

SUMMARY OF ANALYSIS (SAMPLE ID: SA36956)

| | | | |
|--|---|--|--|
| 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: OR10842 Lot Number: M00065C13138301647 Production Run: 3052H20231221RSR-1 | Sample Type: Primary Matrix: Flower Mass: 23g Date Collected: 01/29/2024 Date Received: 01/30/2024 Date Completed: 01/31/2024 |
| Cultivar (Strain) or Sample Description: Ryleighs Reserve | | | |

*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 (%)

10.0

Water Activity (aw)

0.404 @ 24.5°C

PASS/FAIL

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) | (%) | mg/g |
|-----------------------------|------------|-------------|
| THCA | 25.9 | 259 |
| CBGA | 0.970 | 9.70 |
| Δ9-THC | 0.284 | 2.84 |
| TOTAL CBD | - | - |
| TOTAL THC | 23.0 | 230 |
| TOTAL CANNABINOIDS | 27.3 | 273 |

| Terpenes (Top 5) | (%) | µg/g |
|-------------------------|------------|-------------|
| β-Caryophyllene | 0.842 | 8420 |
| β-Myrcene | 0.557 | 5570 |
| d-Limonene | 0.456 | 4560 |
| Linalool | 0.276 | 2760 |
| α-Humulene | 0.0818 | 818 |
| TOTAL TERPENES | 2.36 | 23600 |

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

Sample Picture Upon Receipt



Scan the QR code to verify results.

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

Analysis Date/Time: 01/30/2024 1148 **Method:** HPLC/DAD **Moisture Content (%):** 10.0
Analyst: PW **Instrument:** Agilent 1100 **Water Activity (aw):** 0.404 @ 24.5°C

| <u>Cannabinoid</u> | <u>Result (%)</u> | <u>Result (mg/g)</u> | <u>LOD (mg/g)</u> | <u>LOQ (mg/g)</u> | <u>Result (mg/mL)</u> | <u>Per Serving (mg)</u> | <u>Per Unit (mg)</u> |
|--------------------|-------------------|----------------------|-------------------|-------------------|-----------------------|-------------------------|----------------------|
| CBC | ND | ND | 0.0439 | 0.102 | - | - | - |
| CBCA | ND | ND | 0.136 | 0.318 | - | - | - |
| CBD | ND | ND | 0.310 | 0.723 | - | - | - |
| CBDV | ND | ND | 0.114 | 0.266 | - | - | - |
| CBDVA | ND | ND | 0.133 | 0.309 | - | - | - |
| CBG | ND | ND | 0.201 | 0.470 | - | - | - |
| CBGA | 0.970 | 9.70 | 0.285 | 0.336 | - | 8.73 | 8.73 |
| CBL | ND | ND | 0.232 | 0.542 | - | - | - |
| CBN | ND | ND | 0.107 | 0.249 | - | - | - |
| CBNA | ND | ND | 0.115 | 0.269 | - | - | - |
| Δ9-THC | 0.284 | 2.84 | 0.128 | 0.298 | - | 2.56 | 2.56 |
| Δ8-THC | ND | ND | 0.200 | 0.466 | - | - | - |
| THCA | 25.9 | 259 | 0.0693 | 0.162 | - | 233 | 233 |
| THCV | ND | ND | 0.166 | 0.388 | - | - | - |
| THCVA | 0.148 | 1.48 | 0.0532 | 0.124 | - | 1.33 | 1.33 |
| TOTAL | 27.3 | 273 | | | | 246 | 246 |
| TOTAL CBC | - | - | | | | - | - |
| TOTAL CBD | - | - | | | | - | - |
| TOTAL CBDV | - | - | | | | - | - |
| TOTAL CBG | 0.852 | 8.52 | | | | 7.67 | 7.67 |
| TOTAL CBN | - | - | | | | - | - |
| TOTAL THC | 23.0 | 230 | | | | 207 | 207 |
| TOTAL THCV | 0.129 | 1.29 | | | | 1.16 | 1.16 |



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 = (CBDV x 0.867) + 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) + Δ9-THC
 Total THCV = (THCVA x 0.867) + THCVA

Percentage results are reported by mass.

