







SUMMARY OF ANALYSIS (SAMPLE ID: SA36621)

| Testing Location: | Customer ID: 2161 | Order ID: OR10758 | Sample Type: Primary |
|--------------------------------|---------------------------------|--------------------------|----------------------------|
| Arkansas | River Valley Relief Cultivation | Lot Number: | Matrix: Flower |
| 232 S. Broadview St. | 5601 Old Greenwood Rd Suite C | M00065C13132457788 | Mass: 23g |
| Greenbrier, AR 72058 | Fort Smith, AR 72903 | Production Run: | Date Collected: 12/11/2023 |
| License: ADH 113 | License: 00065C | 5047H20231023BBF-2 | Date Received: 12/12/2023 |
| Cultivar (Strain) or Sample De | Date Completed: 12/13/2023 | | |

*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 |
|----------------------|---------------------|-----------|
| 13.4 | 0.446 @ 24.4℃ | PASS |

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

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

| Cannabinoids (Top 3) | <u>(%)</u> | <u>mg</u> /g |
|--|-------------------------|----------------------|
| THCA | 18.1 | 181 |
| CBGA | 1.01 | 10.1 |
| THCVA | 0.704 | 7.04 |
| TOTAL CBD | - | |
| TOTAL THC | 16.5 | 165 |
| TOTAL CANNABINOIDS | 20.4 | 204 |
| | | |
| <u>Terpenes (Top 5)</u> | <u>(%)</u> | <u>µg/g</u> |
| <u>Terpenes (Top 5)</u> Terpinolene | <u>(%)</u> 0.459 | µg/g 4590 |
| | | |
| Terpinolene | 0.459 | 4590 |
| Terpinolene β-Pinene | 0.459 0.176 | 4590 1760 |
| Terpinolene β-Pinene β-Caryophyllene | 0.459 0.176 0.143 | 4590 1760 1430 |

| Contaminants | PASS/FAIL | |
|---------------------|-----------|--|
| Heavy Metals: | PASS | |
| Microbiology: | PASS | |
| Pesticides: | PASS | |





Scan the QR code to verify results.

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REPORT OF LABORATORY ANALYSIS

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

Analysis Date/Time: 12/12/2023 1533 Analyst: PW

Method: HPLC/DAD Instrument: Agilent 1100

| <u>Cannabinoid</u> | <u>Result</u> (<u>%)</u> | <u>Result</u> (mg/g) | <u>LOD</u> (mg/g) | <u>LOQ</u> (mg/g) | <u>Result</u> (mg/ mL) | <u>Per</u> Serving (mg) | <u>Per</u> g <u>Unit</u> (mg) |
|--------------------|------------------------------|-------------------------|----------------------|----------------------|------------------------------|-------------------------------|-------------------------------------|
| CBC | ND | ND | 0.0455 | 0.106 | - | - | - |
| CBCA | ND | ND | 0.141 | 0.329 | - | - | - |
| CBD | ND | ND | 0.321 | 0.748 | - | - | - |
| CBDA | ND | ND | 0.118 | 0.276 | - | - | - |
| CBDV | ND | ND | 0.0514 | 0.120 | - | - | - |
| CBDVA | ND | ND | 0.137 | 0.320 | - | - | - |
| CBG | ND | ND | 0.208 | 0.486 | - | - | - |
| CBGA | 1.01 | 10.1 | 0.295 | 0.348 | - | 8.78 | 8.78 |
| CBL | ND | ND | 0.240 | 0.561 | - | - | - |
| CBN | ND | ND | 0.110 | 0.258 | - | - | - |
| CBNA | ND | ND | 0.119 | 0.278 | - | - | - |
| Δ9-ΤΗC | 0.622 | 6.22 | 0.132 | 0.309 | - | 5.39 | 5.39 |
| $\Delta 8$ -THC | ND | ND | 0.207 | 0.482 | - | - | - |
| THCA | 18.1 | 181 | 0.0718 | 0.168 | - | 157 | 157 |
| THCV | ND | ND | 0.172 | 0.401 | - | - | - |
| THCVA | 0.704 | 7.04 | 0.0550 | 0.128 | - | 6.10 | 6.10 |
| TOTAL | 20.4 | 204 | | | | 177 | 177 |
| TOTAL CBC | - | - | | | | - | - |
| TOTAL CBD | - | - | | | - | - | - |
| TOTAL CBDV | - | - | | | - | - | - |
| TOTAL CBG | 0.890 | 8.90 | | | - | 7.71 | 7.71 |
| TOTAL CBN | - | - | | | - | - | - |
| TOTAL THC | 16.5 | 165 | | | - | 143 | 143 |
| TOTAL THCV | 0.611 | 6.11 | | | - | 5.29 | 5.29 |
| | | | | | | | |

