

SUMMARY OF ANALYSIS (SAMPLE ID: SA42462)

| | | | |
|--|---|--|---|
| 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: OR11861 Lot Number: M00065C13133192027 Production Run: 7112H20250925CAR-3 | Sample Type: Primary Matrix: Flower Mass: 23g Date Collected: 10/23/2025 Date Received: 10/23/2025 |
| Cultivar (Strain) or Sample Description: Cadillac Rainbow | | | Date Completed: 10/27/2025 |

*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.
*Where provided, statements of conformity (e.g. Pass/Fail) are made in accordance with ILAC G8, Binary Statement for Simple Acceptance Rule (w=0, AL=TL).
PASS: when the result is within the acceptance interval. FAIL: when the result is outside the acceptance interval

Moisture Content (%)

9.80

Water Activity (aw)

0.422 @ 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 | 32.3 | 323 |
| CBGA | 1.59 | 15.9 |
| CBCA | 0.400 | 4.00 |
| TOTAL CBD | 0.000 | 0.000 |
| TOTAL THC | 28.5 | 285 |
| TOTAL CANNABINOIDS | 34.7 | 347 |

| Terpenes (Top 5) | (%) | ppm |
|-------------------------|------------|------------|
| d-Limonene | 0.517 | 5170 |
| β-Caryophyllene | 0.502 | 5020 |
| α-Humulene | 0.207 | 2070 |
| β-Myrcene | 0.199 | 1990 |
| β-Pinene | 0.0715 | 715 |
| TOTAL TERPENES | 2.01 | 20100 |

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



Scan the QR code to verify results.

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



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

Analysis Date/Time: 10/24/2025 1541 **Method:** HPLC/DAD **Moisture Content (%):** 9.80
Analyst: PW **Instrument:** Agilent 1100 **Water Activity (aw):** 0.422 @ 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 | 0.0406 | 0.0948 | - | 0.000 | 0.000 |
| CBCA | 0.400 | 4.00 | 0.126 | 0.294 | - | 3.61 | 3.61 |
| CBD | ND | ND | 0.287 | 0.669 | - | 0.000 | 0.000 |
| CBDA | ND | ND | 0.105 | 0.246 | - | 0.000 | 0.000 |
| CBDV | ND | ND | 0.0460 | 0.107 | - | 0.000 | 0.000 |
| CBDVA | ND | ND | 0.123 | 0.286 | - | 0.000 | 0.000 |
| CBG | 0.112 | 1.12 | 0.186 | 0.434 | - | 1.01 | 1.01 |
| CBGA | 1.59 | 15.9 | 0.264 | 0.311 | - | 14.3 | 14.3 |
| CBL | ND | ND | 0.215 | 0.502 | - | 0.000 | 0.000 |
| CBN | ND | ND | 0.0987 | 0.231 | - | 0.000 | 0.000 |
| CBNA | ND | ND | 0.107 | 0.248 | - | 0.000 | 0.000 |
| Δ9-THC | 0.174 | 1.74 | 0.118 | 0.276 | - | 1.57 | 1.57 |
| Δ8-THC | ND | ND | 0.185 | 0.431 | - | 0.000 | 0.000 |
| THCA | 32.3 | 323 | 0.0641 | 0.150 | - | 291 | 291 |
| THCV | ND | ND | 0.154 | 0.359 | - | 0.000 | 0.000 |
| THCVA | 0.160 | 1.60 | 0.0492 | 0.114 | - | 1.44 | 1.44 |
| TOTAL | 34.7 | 347 | | | | 313 | 313 |
| TOTAL CBC | 0.351 | 3.51 | | | | 3.17 | 3.17 |
| TOTAL CBD | 0.000 | 0.000 | | | | 0.000 | 0.000 |
| TOTAL CBDV | 0.000 | 0.000 | | | | 0.000 | 0.000 |
| TOTAL CBG | 1.51 | 15.1 | | | | 13.6 | 13.6 |
| TOTAL CBN | 0.000 | 0.000 | | | | 0.000 | 0.000 |
| TOTAL THC | 28.5 | 285 | | | | 257 | 257 |
| TOTAL THC V | 0.139 | 1.39 | | | | 1.25 | 1.25 |



SERVING MASS (g): 1.00
SERVINGS/UNIT: 1

"-" Not reported for this sample.

