







SUMMARY OF ANALYSIS (SAMPLE ID: SA34174)

| Testing Location: | Customer ID: 2161 | Order ID: OR10269 | Sample Type: Primary | | | |
|---|---------------------------------|--------------------|-----------------------------------|--|--|--|
| Arkansas | River Valley Relief Cultivation | Lot Number: | Matrix: Flower | | | |
| 232 S. Broadview St. | 5601 Old Greenwood Rd Suite C | M00065C13134406142 | Mass: 23g | | | |
| Greenbrier, AR 72058 | Fort Smith, AR 72903 | Production Run: | Date Collected: 01/18/2023 | | | |
| License: ADH 113 | License: 00065C | 4018H20220902BBF-1 | Date Received: 01/18/2023 | | | |
| Cultivar (Strain) or Sample Description: Bens BuffaloDate 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 |
|----------------------|---------------------|-----------|
| 12.3 | 0.465 @ 23.8℃ | 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.

| <u>Cannabinoids (Top 3)</u> | <u>(%)</u> | <u>mg</u> /g |
|--|--------------------------|---------------------------|
| THCA | 15.1 | 151 |
| Δ9-ТНС | 1.05 | 10.5 |
| CBGA | 0.715 | 7.15 |
| TOTAL CBD | - | - |
| TOTAL THC | 14.3 | 143 |
| TOTAL CANNABINOIDS | 17.6 | 176 |
| | | |
| <u>Terpenes (Top 5)</u> | <u>(%)</u> | hā\ā |
| <u>Terpenes (Top 5)</u> Caryophyllene oxide | <u>(%)</u> 0.396 | <mark>µg/g</mark> 3960 |
| | | |
| Caryophyllene oxide | 0.396 | 3960 |
| Caryophyllene oxide Terpinolene | 0.396 0.161 | 3960 1610 |
| Caryophyllene oxide Terpinolene Linalool | 0.396 0.161 0.0625 | 3960 1610 625 |

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





Scan the QR code to verify results.

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Kyle W. Felling, Ph.D. aboratory Director

REPORT OF LABORATORY ANALYSIS

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CERTIFICATE OF ANALYSIS (SAMPLE ID: SA34174)

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| Cultivar (Strain) or Sample I | Date Completed: 01/23/2023 | | |

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

Analysis Date/Time: 1/20/2023 1635 Analyst: PW Method: HPLC/DAD Instrument: Agilent 1100

| <u>Cannabinoid</u> | <u>Result</u> (%) | <u>UM</u> (+/-%) | <u>Result</u> (mg/g) | LOQ (mg/g) | <u>Result</u> (mg/ mL) | <u>Per</u> <u>Serving</u> (mg) | <u>Per</u> g <u>Unit</u> (mg) |
|--------------------|----------------------|---------------------|-------------------------|---------------|------------------------------|--------------------------------------|-------------------------------------|
| CBC | - | - | - | 1.05 | - | - | - |
| CBCA | - | - | - | 3.25 | - | - | - |
| CBD | - | - | - | 7.38 | - | - | - |
| CBDA | - | - | - | 2.72 | - | - | - |
| CBDV | - | - | - | 1.18 | - | - | - |
| CBDVA | - | - | - | 3.16 | - | - | - |
| CBG | - | - | - | 4.79 | - | - | - |
| CBGA | 0.715 | 0.0644 | 7.15 | 3.43 | - | 7.15 | 7.15 |
| CBL | - | - | - | 5.53 | - | - | - |
| CBN | - | - | - | 2.54 | - | - | - |
| CBNA | - | - | - | 2.74 | - | - | - |
| Δ9-ΤΗC | 1.05 | 0.0943 | 10.5 | 3.04 | - | 10.5 | 10.5 |
| $\Delta 8$ -THC | - | - | - | 4.75 | - | - | - |
| THCA | 15.1 | 1.36 | 151 | 1.65 | - | 151 | 151 |
| THCV | - | - | - | 3.96 | - | - | - |
| THCVA | 0.706 | 0.0212 | 7.06 | 1.26 | - | 7.06 | 7.06 |
| TOTAL | 17.6 | 1.54 | 176 | | - | 176 | 176 |
| TOTAL CBC | - | - | - | | - | - | - |
| TOTAL CBD | - | - | - | | - | - | - |
| TOTAL CBDV | - | - | - | | - | - | - |
| TOTAL CBG | 0.628 | 0.0565 | 6.28 | | - | 6.28 | 6.28 |
| TOTAL CBN | - | - | - | | - | - | - |
| TOTAL THC | 14.3 | 1.29 | 143 | | - | 143 | 143 |
| TOTAL THCV | 0.612 | 0.0184 | 6.12 | | - | 6.12 | 6.12 |

* 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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The statements and results herein have not been approved and/or endorsed by the FDA.

