

SUMMARY OF ANALYSIS (SAMPLE ID: SA42464)

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: M00065C13134967446 Production Run: 7112H20250925CAR-5	Sample Type: Primary Matrix: Flower Mass: 11g 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 (%)

10.3

Water Activity (aw)

0.428 @ 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	30.0	300
CBGA	1.43	14.3
Δ9-THC	0.178	1.78
TOTAL CBD	0.000	0.000
TOTAL THC	26.5	265
TOTAL CANNABINOIDS	31.9	319

Terpenes (Top 5)	(%)	ppm
β-Caryophyllene	0.511	5110
d-Limonene	0.350	3500
α-Humulene	0.212	2120
β-Myrcene	0.167	1670
β-Pinene	0.0571	571
TOTAL TERPENES	1.73	17300

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 1607 **Method:** HPLC/DAD **Moisture Content (%):** 10.3
Analyst: PW **Instrument:** Agilent 1100 **Water Activity (aw):** 0.428 @ 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	-	0.000	0.000
CBCA	ND	ND	0.136	0.318	-	0.000	0.000
CBD	ND	ND	0.310	0.723	-	0.000	0.000
CBDV	ND	ND	0.114	0.266	-	0.000	0.000
CBDVA	ND	ND	0.132	0.309	-	0.000	0.000
CBG	0.109	1.09	0.201	0.469	-	0.981	0.981
CBGA	1.43	14.3	0.285	0.336	-	12.8	12.8
CBL	ND	ND	0.232	0.542	-	0.000	0.000
CBN	ND	ND	0.107	0.249	-	0.000	0.000
CBNA	ND	ND	0.115	0.268	-	0.000	0.000
Δ9-THC	0.178	1.78	0.128	0.298	-	1.60	1.60
Δ8-THC	ND	ND	0.199	0.466	-	0.000	0.000
THCA	30.0	300	0.0693	0.162	-	269	269
THCV	ND	ND	0.166	0.388	-	0.000	0.000
THCVA	0.148	1.48	0.0531	0.124	-	1.33	1.33
TOTAL	31.9	319				286	286
TOTAL CBC	0.000	0.000				0.000	0.000
TOTAL CBD	0.000	0.000				0.000	0.000
TOTAL CBDV	0.000	0.000				0.000	0.000
TOTAL CBG	1.36	13.6				12.2	12.2
TOTAL CBN	0.000	0.000				0.000	0.000
TOTAL THC	26.5	265				238	238
TOTAL THCV	0.128	1.28				1.15	1.15



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 = (CBDV 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 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, ND - Not Detected (less than LOD)

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Cultivar (Strain) or Sample Description: Cadillac Rainbow			Date Completed: 10/27/2025

TERPENOID PROFILE

Analysis Date/Time: 10/25/2025 0118
Analyst: KF

Method: GC/MS
Instrument: Agilent 7890/5975

Deviations from SOP:
None

Terpene	Result (ppm)	Result (%)	Terpene	Result (ppm)	Result (%)
α-Bisabolol	263	0.0263	d-Limonene	3500	0.350
L-Borneol	ND	-	Linalool	540	0.0540
D-Borneol	93.6	0.00936	l-Menthone	ND	-
Camphene	130	0.0130	Menthol	98.6	0.00986
Camphor	ND	-	β-Myrcene	1670	0.167
δ-3-Carene	<LOQ	-	Nerol	93.5	0.00935
Carvacrol	ND	-	cis-Nerolidol	ND	-
Carvone	ND	-	trans-Nerolidol	173	0.0173
β-Caryophyllene	5110	0.511	Nootkatone	ND	-
Caryophyllene oxide	102	0.0102	cis-β-Ocimene	<LOQ	-
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	440	0.0440
o-Cymene	ND	-	β-Pinene	571	0.0571
m-Cymene	ND	-	Piperitone	ND	-
p-Cymene	ND	-	Pulegone	ND	-
Eucalyptol	ND	-	Sabinene	305	0.0305
trans-β-Farnesene	361	0.0361	Sabinene hydrate	<LOQ	-
Farnesol 1	110	0.0110	Safranal	ND	-
Farnesol 2	135	0.0135	Squalene	131	0.0131
Fenchone	<LOQ	-	Terpinen-4-ol	<LOQ	-
Fenchyl alcohol	520	0.0520	α-Terpinene	<LOQ	-
Geraniol	70.2	0.00702	γ-Terpinene	<LOQ	-
Geranyl acetate	83.0	0.00830	α-Terpineol	418	0.0418
Guaiol	ND	-	Terpinolene	<LOQ	-
α-Humulene	2120	0.212	α-Thujone	75.2	0.00752
Isoborneol	<LOQ	-	Thymol	68.8	0.00688
Isobornyl acetate	ND	-	Valencene	88.4	0.00884
d-Isomenthone	ND	-	d-Valerolactam	ND	-
Isopulegol	82.4	0.00824	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) 17300 (%) 1.73 **Reporting Limit (ppm): 48.1**

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Cultivar (Strain) or Sample Description: Cadillac Rainbow **Date Completed:** 10/27/2025

PESTICIDES PROFILE (SOP: SOP-PEST-001)

Analysis Date/Time: 10/24/2025 1716
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)	-	0.0480	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
Etoazole (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	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 1646 **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	58.7	92.9	200
Cadmium (Cd)	ND	58.7	92.9	200
Lead (Pb)	ND	58.7	92.9	500
Mercury (Hg)	ND	58.7	92.9	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

Bacteria/Microbe	Result (CFU/g)	Action Level (CFU/g)
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 (Green background)

RESULT > AL (Red background)

Reporting Limit (CFU/g)
1

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