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

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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TERPENOID PROFILE

Analysis Date/Time: 01/30/2024 2328
Analyst: KF

Method: GC/MS
Instrument: Agilent 7890/5975

Deviations from SOP:
None

| Terpene | Result (µg/g) | Result (%) | |
|---------------------|----------------------|-------------------|---|
| α-Bisabolol | 41.8 | 0.00418 | |
| Camphene | 137 | 0.0137 | |
| δ-3-Carene | ND | - | |
| β-Caryophyllene | 8420 | 0.842 | █ |
| Caryophyllene oxide | ND | - | |
| p-Cymene | 30.6 | 0.00306 | |
| Eucalyptol | ND | - | |
| Geraniol | ND | - | |
| Guaiol | 2.24 | 0.000224 | |
| α-Humulene | 818 | 0.0818 | █ |
| Isopulegol | ND | - | |
| d-Limonene | 4560 | 0.456 | █ |
| Linalool | 2760 | 0.276 | █ |
| β-Myrcene | 5570 | 0.557 | █ |
| cis-Nerolidol | ND | - | |
| trans-Nerolidol | 207 | 0.0207 | |
| α-Ocimene | ND | - | |
| β-Ocimene | ND | - | |
| α-Pinene | 434 | 0.0434 | |
| β-Pinene | 507 | 0.0507 | █ |
| α-Terpinene | ND | - | |
| γ-Terpinene | ND | - | |
| Terpinolene | 68.6 | 0.00686 | |
| TOTAL | 23600 | 2.36 | |



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): 1.87

"-" Not detected above LOD.

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Kyle W. Felling
Kyle W. Felling, Ph.D.
Laboratory Director

www.FASTLaboratories.com



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PESTICIDES PROFILE (SOP: SOP-PEST-001)

Analysis Date/Time: 01/30/2024 1256
Analyst: KF

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

Deviations from SOP:
None

| Pesticide | Result (µg/g) | LOD (µg/g) | LOQ (µg/g) | Action Level (µg/g) | Pesticide | Result (µg/g) | LOD (µg/g) | LOQ (µg/g) | Action Level (µg/g) |
|-----------------------------------|---------------|------------|------------|---------------------|-------------------------------|---------------|------------|------------|---------------------|
| Abamectin (71751-41-2) | - | 0.0480 | 0.384 | 0.5 | Kresoxim-methyl (143390-89-0) | - | 0.0480 | 0.384 | 0.4 |
| Acephate (30560-19-1) | - | 0.0480 | 0.384 | 0.4 | Malathion (121-75-5) | - | 0.0480 | 0.384 | 0.2 |
| Acequinocyl (57960-19-7) | - | 0.0480 | 0.384 | 2 | Metalaxyl (57837-19-1) | - | 0.0480 | 0.384 | 0.2 |
| Acetamiprid (135410-20-7) | - | 0.0480 | 0.384 | 0.2 | Methiocarb (2032-65-7) | - | 0.0480 | 0.384 | 0.2 |
| Aldicarb (116-06-3) | - | 0.0480 | 0.384 | 0.4 | Methomyl (16752-77-5) | - | 0.0480 | 0.384 | 0.4 |
| Azoxystrobin (131860-33-8) | - | 0.0480 | 0.384 | 0.2 | Methyl parathion (298-0-0) | - | 0.0480 | 0.384 | 0.2 |
| Bifenazate (149877-41-8) | - | 0.0480 | 0.384 | 0.2 | MGK 264 (113-48-4) | - | 0.0480 | 0.384 | 0.2 |
| Bifenthrin (82657-04-3) | - | 0.0480 | 0.384 | 0.2 | Myclobutanil (88671-89-0) | - | 0.0480 | 0.384 | 0.2 |
| Boscalid (188425-85-6) | - | 0.0480 | 0.384 | 0.4 | Naled (300-76-5) | - | 0.0480 | 0.384 | 0.5 |
| Carbaryl (63-25-2) | - | 0.0480 | 0.384 | 0.2 | Oxamyl (23135-22-0) | - | 0.0480 | 0.384 | 1 |
| Carbofuran (1563-66-2) | - | 0.0480 | 0.384 | 0.2 | Pacllobutrazol (76738-62-0) | - | 0.0480 | 0.384 | 0.4 |
| Chlorantraniliprole (800008-45-7) | - | 0.0480 | 0.384 | 0.2 | Permethrins (52645-53-1) | - | 0.0480 | 0.384 | 0.2 |
| Chlorfenapyr (122453-73-0) | - | 0.0480 | 0.384 | 1 | Phosmet (732-11-6) | - | 0.0480 | 0.384 | 0.2 |
| Chlorpyrifos (2921-88-2) | - | 0.0480 | 0.384 | 0.2 | Piperonyl butoxide (51-03-6) | - | 0.0480 | 0.384 | 2 |
| Clofentezine (74115-24-5) | - | 0.0480 | 0.384 | 0.2 | Prallethrins (2331-36-9) | - | 0.0480 | 0.384 | 0.2 |
| Cyfluthrin (68359-37-5) | - | 0.0480 | 0.384 | 1 | Propiconazole (60207-90-1) | - | 0.0480 | 0.384 | 0.4 |
| Cypermethrin (52315-07-8) | - | 0.0480 | 0.384 | 1 | Propoxur (114-26-1) | - | 0.0480 | 0.384 | 0.2 |
| Daminozide (1596-84-5) | - | 0.0480 | 0.384 | 1 | Pyrethrins (8003-34-7) | - | 0.0480 | 0.384 | 1 |
| DDVP (62-73-7) | - | 0.0480 | 0.384 | 0.1 | Pyridaben (96489-71-3) | - | 0.0480 | 0.384 | 0.2 |
| Diazinon (333-41-5) | - | 0.0480 | 0.384 | 0.2 | Spinosad (168316-95-8) | - | 0.0480 | 0.384 | 0.2 |
| Dimethoate (60-51-5) | - | 0.0480 | 0.384 | 0.2 | Spiromesifen (283594-90-1) | - | 0.0480 | 0.384 | 0.2 |
| Ethoprophos (13194-48-4) | - | 0.0480 | 0.384 | 0.2 | Spirotetramat (203313-25-1) | - | 0.0480 | 0.384 | 0.2 |
| Etofenprox (80844-07-1) | - | 0.0480 | 0.384 | 0.4 | Spiroxamine (118134-30-8) | - | 0.0480 | 0.384 | 0.4 |
| Etoxazole (153233-91-1) | - | 0.0480 | 0.384 | 0.2 | Tebuconazole (80443-41-0) | - | 0.0480 | 0.384 | 0.4 |
| Fenoxycarb (72490-01-8) | - | 0.0480 | 0.384 | 0.2 | Thiacloprid (111988-49-9) | - | 0.0480 | 0.384 | 0.2 |
| (E)-Fenpyroximate (134098-61-6) | - | 0.0480 | 0.384 | 0.4 | Thiamethoxam (153719-23-4) | - | 0.0480 | 0.384 | 0.2 |
| Fipronil (120068-37-3) | - | 0.0480 | 0.384 | 0.4 | Trifloxystrobin (141517-21-7) | - | 0.0480 | 0.384 | 0.2 |
| Fonicamid (158062-67-0) | - | 0.0480 | 0.384 | 1 | | | | | |
| Fludioxinil (131341-86-1) | - | 0.0480 | 0.384 | 0.4 | | | | | |
| Hexythiazox (78587-05-0) | - | 0.0480 | 0.384 | 1 | | | | | |
| Imazalil (35554-44-0) | - | 0.0480 | 0.384 | 0.2 | | | | | |
| Imidacloprid (138261-41-3) | - | 0.0480 | 0.384 | 0.4 | | | | | |