Moisture Content (%): 12.3 Water Activity (aw): 0.465 @ 23.81°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.

Kyle W. Felling, Ph.D. tory Dire

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CERTIFICATE OF ANALYSIS (SAMPLE ID: SA34174)

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|---|---------------------------------|--------------------------|--|--|--|--|
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| Greenbrier, AR 72058 | Fort Smith, AR 72903 | Production Run: | | | | |
| License: ADH 113 | License: 00065C | 4018H20220902BBF-1 | | | | |
| Cultivar (Strain) or Sample Description: Bens Buffalo | | | | | | |

Sample Type: Primary Matrix: Flower Mass: 23g Date Collected: 01/18/2023 Date Received: 01/18/2023 Date Completed: 01/23/2023

| TERPENOID PROFILE |
|-------------------|
| |

| Analysis Date/Time:0 Analyst: KF | 01/20/2023 2027 | | l ethod: GC/MS I strument: Agilent 7890/5975 | Deviations from SOP: None |
|-------------------------------------|-------------------------|----------------------|---|---|
| <u>Terpene</u> | <u>Result</u> (µg/g) | <u>Result</u> (%) | | |
| α-Bisabolol | 120 | 0.0120 | | A BANKA |
| Camphene | - | - | | |
| δ-3-Carene | - | - | | |
| β-Caryophyllene | 251 | 0.0251 | | |
| Caryophyllene oxide | 3960 | 0.396 | | A State of the second |
| p-Cymene | - | - | | A STATE OF A |
| Eucalyptol | - | - | | 1 Martin Martin Martin |
| Geraniol | - | - | | |
| Guaiol | - | - | | Abbreviations: GC - Gas |
| α-Humulene | - | - | | Chromatography, MS - Mass |
| Isopulegol | - | - | | Spectrometry, RL - Reporting Limit |
| d-Limonene | 302 | 0.0302 | | This information is provided as a service and makes no claims of efficacy and/or |
| Linalool | 625 | 0.0625 | | safety of this product. |
| β-Myrcene cis-Nerolidol | 479 | 0.0479 | • | Results are applicable only for the sample(s) analyzed and for the specific analysis conducted. |
| trans-Nerolidol | - | - | | This report is for informational purposes |
| α-Ocimene | - | - | | only and should not be used to diagnose, treat, or prevent any |
| β-Ocimene | 311 | 0.0311 | 1 | medical-related symptoms. |
| α-Pinene | | - | | The statements and results herein have |
| β-Pinene | - | - | | not been approved and/or endorsed by the FDA. |
| ' α-Terpinene | - | - | | |
| γ-Terpinene | - | - | | |
| Terpinolene | 1610 | 0.161 | | " " Not detected above DI |
| TOTAL | 7660 | 0.766 | | "-" Not detected above RL. Reporting Limit (µg/g): 45.0 |













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| License: ADH 113 | License: 00065C | 4018H20220902BBF-1 | Date Received: 01/18/2023 |
| Cultivar (Strain) or Sample | Date Completed: 01/23/2023 | | |

Analysis Date/Time: 01/20/2023 1828 Analyst: KF

PESTICIDES PROFILE (SOP: SOP-PEST-001)