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.
Dry percent = Wet percent / (1-(Moisture Content/100))

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) + Δ9-THC
Total THC V = (THCVA x 0.867) + THC V

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, ND - Not Detected (less than LOD)

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Laboratory Director



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TERPENOID PROFILE

Analysis Date/Time: 10/24/2025 2321
Analyst: KF

Method: GC/MS
Instrument: Agilent 7890/5975

Deviations from SOP:
None

| Terpene | Result (ppm) | Result (%) | Terpene | Result (ppm) | Result (%) |
|---------------------|--------------|------------|------------------|--------------|------------|
| α-Bisabolol | 278 | 0.0278 | d-Limonene | 5170 | 0.517 |
| L-Borneol | ND | - | Linalool | 663 | 0.0663 |
| D-Borneol | 101 | 0.0101 | l-Menthone | ND | - |
| Camphene | 164 | 0.0164 | Menthol | 92.8 | 0.00928 |
| Camphor | ND | - | β-Myrcene | 1990 | 0.199 |
| δ-3-Carene | <LOQ | - | Nerol | 88.3 | 0.00883 |
| Carvacrol | ND | - | cis-Nerolidol | ND | - |
| Carvone | ND | - | trans-Nerolidol | 181 | 0.0181 |
| β-Caryophyllene | 5020 | 0.502 | Nootkatone | ND | - |
| Caryophyllene oxide | 95.3 | 0.00953 | cis-β-Ocimene | 54.3 | 0.00543 |
| Cedrene | <LOQ | - | trans-β-Ocimene | <LOQ | - |
| Cedrol | ND | - | Octyl acetate | ND | - |
| cis-Citral | ND | - | α-Phellandrene | <LOQ | - |
| trans-Citral | ND | - | Phytane | ND | - |
| Citronellol | ND | - | α-Pinene | 553 | 0.0553 |
| o-Cymene | ND | - | β-Pinene | 715 | 0.0715 |
| m-Cymene | ND | - | Piperitone | ND | - |
| p-Cymene | ND | - | Pulegone | ND | - |
| Eucalyptol | ND | - | Sabinene | 385 | 0.0385 |
| trans-β-Farnesene | 389 | 0.0389 | Sabinene hydrate | <LOQ | - |
| Farnesol 1 | 101 | 0.0101 | Safranal | ND | - |
| Farnesol 2 | 128 | 0.0128 | Squalene | 131 | 0.0131 |
| Fenchone | <LOQ | - | Terpinen-4-ol | <LOQ | - |
| Fenchyl alcohol | 626 | 0.0626 | α-Terpinene | <LOQ | - |
| Geraniol | 66.4 | 0.00664 | γ-Terpinene | <LOQ | - |
| Geranyl acetate | 85.7 | 0.00857 | α-Terpineol | 520 | 0.0520 |
| Guaiol | ND | - | Terpinolene | 64.4 | 0.00644 |
| α-Humulene | 2070 | 0.207 | α-Thujone | 89.5 | 0.00895 |
| Isoborneol | <LOQ | - | Thymol | 64.0 | 0.00640 |
| Isobornyl acetate | ND | - | Valencene | 89.9 | 0.00899 |
| d-Isomenthone | ND | - | d-Valerolactam | ND | - |
| Isopulegol | 84.5 | 0.00845 | Verbenone | ND | - |



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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"-" Not detected above LOD.

TOTAL (ppm) 20100 (%) 2.01 **Reporting Limit (ppm): 44.5**

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PESTICIDES PROFILE (SOP: SOP-PEST-001)