Color Key

| |
|-------------|
| RESULT < AL |
| RESULT > AL |

"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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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 | Baythroid | Myclobutanil | Systhane | Propiconazole | Tilt |
| DDVP | Dichlorvos | Naled | Dibrom | Propoxur | Baygon |
| Ethoprophos | Prophos | Phosmet | Imidan | | |

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Kyle W. Felling
Kyle W. Felling, Ph.D.
Laboratory Director



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

Analysis Date/Time: 01/31/2024 1955 (ICP/OES) **Method:** ICP/MS **Deviations from SOP:**
Analysis Date/Time: - (DMA) **Instrument:** Agilent 7500ce None
Analyst: KF

| <u>Heavy Metal</u> | <u>Result (µg/kg)</u> | <u>LOD (µg/kg)</u> | <u>LOQ (µg/kg)</u> | <u>Action Level (µg/kg)</u> |
|--------------------|-----------------------|--------------------|--------------------|-----------------------------|
| Arsenic (As) | - | 59.0 | 93.5 | 200 |
| Cadmium (Cd) | - | 59.0 | 93.5 | 200 |
| Lead (Pb) | - | 59.0 | 93.5 | 500 |
| 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

Color Key



"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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 Kyle W. Felling, Ph.D.
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MICROBIOLOGICAL PROFILE (SOP: SOP-Micro-001)

Analysis Date/Time: 01/31/2024 1029 **Method:** Hardy Diagnostics CompactDry **Deviations from SOP:**
Analyst: PW **Instrument:** Thermo Incubator None

| <u>Bacteria/Microbe</u> | <u>Result (CFU/g)</u> | <u>Action Level (CFU/g)</u> |
|----------------------------|-----------------------|-----------------------------|
| Aerobic Plate Count | NT | - |
| Coliforms, Total | Absent | 1 |
| Escherichia Coli (E. Coli) | Absent | 100 |
| Mold/Yeast | NT | - |
| Pseudomonas aeruginosa | NT | - |
| 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)
1

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