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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Moisture Content (%): 13.4 Water Activity (aw): 0.446 @ 24.4°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 x 0.877) + CBD Total CBDV = (CBDVA x 0.867) + CBDV Total CBG = $(CBGA \times 0.878) + CBG$ Total CBN = (CBNA x 0.876) + CBN Total THC = (THCA x 0.877) + Δ 9-THC Total THCV = $(THCVA \times 0.867) + THCV$

Percentage results are reported by mass.

mg/g results are reported as mass component per mass material.













Order ID: OR10758 **Testing Location:** Customer ID: 2161 Arkansas **River Valley Relief Cultivation** Lot Number: 232 S. Broadview St. 5601 Old Greenwood Rd Suite C M00065C13132457788 Greenbrier, AR 72058 Fort Smith, AR 72903 **Production Run:** 5047H20231023BBF-2 License: ADH 113 License: 00065C Cultivar (Strain) or Sample Description: Bens Buffalo

Sample Type: Primary Matrix: Flower Mass: 23g Date Collected: 12/11/2023 Date Received: 12/12/2023 Date Completed: 12/13/2023

Analysis Date/Time:12/12/2023 1956 Analyst: KF

TERPENOID PROFILE

Method: GC/MS Instrument: Agilent 7890/5975

Deviations from SOP: None

| <u>Terpene</u> | <u>Result</u> (µg/g) | <u>Result</u> (%) | |
|------------------------|--|----------------------|---|
| α-Bisabolol | 465 | 0.0465 | |
| Camphene | <loq< td=""><td>-</td><td></td></loq<> | - | |
| δ-3-Carene | 432 | 0.0432 | |
| β-Caryophyllene | 1430 | 0.143 | |
| Caryophyllene oxide | ND | - | |
| p-Cymene | ND | - | |
| Eucalyptol | ND | - | |
| Geraniol | ND | - | |
| Guaiol | ND | - | |
| α-Humulene | 532 | 0.0532 | |
| Isopulegol | ND | - | |
| d-Limonene | 1360 | 0.136 | |
| Linalool | 731 | 0.0731 | |
| β-Myrcene | <loq< td=""><td>-</td><td></td></loq<> | - | |
| cis-Nerolidol | 166 | 0.0166 | |
| trans-Nerolidol | ND | - | |
| α-Ocimene | ND | - | |
| β-Ocimene | 764 | 0.0764 | |
| α-Pinene | 399 | 0.0399 | 1 |
| β-Pinene | 1760 | 0.176 | |
| α-Terpinene | 166 | 0.0166 | |
| γ-Terpinene | 133 | 0.0133 | |
| Terpinolene | 4590 | 0.459 | |
| TOTAL | 12900 | 1.29 | |



Abbreviations: GC - Gas Chromatography, MS - Mass Spectrometry, RL - Reporting Limit Abbreviations: ND - Not Detected, , LOD - Limit of Detection, LOQ - Limit of Quantitation

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Reporting Limit (µg/g): 83.1

"-" Not detected above LOD.













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|-------------------------------|--|--------------------|-----------------------------------|
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| License: ADH 113 | License: 00065C | 5047H20231023BBF-2 | Date Received: 12/12/2023 |
| Cultivar (Strain) or Sample I | Date Completed: 12/13/2023 | | |

Analysis Date/Time: 12/12/2023 1556

PESTICIDES PROFILE (SOP: SOP-PEST-001)

