | 2.57 | - | - | - |
| CBN | ND | ND | 0.506 | 1.18 | - | - | - |
| CBNA | ND | ND | 0.546 | 1.27 | - | - | - |
| Δ9-ΤΗС | 1.38 | 13.8 | 0.606 | 1.41 | - | 13.8 | 13.8 |
| Δ8-ΤΗС | ND | ND | 0.946 | 2.21 | - | - | - |
| THCA | 27.0 | 270 | 0.329 | 0.769 | - | 270 | 270 |
| THCV | ND | ND | 0.789 | 1.84 | - | - | - |
| THCVA | 0.132 | 1.32 | 0.252 | 0.586 | - | 1.32 | 1.32 |
| TOTAL | 29.8 | 298 | | | | 298 | 298 |
| TOTAL CBC | - | - | | | | _ | - |
| TOTAL CBD | - | - | | | - | - | - |
| TOTAL CBDV | - | - | | | - | - | - |
| TOTAL CBG | 1.11 | 11.1 | | | - | 11.1 | 11.1 |
| TOTAL CBN | - | - | | | - | - | - |
| TOTAL THC | 25.0 | 250 | | | - | 250 | 250 |
| TOTAL THCV | 0.114 | 1.14 | | | - | 1.14 | 1.14 |
| | | | | | | | |

^{*} 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 = $(CBCA \times 0.877) + CBC$ 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) + 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.





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









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: OR10373 Lot Number:

M00065C13136268078

Production Run: 6027H20230227

Sample Type: Primary

Matrix: Flower **Mass:** 16g

Date Collected: 03/27/2023 **Date Received:** 03/27/2023

Date Completed: 03/30/2023

TERPENOID PROFILE

Analysis Date/Time:03/29/2023 1800

Analyst: KF

Cultivar (Strain) or Sample Description: Orange 43

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

Reporting Limit (µg/g): 41.8

Terpene Result Result <u>(%)</u> $(\mu g/g)$ 0.0553 α-Bisabolol 553 Camphene 215 0.0215 δ-3-Carene 223 0.0223 β-Caryophyllene 894 0.0894 Caryophyllene 884 0.0884 oxide p-Cymene Eucalyptol Geraniol 2210 0.221 Guaiol α-Humulene 200 0.0200 Isopulegol d-Limonene 1200 0.120 Linalool 541 0.0541 β-Myrcene 2440 0.244 cis-Nerolidol 0.00985 trans-Nerolidol 98.5 α-Ocimene 0.0630 **β-Ocimene** 630 α-Pinene 575 0.0575 **B-Pinene** 895 0.0895 α-Terpinene 232 0.0232 y-Terpinene 416 0.0416 Terpinolene 3510 0.351 **TOTAL** 15700 1.57





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03/30/2023









Testing Location: Arkansas

232 S. Broadview St.

Greenbrier, AR 72058 License: ADH 113

Analyst: KF

Customer ID: 2161

River Valley Relief Cultivation 5601 Old Greenwood Rd Suite C

Fort Smith, AR 72903

License: 00065C

Order ID: OR10373

Lot Number:

M00065C13136268078

Production Run:

6027H20230227

Sample Type: Primary

Matrix: Flower

Mass: 16g

Date Collected: 03/27/2023 **Date Received:** 03/27/2023

Date Completed: 03/30/2023

PESTICIDES PROFILE (SOP: SOP-PEST-001)

Analysis Date/Time: 03/28/2023 1940

Cultivar (Strain) or Sample Description: Orange 43

Method: LC/MS/MS

Instrument: Shimadzu LC-8050

Deviations from SOP:

None

| <u>e</u> | <u>Result</u> (μg/g) | LOD (µg/g) | LOQ (µg/g) | Action Level (µg/g) | |
|---------------------|-------------------------|---------------|---------------|---------------------------|---|
| m-methyl -89-0) | - | 0.0418 | 0.334 | 0.4 | |
| on (121-75-5) | - | 0.0418 | 0.334 | 0.2 | |
| yl (57837-19-1) | - | 0.0418 | 0.334 | 0.2 | *************************************** |
| arb (2032-65-7) | - | 0.0418 | 0.334 | 0.2 | <u>Color Key</u> |