Method: LC/MS/MS Instrument: Shimadzu LC-8050

| None | | | zu LC-8050 | | Instrument: Shimadz | | | Analyst: KF | | |
|-------------------------------------|---|--|--|-------------------------|--|---|--|--|-------------------------|---|
| | <u>Action</u> Level (µg/g) | LOQ (µg/g) | <u>LOD</u> (µg/g) | <u>Result</u> (µg/g) | <u>Pesticide</u> | <u>Action</u> Level (µg/g) | LOQ (µg/g) | <u>LOD</u> (µg/g) | <u>Result</u> (µg/g) | <u>Pesticide</u> |
| | 0.4 | 0.360 | 0.0450 | - | Kresoxim-methyl | 0.5 | 0.360 | 0.0450 | - | Abamectin (71751-41-2) |
| tri. | 0.2 | 0.200 | 0.0450 | | (143390-89-0) | 0.4 | 0.360 | 0.0450 | - | Acephate (30560-19-1) |
| n | 0.2 | 0.360 | 0.0450 | - | Malathion (121-75-5) | 2 | 0.360 | 0.0450 | - | Acequinocyl (57960-19-7) |
| | 0.2 0.2 | 0.360 0.360 | 0.0450 0.0450 | | Metalaxyl (57837-19-1) Methiocarb (2032-65-7) | 0.2 | 0.360 | 0.0450 | - | Acetamiprid (135410-20-7) |
| | 0.4 | 0.360 | 0.0450 | - | Methomyl (16752-77-5) | 0.4 | 0.360 | 0.0450 | - | Aldicarb (116-06-3) |
| | 0.2 | 0.360 | 0.0450 | - | Methyl parathion (298-0-0) | 0.2 | 0.360 | 0.0450 | - | Azoxystrobin (131860-33-8) |
| "DET" d | 0.2 | 0.360 | 0.0450 | - | MGK 264 (113-48-4) | 0.2 | 0.360 | 0.0450 | - | Bifenazate (149877-41-8) |
| "-" r | 0.2 | 0.360 | 0.0450 | _ | Myclobutanil | 0.2 | 0.360 | 0.0450 | - | Bifenthrin (82657-04-3) |
| 1 | | | | | (88671-89-0) | 0.4 | 0.360 | 0.0450 | - | Boscalid (188425-85-6) |
| Permet | 0.5 | 0.360 | 0.0450 | - | Naled (300-76-5) | 0.2 | 0.360 | 0.0450 | - | Carbaryl (63-25-2) |
| cumulativ | 1 | 0.360 | 0.0450 | | Oxamyl (23135-22-0) | 0.2 | 0.360 | 0.0450 | - | Carbofuran (1563-66-2) |
| trans- | 0.4 | 0.360 | 0.0450 | - | Paclobutrazol (76738-62-0) | 0.2 | 0.360 | 0.0450 | - | Chlorantraniliprole (800008-45-7) |
| Pyreth | 0.2 | 0.360 | 0.0450 | - | Permethrins (52645-53-1) | 1 | 0.360 | 0.0450 | | Chlorfenapyr |
| pyrethrin | 0.2 | 0.360 | 0.0450 | - | Phosmet (732-11-6) | 1 | 0.360 | 0.0450 | - | (122453-73-0) |
| | 2 | 0.360 | 0.0450 | - | | | | 0.0450 | - | Chlorpyrifos (2921-88-2) |
| Action le | 0.2 | 0.200 | 0.0450 | | . , | 0.2 | 0.360 | 0.0450 | - | Clofentezine (74115-24-5) |
| | 0.2 | 0.360 | 0.0450 | - | · · · · · · · · · · · · · · · · · · · | 1 | 0.360 | 0.0450 | - | Cyfluthrin (68359-37-5) |
| State of . | 0.4 | 0.360 | 0.0450 | - | (60207-90-1)) | 1 | 0.360 | 0.0450 | - | Cypermethrin (52315-07-8) |
| A value o | | | | - | | 1 | 0.360 | 0.0450 | - | Daminozide (1596-84-5) |
| mean | | | | - | , , , , , , , , , , , , , , , , , , , | 0.1 | 0.360 | 0.0450 | - | DDVP (62-73-7) |
| curren | | | | | · · · · · | 0.2 | 0.360 | 0.0450 | - | Diazinon (333-41-5) |
| regulati | 0.2 | 0.360 | 0.0450 | - | , | 0.2 | 0.360 | 0.0450 | - | Dimethoate (60-51-5) |
| Disclaim | 0.2 | 0.360 | 0.0450 | - | | 0.2 | 0.360 | 0.0450 | - | Ethoprophos (13194-48-4) |
| provided no claims | | | | | . , | 0.4 | 0.360 | 0.0450 | - | Etofenprox (80844-07-1) |
| of this | 0.2 | 0.360 | 0.0450 | - | | 0.2 | 0.360 | 0.0450 | - | Etoxazole (153233-91-1) |
| applicabl | 0.4 | 0.000 | 0.0450 | | Spiroxamine | 0.2 | 0.360 | 0.0450 | - | Fenoxycarb (72490-01-8) |
| analyze analysis c for inforr | | | | - | (118134-30-8) Tebuconazole | 0.4 | 0.360 | 0.0450 | - | (E)-Fenpyroximate (134098-61-6) |
| and sh | 0.4 | 0.360 | 0.0450 | - | (80443-41-0) | 0.4 | 0.360 | 0.0450 | - | Fipronil (120068-37-3) |
| diagnos | 0.2 | 0.360 | 0.0450 | | Thiacloprid | 1 | 0.360 | 0.0450 | - | Flonicamid (158062-67-0) |
| medical- statements | 0.2 | 5.500 | 5.0400 | | | 0.4 | 0.360 | 0.0450 | - | Fludioxinil (131341-86-1) |
| not be | 0.2 | 0.360 | 0.0450 | - | | 1 | 0.360 | 0.0450 | - | Hexythiazox (78587-05-0) |
| end | | | | | · / | 0.2 | 0.360 | 0.0450 | - | Imazalil (35554-44-0) |
| | 0.2 | 0.360 | 0.0450 | - | (141517-21-7) | 0.4 | 0.360 | 0.0450 | | Imidacloprid |
| | 2 0.2 0.4 0.2 1 0.2 0.2 0.2 0.2 0.2 0.4 0.4 0.2 | 0.360 0.360 0.360 0.360 0.360 0.360 0.360 0.360 0.360 0.360 | 0.0450 0.0450 0.0450 0.0450 0.0450 0.0450 0.0450 0.0450 0.0450 0.0450 0.0450 | | Piperonyl butoxide (51-03-6) Prallethrins (2331-36-9) Propiconazole (60207-90-1)) Propoxur (114-26-1) Pyrethrins (8003-34-7) Pyridaben (96489-71-3) Spinosad (168316-95-8) Spiromesifen (283594-90-1) Spirotetramat (203313-25-1) Spirotetramat (203313-25-1) Spiroxamine (118134-30-8) Tebuconazole (80443-41-0) Thiacloprid (111988-49-9) Thiamethoxam (153719-23-4) | 0.2 0.2 1 1 0.1 0.2 0.2 0.2 0.2 0.4 0.2 0.4 0.4 1 0.4 1 0.2 | 0.360 0.360 0.360 0.360 0.360 0.360 0.360 0.360 0.360 0.360 0.360 0.360 0.360 0.360 0.360 0.360 | 0.0450 0.0450 0.0450 0.0450 0.0450 0.0450 0.0450 0.0450 0.0450 0.0450 0.0450 0.0450 0.0450 0.0450 0.0450 0.0450 0.0450 | | Chlorpyrifos (2921-88-2) Clofentezine (74115-24-5) Cyfluthrin (68359-37-5) Cypermethrin (52315-07-8) Daminozide (1596-84-5) DDVP (62-73-7) Diazinon (333-41-5) Dimethoate (60-51-5) Ethoprophos (13194-48-4) Etofenprox (80844-07-1) Etoxazole (153233-91-1) Etoxazole (153233-91-1) Fenoxycarb (72490-01-8) (E)-Fenpyroximate (134098-61-6) Fipronil (120068-37-3) Flonicamid (158062-67-0) Fludioxinil (131341-86-1) Hexythiazox (78587-05-0) Imazalil (35554-44-0) |