Method: LC/MS/MS

| - J | | | | Deviations from | | | | | | |
|--------------------------------------|-------------------------|----------------------|----------------------|----------------------------------|--|-------------------------|----------------------|----------------|----------------------------------|---------------------------|
| Analyst: KF | | | | | Instrument: Shimadzu LC-8050 | | | None | | |
| <u>Pesticide</u> | <u>Result</u> (µg/g) | <u>LOD</u> (µg/g) | <u>LOQ</u> (µg/g) | <u>Action</u> Level (µg/g) | <u>Pesticide</u> | <u>Result</u> (µg/g) | <u>LOD</u> (µg/g) | LOQ (µg/g) | <u>Action</u> Level (µg/g) | |
| Abamectin (71751-41-2) | - | 0.0495 | 0.396 | 0.5 | Kresoxim-methyl | _ | 0.0495 | 0.396 | 0.4 | |
| Acephate (30560-19-1) | - | 0.0495 | 0.396 | 0.4 | (143390-89-0) | | 0.040- | 0.000 | | |
| Acequinocyl (57960-19-7) | - | 0.0495 | 0.396 | 2 | Malathion (121-75-5) | - | 0.0495 | 0.396 | 0.2 | |
| Acetamiprid (135410-20-7) | - | 0.0495 | 0.396 | 0.2 | Metalaxyl (57837-19-1) Methiocarb (2032-65-7) | - | 0.0495 0.0495 | 0.396 0.396 | 0.2 0.2 | |
| Aldicarb (116-06-3) | - | 0.0495 | 0.396 | 0.4 | Methomyl (16752-77-5) | - | 0.0495 | 0.396 | 0.4 | F |
| Azoxystrobin (131860-33-8) | - | 0.0495 | 0.396 | 0.2 | Methyl parathion (298-0-0) | - | 0.0495 | 0.396 | 0.2 | F |
| Bifenazate (149877-41-8) | - | 0.0495 | 0.396 | 0.2 | MGK 264 (113-48-4) | - | 0.0495 | 0.396 | 0.2 | "DET" d |
| Bifenthrin (82657-04-3) | - | 0.0495 | 0.396 | 0.2 | Myclobutanil | | 0.0495 | 0.396 | 0.2 | "-" n |
| Boscalid (188425-85-6) | - | 0.0495 | 0.396 | 0.4 | (88671-89-0) | - | 0.0495 | 0.396 | 0.2 | - 11 |
| Carbaryl (63-25-2) | - | 0.0495 | 0.396 | 0.2 | Naled (300-76-5) | - | 0.0495 | 0.396 | 0.5 | |
| Carbofuran (1563-66-2) | - | 0.0495 | 0.396 | 0.2 | Oxamyl (23135-22-0) | - | 0.0495 | 0.396 | 1 | Permeth cumulativ |
| Chlorantraniliprole (800008-45-7) | - | 0.0495 | 0.396 | 0.2 | Paclobutrazol (76738-62-0) | - | 0.0495 | 0.396 | 0.4 | trans- |
| Chlorfenapyr | | | | | Permethrins (52645-53-1) | - | 0.0495 | 0.396 | 0.2 | Pyreth |
| (122453-73-0) | - | 0.0495 | 0.396 | 1 | Phosmet (732-11-6) | - | 0.0495 | 0.396 | 0.2 | cumul pyrethrin I |
| Chlorpyrifos (2921-88-2) | - | 0.0495 | 0.396 | 0.2 | Piperonyl butoxide | _ | 0.0495 | 0.396 | 2 | P.) |
| Clofentezine (74115-24-5) | - | 0.0495 | 0.396 | 0.2 | (51-03-6) | | | | | Action lev |
| Cyfluthrin (68359-37-5) | - | 0.0495 | 0.396 | 1 | Prallethrins (2331-36-9) | - | 0.0495 | 0.396 | 0.2 | Action iev |
| Cypermethrin (52315-07-8) | - | 0.0495 | 0.396 | 1 | Propiconazole (60207-90-1)) | - | 0.0495 | 0.396 | 0.4 | State of A |
| Daminozide (1596-84-5) | - | 0.0495 | 0.396 | 1 | Propoxur (114-26-1) | - | 0.0495 | 0.396 | 0.2 | A value of |
| DDVP (62-73-7) | - | 0.0495 | 0.396 | 0.1 | Pyrethrins (8003-34-7) | - | 0.0495 | 0.396 | 1 | means |
| Diazinon (333-41-5) | - | 0.0495 | 0.396 | 0.2 | Pyridaben (96489-71-3) | - | 0.0495 | 0.396 | 0.2 | curren |
| Dimethoate (60-51-5) | - | 0.0495 | 0.396 | 0.2 | Spinosad (168316-95-8) | - | 0.0495 | 0.396 | 0.2 | regulatio |
| Ethoprophos (13194-48-4) | - | 0.0495 | 0.396 | 0.2 | Spiromesifen | - | 0.0495 | 0.396 | 0.2 | Disclaim |
| Etofenprox (80844-07-1) | - | 0.0495 | 0.396 | 0.4 | (283594-90-1) | | | | | provided no claims o |
| Etoxazole (153233-91-1) | - | 0.0495 | 0.396 | 0.2 | Spirotetramat (203313-25-1) | - | 0.0495 | 0.396 | 0.2 | of this |
| Fenoxycarb (72490-01-8) | - | 0.0495 | 0.396 | 0.2 | Spiroxamine | _ | 0.0495 | 0.396 | 0.4 | applicable analyze |
| (E)-Fenpyroximate (134098-61-6) | - | 0.0495 | 0.396 | 0.4 | (118134-30-8) Tebuconazole | | 0.0495 | | | analysis co for inform |
| Fipronil (120068-37-3) | - | 0.0495 | 0.396 | 0.4 | (80443-41-0) | - | 0.0495 | 0.396 | 0.4 | and sh |
| Flonicamid (158062-67-0) | - | 0.0495 | 0.396 | 1 | Thiacloprid | _ | 0.0495 | 0.396 | 0.2 | diagnose medical-r |
| Fludioxinil (131341-86-1) | - | 0.0495 | 0.396 | 0.4 | (111988-49-9) | | | | | statements |
| Hexythiazox (78587-05-0) | - | 0.0495 | 0.396 | 1 | Thiamethoxam (153719-23-4) | - | 0.0495 | 0.396 | 0.2 | not be |
| Imazalil (35554-44-0) | - | 0.0495 | 0.396 | 0.2 | Trifloxystrobin | | | | | endo |
| Imidacloprid (138261-41-3) | - | 0.0495 | 0.396 | 0.4 | (141517-21-7) | - | 0.0495 | 0.396 | 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