"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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| <u>Pesticide</u> | <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) | LOQ (µg/g) | Action Level (µg/g) | |
|------------------------|-------------------------|----------------------|---------------|---|--------------------|------------------|----------------------|---------------|---------------------------|--|
| Abamagtin (71751 41 2) | | 0.0410 | 0.224 | 0.5 | L'ung avrim mathyl | | | | | |

| | (µg/g) | (µg/g) | (µg/g) | (µg/g) | | (µg/g) | (µg/g) | (µg/g) | (µg/g) |
|--------------------------------------|--------|--------|--------|--------|----------------------------------|--------|--------|--------|--------|
| Abamectin (71751-41-2) | - | 0.0418 | 0.334 | 0.5 | Kresoxim-methyl | _ | 0.0418 | 0.334 | 0.4 |
| Acephate (30560-19-1) | - | 0.0418 | 0.334 | 0.4 | (143390-89-0) | | | | |
| Acequinocyl (57960-19-7) | - | 0.0418 | 0.334 | 2 | Malathion (121-75-5) | - | 0.0418 | 0.334 | 0.2 |
| Acetamiprid | _ | 0.0418 | 0.334 | 0.2 | Metalaxyl (57837-19-1) | - | 0.0418 | 0.334 | 0.2 |
| (135410-20-7) | | | | | Methiocarb (2032-65-7) | - | 0.0418 | 0.334 | 0.2 |
| Aldicarb (116-06-3) | - | 0.0418 | 0.334 | 0.4 | Methomyl (16752-77-5) | - | 0.0418 | 0.334 | 0.4 |
| Azoxystrobin (131860-33-8) | - | 0.0418 | 0.334 | 0.2 | Methyl parathion (298-0-0) | - | 0.0418 | 0.334 | 0.2 |
| Bifenazate (149877-41-8) | - | 0.0418 | 0.334 | 0.2 | MGK 264 (113-48-4) | - | 0.0418 | 0.334 | 0.2 |
| Bifenthrin (82657-04-3) | - | 0.0418 | 0.334 | 0.2 | Myclobutanil | _ | 0.0418 | 0.334 | 0.2 |
| Boscalid (188425-85-6) | - | 0.0418 | 0.334 | 0.4 | (88671-89-0) | | | | |
| Carbaryl (63-25-2) | - | 0.0418 | 0.334 | 0.2 | Naled (300-76-5) | - | 0.0418 | 0.334 | 0.5 |
| Carbofuran (1563-66-2) | - | 0.0418 | 0.334 | 0.2 | Oxamyl (23135-22-0) | - | 0.0418 | 0.334 | 1 |
| Chlorantraniliprole (800008-45-7) | - | 0.0418 | 0.334 | 0.2 | Paclobutrazol (76738-62-0) | - | 0.0418 | 0.334 | 0.4 |
| Chlorfenapyr | | 0.0418 | 0.334 | 1 | Permethrins (52645-53-1) | - | 0.0418 | 0.334 | 0.2 |
| (122453-73-0) | _ | 0.0416 | 0.334 | 1 | Phosmet (732-11-6) | - | 0.0418 | 0.334 | 0.2 |
| Chlorpyrifos (2921-88-2) | - | 0.0418 | 0.334 | 0.2 | Piperonyl butoxide | _ | 0.0418 | 0.334 | 2 |
| Clofentezine (74115-24-5) | - | 0.0418 | 0.334 | 0.2 | (51-03-6) | | 0.0410 | 0.224 | 0.0 |
| Cyfluthrin (68359-37-5) | - | 0.0418 | 0.334 | 1 | Prallethrins (2331-36-9) | - | 0.0418 | 0.334 | 0.2 |
| Cypermethrin (52315-07-8) | - | 0.0418 | 0.334 | 1 | Propiconazole (60207-90-1)) | - | 0.0418 | 0.334 | 0.4 |
| Daminozide (1596-84-5) | - | 0.0418 | 0.334 | 1 | Propoxur (114-26-1) | - | 0.0418 | 0.334 | 0.2 |
| DDVP (62-73-7) | - | 0.0418 | 0.334 | 0.1 | Pyrethrins (8003-34-7) | - | 0.0418 | 0.334 | 1 |
| Diazinon (333-41-5) | - | 0.0418 | 0.334 | 0.2 | Pyridaben (96489-71-3) | - | 0.0418 | 0.334 | 0.2 |
| Dimethoate (60-51-5) | - | 0.0418 | 0.334 | 0.2 | Spinosad (168316-95-8) | - | 0.0418 | 0.334 | 0.2 |
| Ethoprophos (13194-48-4) | - | 0.0418 | 0.334 | 0.2 | Spiromesifen | _ | 0.0418 | 0.334 | 0.2 |
| Etofenprox (80844-07-1) | - | 0.0418 | 0.334 | 0.4 | (283594-90-1) Spirotetramat | | | | |
| Etoxazole (153233-91-1) | - | 0.0418 | 0.334 | 0.2 | (203313-25-1) | - | 0.0418 | 0.334 | 0.2 |
| Fenoxycarb (72490-01-8) | - | 0.0418 | 0.334 | 0.2 | Spiroxamine | | 0.0410 | 0.224 | 0.4 |
| (E)-Fenpyroximate (134098-61-6) | - | 0.0418 | 0.334 | 0.4 | (118134-30-8) Tebuconazole | - | 0.0418 | 0.334 | 0.4 |
| Fipronil (120068-37-3) | - | 0.0418 | 0.334 | 0.4 | (80443-41-0) | - | 0.0418 | 0.334 | 0.4 |
| Flonicamid (158062-67-0) | - | 0.0418 | 0.334 | 1 | Thiacloprid | | 0.0418 | 0.334 | 0.2 |
| Fludioxinil (131341-86-1) | _ | 0.0418 | 0.334 | 0.4 | (111988-49-9) | | 0.0410 | 0.554 | 0.2 |
| Hexythiazox (78587-05-0) | - | 0.0418 | 0.334 | 1 | Thiamethoxam | - | 0.0418 | 0.334 | 0.2 |
| Imazalil (35554-44-0) | - | 0.0418 | 0.334 | 0.2 | (153719-23-4) Trifloxystrobin | | | | |
| Imidacloprid (138261-41-3) | - | 0.0418 | 0.334 | 0.4 | (141517-21-7) | - | 0.0418 | 0.334 | 0.2 |
| | | | | | | | | | |