Deviations from SOP:

None



Color Key

RESULT Δ1 detected less than LOQ " not detected above LOD nethrins measured as the tive residue of the *cis*- and s-permethrin isomers. ethrins measured as the nulative residue of the n I, cinerin I, and jasmolin I isomers. levels are referenced from the of Arkansas MMJ testing guidelines. of "-" for the action level ans that analyte is not ently regulated by the ations referenced above. imer: This information is ed as a service and makes ns of efficacy and/or safety is product. Results are ble only for the sample(s) zed and for the specific conducted. This report is rmational purposes only should not be used to ose, treat, or prevent any al-related symptoms. The nts and results herein have

not been approved and/or endorsed by the FDA.

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



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

| Analysis Date/Time: 01/20/2023 1432 (ICP/OES) Analysis Date/Time: - (DMA) Analyst: KF | | | Method: ICP/OES Instrument: Agilent 720-ES | | Deviations from SOP: ES 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) | - | 57.0 | 90.2 | 200 | ATA |
| Cadmium (Cd) | - | 57.0 | 90.2 | 200 | |
| Lead (Pb) | - | 57.0 | 90.2 | 500 | |
| Mercury (Hg) | - | 57.0 | 90.2 | 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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| Cultivar (Strain) or Sample De | Date Completed: 01/23/2023 | | |

MICROBIOLOGICAL PROFILE (SOP: SOP-Micro-001)

| Analysis Date/Time: 2023012 Analyst: PW | | Hardy Diagnostics CompactDry nt: Thermo Incubator | Deviations from SOP: None |
|--|--------------------------|--|-------------------------------------|
| <u>Bacteria/Microbe</u> | <u>Result</u> (CFU/g) | <u>Action Level</u> (CFU/g) | |
| Aerobic Plate Count | NT | - | ATTA |
| Coliforms, Total | Absent | 1 | |
| Escherichia Coli (E. Coli) | Absent | 100 | |
| Mold/Yeast | NT | - | Mr. Carsonal |
| Pseudomonas aeruginosa | NT | 1 | and the second second |
| Salmonella spp. | NT | - | A CAR A LANDA DI |
| Staphylococcus aureus | NT | - | He K |

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

<u>Color Key</u>



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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