Analysis Date/Time: 10/24/2025 1645
Analyst: KF

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

Deviations from SOP:
None

| Pesticide | Result (ppm) | LOD (ppm) | LOQ (ppm) | Action Level (ppm) | Pesticide | Result (ppm) | LOD (ppm) | LOQ (ppm) | Action Level (ppm) |
|-----------------------------------|--------------|-----------|-----------|--------------------|-------------------------------|--------------|-----------|-----------|--------------------|
| Abamectin (71751-41-2) | - | 0.0444 | 0.355 | 0.5 | Kresoxim-methyl (143390-89-0) | - | 0.0444 | 0.355 | 0.4 |
| Acephate (30560-19-1) | - | 0.0444 | 0.355 | 0.4 | Malathion (121-75-5) | - | 0.0444 | 0.355 | 0.2 |
| Acequinocyl (57960-19-7) | - | 0.0444 | 0.355 | 2 | Metalaxyl (57837-19-1) | - | 0.0444 | 0.355 | 0.2 |
| Acetamiprid (135410-20-7) | - | 0.0444 | 0.355 | 0.2 | Methiocarb (2032-65-7) | - | 0.0444 | 0.355 | 0.2 |
| Aldicarb (116-06-3) | - | 0.0444 | 0.355 | 0.4 | Methomyl (16752-77-5) | - | 0.0444 | 0.355 | 0.4 |
| Azoxystrobin (131860-33-8) | - | 0.0444 | 0.355 | 0.2 | Methyl parathion (298-0-0) | - | 0.0444 | 0.355 | 0.2 |
| Bifenazate (149877-41-8) | - | 0.0444 | 0.355 | 0.2 | MGK 264 (113-48-4) | - | 0.0444 | 0.355 | 0.2 |
| Bifenthrin (82657-04-3) | - | 0.0444 | 0.355 | 0.2 | Myclobutanil (88671-89-0) | - | 0.0444 | 0.355 | 0.2 |
| Boscalid (188425-85-6) | - | 0.0444 | 0.355 | 0.4 | Naled (300-76-5) | - | 0.0444 | 0.355 | 0.5 |
| Carbaryl (63-25-2) | - | 0.0444 | 0.355 | 0.2 | Oxamyl (23135-22-0) | - | 0.0444 | 0.355 | 1 |
| Carbofuran (1563-66-2) | - | 0.0444 | 0.355 | 0.2 | Pacllobutrazol (76738-62-0) | - | 0.0444 | 0.355 | 0.4 |
| Chlorantraniliprole (800008-45-7) | - | 0.0444 | 0.355 | 0.2 | Permethrins (52645-53-1) | - | 0.0444 | 0.355 | 0.2 |
| Chlorfenapyr (122453-73-0) | - | 0.0444 | 0.355 | 1 | Phosmet (732-11-6) | - | 0.0444 | 0.355 | 0.2 |
| Chlorpyrifos (2921-88-2) | - | 0.0444 | 0.355 | 0.2 | Piperonyl butoxide (51-03-6) | - | 0.0444 | 0.355 | 2 |
| Clofentezine (74115-24-5) | - | 0.0444 | 0.355 | 0.2 | Prallethrins (2331-36-9) | - | 0.0444 | 0.355 | 0.2 |
| Cyfluthrin (68359-37-5) | - | 0.0444 | 0.355 | 1 | Propiconazole (60207-90-1) | - | 0.0444 | 0.355 | 0.4 |
| Cypermethrin (52315-07-8) | - | 0.0444 | 0.355 | 1 | Propoxur (114-26-1) | - | 0.0444 | 0.355 | 0.2 |
| Daminozide (1596-84-5) | - | 0.0444 | 0.355 | 1 | Pyrethrins (8003-34-7) | - | 0.0444 | 0.355 | 1 |
| DDVP (62-73-7) | - | 0.0444 | 0.355 | 0.1 | Pyridaben (96489-71-3) | - | 0.0444 | 0.355 | 0.2 |
| Diazinon (333-41-5) | - | 0.0444 | 0.355 | 0.2 | Spinosad (168316-95-8) | - | 0.0444 | 0.355 | 0.2 |
| Dimethoate (60-51-5) | - | 0.0444 | 0.355 | 0.2 | Spiromesifen (283594-90-1) | - | 0.0444 | 0.355 | 0.2 |
| Ethoprophos (13194-48-4) | - | 0.0444 | 0.355 | 0.2 | Spirotetramat (203313-25-1) | - | 0.0444 | 0.355 | 0.2 |
| Etofenprox (80844-07-1) | - | 0.0444 | 0.355 | 0.4 | Spiroxamine (118134-30-8) | - | 0.0444 | 0.355 | 0.4 |
| Etoxazole (153233-91-1) | - | 0.0444 | 0.355 | 0.2 | Tebuconazole (80443-41-0) | - | 0.0444 | 0.355 | 0.4 |
| Fenoxycarb (72490-01-8) | - | 0.0444 | 0.355 | 0.2 | Thiacloprid (111988-49-9) | - | 0.0444 | 0.355 | 0.2 |
| (E)-Fenpyroximate (134098-61-6) | - | 0.0444 | 0.355 | 0.4 | Thiamethoxam (153719-23-4) | - | 0.0444 | 0.355 | 0.2 |
| Fipronil (120068-37-3) | - | 0.0444 | 0.355 | 0.4 | Trifloxystrobin (141517-21-7) | - | 0.0444 | 0.355 | 0.2 |
| Fonicamid (158062-67-0) | - | 0.0444 | 0.355 | 1 | | | | | |
| Fludioxinil (131341-86-1) | - | 0.0444 | 0.355 | 0.4 | | | | | |
| Hexythiazox (78587-05-0) | - | 0.0444 | 0.355 | 1 | | | | | |
| Imazalil (35554-44-0) | - | 0.0444 | 0.355 | 0.2 | | | | | |
| Imidacloprid (138261-41-3) | - | 0.0444 | 0.355 | 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 | Sythane | Propiconazole | Tilt |
| DDVP | Dichlorvos | Naled | Dibrom | Propoxur | Baygon |
| Ethoprophos | Prophos | Phosmet | Imidan | | |

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

Analysis Date/Time: 10/24/2025 1639 **Method:** ICP/MS **Deviations from SOP:** None
Analyst: KF **Instrument:** Agilent 7700x

| <u>Heavy Metal</u> | <u>Result (ppb)</u> | <u>LOD (ppb)</u> | <u>LOQ (ppb)</u> | <u>Action Level (ppb)</u> |
|--------------------|---------------------|------------------|------------------|---------------------------|
| Arsenic (As) | ND | 59.8 | 94.6 | 200 |
| Cadmium (Cd) | ND | 59.8 | 94.6 | 200 |
| Lead (Pb) | ND | 59.8 | 94.6 | 500 |
| Mercury (Hg) | ND | 59.8 | 94.6 | 100 |



Abbreviations: ICP - Inductively-Coupled Plasma, MS - Mass Spectrometry,
 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

"ND" not detected above LOD

Reporting limit is 1/2 the action level of each analyte.

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

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MICROBIOLOGICAL PROFILE (SOP: SOP-Micro-001)

Analysis Date/Time: 10/24/2025 1502 **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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