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 | | |













Testing Location: Customer ID: 2161 Order ID: OR10373

Arkansas River Valley Relief Cultivation
232 S. Broadview St. 5601 Old Greenwood Rd Suite C
Greenbrier, AR 72058 Fort Smith, AR 72903

Cultivar (Strain) or Sample Description: Orange 43

Fort Smith, AR 72903 License: 00065C Order ID: OR10373 Lot Number:

M00065C13136268078

Production Run: 6027H20230227

Sample Type: Primary

Matrix: Flower Mass: 16g

Date Collected: 03/27/2023 **Date Received:** 03/27/2023

Date Completed: 03/30/2023

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

Analysis Date/Time: 3/28/2023 1948 (ICP/OES) Method: ICP/OES Deviations from SOP:

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

Analyst: KF

License: ADH 113

| Heavy Metal | <u>Result</u> (μg/kg) | <u>LOD</u> (µg/kg) | LOQ (µg/kg) | <u>Action Level</u> (μg/kg) |
|--------------|--------------------------|-----------------------|----------------|--------------------------------|
| Arsenic (As) | - | 57.8 | 91.6 | 200 |
| Cadmium (Cd) | - | 57.8 | 91.6 | 200 |
| Lead (Pb) | - | 57.8 | 91.6 | 500 |
| Mercury (Hg) | - | 57.8 | 91.6 | 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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Testing Location:Customer ID: 2161Sample ID: SA34810Sample Type: PrimaryArkansasRiver Valley Relief CultivationLot Number:Matrix: Flower232 S. Broadview St.5601 Old Greenwood Rd Suite CM00065C13136268078Mass: 16g

 Greenbrier, AR 72058
 Fort Smith, AR 72903
 Production Run: Date Collected: 03/27/2023

 License: ADA 05_H273
 License: 00065C
 6027H20230227
 Date Received: 03/27/2023

Cultivar (Strain) or Sample Description: Orange 43

Date Completed: 03/30/2023

MICROBIOLOGICAL PROFILE (SOP: SOP-Micro-001)

Analysis Date/Time: 03/29/2023 1127 Method: Hardy Diagnostics CompactDry Deviations from SOP:

Analyst: PW Instrument: Thermo Incubator None

| Bacteria/Microbe | Result (CFU/g) | Action Level (CFU/g) |
|----------------------------|-------------------|-------------------------|
| Aerobic Plate Count | NT | - |
| Coliforms, Total | Absent | 1 |
| Escherichia Coli (E. Coli) | NT | 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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