Pesticide Synonym(s) **Pesticide** Synonym(s) **Pesticide** Cyfluthrin Myclobutanil Baythroid Systhane Propiconazole DDVP Dichlorvos Naled Dibrom Propoxur Prophos Phosmet Imidan Ethoprophos



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Deviations from SOP:



Color Key

detected less than LOQ

not detected above LOD

thrins measured as the ve residue of the *cis*- and - permethrin isomers.

hrins measured as the ulative residue of the I, cinerin I, and jasmolin I isomers.

evels are referenced from the

Arkansas MMJ testing guidelines.

of "-" for the action level ns that analyte is not ently regulated by the tions referenced above.

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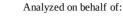
Synonym(s)

Tilt

Baygon









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|-------------------------------|--|--------------------------|----------------------------|
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HEAVY METAL PROFILE (SOP: SOP-ICP-200.6)

| Analysis Date/Time: 12/13/2023 0846 (ICP/OES) Analysis Date/Time: - (DMA) Analyst: KF | | | - | thod: ICP/MS trument: Agilent 75 | Deviations from SOP: 00ce None |
|---|--------------------------|-----------------------|-----------------------|-------------------------------------|--|
| <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) | - | 59.0 | 93.5 | 200 | |
| Cadmium (Cd) | - | 59.0 | 93.5 | 200 | |
| Lead (Pb) | - | 59.0 | 93.5 | 500 | A A A |
| Mercury (Hg) | - | 59.0 | 93.5 | 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

<u>Color Key</u>



"DET" detected less than LOQ

"-" not detected above LOD

Action levels for heavy metals are referenced from the State of Arkansas MMJ testing guidelines.

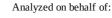
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| License: ADA 05_H273 | License: 00065C | 5047H20231023BBF-2 | Date Received: 12/12/2023 |
| Cultivar (Strain) or Sample De | Date Completed: 12/13/2023 | | |

MICROBIOLOGICAL PROFILE (SOP: SOP-Micro-001)

| Analysis Date/Time: 12/13/20 Analyst: PW | | Hardy Diagnostics Compacent: Thermo Incubator | Deviations from SOP: None |
|---|--------------------------|---|------------------------------|
| Bacteria/Microbe | <u>Result</u> (CFU/g) | <u>Action Level</u> (CFU/g) | |
| Aerobic Plate Count | NT | - | |
| Coliforms, Total | Absent | 1 | 2013 1 20 8 48 |
| Escherichia Coli (E. Coli) | Absent | 100 | |
| Mold/Yeast | NT | - | |
| Pseudomonas aeruginosa | NT | - | |
| Salmonella spp. | NT | - | C REAL AND A |
| 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





1

Action levels for microbiology 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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