

SUMMARY OF ANALYSIS (SAMPLE ID: SA39604)

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: OR11324 Lot Number: M00065C13134004294 Production Run: 3080H20241024CAR-1	Sample Type: Primary Matrix: Flower Mass: 23g Date Collected: 12/05/2024 Date Received: 12/05/2024
Cultivar (Strain) or Sample Description: Cadillac Rainbow			Date Completed: 12/09/2024

*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 (%)

11.7

Water Activity (aw)

0.336 @ 24.4°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	32.0	320
CBGA	1.74	17.4
Δ9-THC	0.189	1.89
TOTAL CBD	0.000	0.000
TOTAL THC	28.3	283
TOTAL CANNABINOIDS	34.3	343

Terpenes (Top 5)	(%)	µg/g
d-Limonene	1.22	12200
β-Caryophyllene	0.922	9220
β-Myrcene	0.731	7310
α-Humulene	0.375	3750
β-Pinene	0.277	2770
TOTAL TERPENES	4.02	40200

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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REPORT OF LABORATORY ANALYSIS

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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: 12/06/2024 1324 **Method:** HPLC/DAD **Moisture Content (%):** 11.7
Analyst: PW **Instrument:** Agilent 1100 **Water Activity (aw):** 0.336 @ 24.4°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	0.0441	0.103	-	0.000	0.000
CBCA	ND	ND	0.137	0.320	-	0.000	0.000
CBD	ND	ND	0.311	0.726	-	0.000	0.000
CBDV	ND	ND	0.115	0.267	-	0.000	0.000
CBDVA	ND	ND	0.133	0.311	-	0.000	0.000
CBG	0.121	1.21	0.202	0.472	-	1.07	1.07
CBGA	1.74	17.4	0.286	0.338	-	15.4	15.4
CBL	ND	ND	0.233	0.545	-	0.000	0.000
CBN	ND	ND	0.107	0.250	-	0.000	0.000
CBNA	ND	ND	0.116	0.270	-	0.000	0.000
CBT	ND	ND	0.168	0.391	-	0.000	0.000
Δ9-THC	0.189	1.89	0.128	0.299	-	1.67	1.67
Δ8-THC	ND	ND	0.200	0.468	-	0.000	0.000
THCA	32.0	320	0.0696	0.163	-	283	283
THCV	ND	ND	0.167	0.390	-	0.000	0.000
THCVA	0.182	1.82	0.0534	0.124	-	1.61	1.61
TOTAL	34.3	343				303	303
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	1.65	16.5				14.6	14.6
TOTAL CBN	0.000	0.000				0.000	0.000
TOTAL THC	28.3	283				250	250
TOTAL THCV	0.159	1.59				1.40	1.40



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.

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) + THCV

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: 12/09/2024

TERPENOID PROFILE

Analysis Date/Time: 12/07/2024 1959
Analyst: KF

Method: GC/MS
Instrument: Agilent 7890/5975

Deviations from SOP:
None

<u>Terpene</u>	<u>Result (µg/g)</u>	<u>Result (%)</u>	
α-Bisabolol	785	0.0785	█
Camphene	454	0.0454	█
δ-3-Carene	ND	-	
β-Caryophyllene	9220	0.922	█
Caryophyllene oxide	671	0.0671	█
p-Cymene	ND	-	
Eucalyptol	ND	-	
Geraniol	62.0	0.00620	█
Guaiol	ND	-	
α-Humulene	3750	0.375	█
Isopulegol	89.5	0.00895	█
d-Limonene	12200	1.22	█
Linalool	1200	0.120	█
β-Myrcene	7310	0.731	█
cis-Nerolidol	ND	-	
trans-Nerolidol	ND	-	
α-Ocimene	ND	-	
β-Ocimene	ND	-	
α-Pinene	1460	0.146	█
β-Pinene	2770	0.277	█
α-Terpinene	ND	-	
γ-Terpinene	ND	-	
Terpinolene	164	0.0164	█
TOTAL	40200	4.02	



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): 48.4

"-" Not detected above LOD.

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Cultivar (Strain) or Sample Description: Cadillac Rainbow **Date Completed:** 12/09/2024

PESTICIDES PROFILE (SOP: SOP-PEST-001)

Analysis Date/Time: 12/07/2024 1643
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)	-	0.0479	0.383	0.5	Kresoxim-methyl (143390-89-0)	-	0.0479	0.383	0.4
Acephate (30560-19-1)	-	0.0479	0.383	0.4	Malathion (121-75-5)	-	0.0479	0.383	0.2
Acetamiprid (135410-20-7)	-	0.0479	0.383	0.2	Metalaxyl (57837-19-1)	-	0.0479	0.383	0.2
Aldicarb (116-06-3)	-	0.0479	0.383	0.4	Methiocarb (2032-65-7)	-	0.0479	0.383	0.2
Azoxystrobin (131860-33-8)	-	0.0479	0.383	0.2	Methomyl (16752-77-5)	-	0.0479	0.383	0.4
Bifenazate (149877-41-8)	-	0.0479	0.383	0.2	Methyl parathion (298-0-0)	-	0.0479	0.383	0.2
Bifenthrin (82657-04-3)	-	0.0479	0.383	0.2	MGK 264 (113-48-4)	-	0.0479	0.383	0.2
Boscalid (188425-85-6)	-	0.0479	0.383	0.4	Myclobutanil (88671-89-0)	-	0.0479	0.383	0.2
Carbaryl (63-25-2)	-	0.0479	0.383	0.2	Naled (300-76-5)	-	0.0479	0.383	0.5
Carbofuran (1563-66-2)	-	0.0479	0.383	0.2	Oxamyl (23135-22-0)	-	0.0479	0.383	1
Chlorantraniliprole (800008-45-7)	-	0.0479	0.383	0.2	Pacllobutrazol (76738-62-0)	-	0.0479	0.383	0.4
Chlorfenapyr (122453-73-0)	-	0.0479	0.383	1	Permethrins (52645-53-1)	-	0.0479	0.383	0.2
Chlorpyrifos (2921-88-2)	-	0.0479	0.383	0.2	Phosmet (732-11-6)	-	0.0479	0.383	0.2
Clofentezine (74115-24-5)	-	0.0479	0.383	0.2	Piperonyl butoxide (51-03-6)	-	0.0479	0.383	2
Cyfluthrin (68359-37-5)	-	0.0479	0.383	1	Prallethrins (2331-36-9)	-	0.0479	0.383	0.2
Cypermethrin (52315-07-8)	-	0.0479	0.383	1	Propiconazole (60207-90-1)	-	0.0479	0.383	0.4
Daminozide (1596-84-5)	-	0.0479	0.383	1	Propoxur (114-26-1)	-	0.0479	0.383	0.2
DDVP (62-73-7)	-	0.0479	0.383	0.1	Pyrethrins (8003-34-7)	-	0.0479	0.383	1
Diazinon (333-41-5)	-	0.0479	0.383	0.2	Pyridaben (96489-71-3)	-	0.0479	0.383	0.2
Dimethoate (60-51-5)	-	0.0479	0.383	0.2	Spinosad (168316-95-8)	-	0.0479	0.383	0.2
Ethoprophos (13194-48-4)	-	0.0479	0.383	0.2	Spiromesifen (283594-90-1)	-	0.0479	0.383	0.2
Etofenprox (80844-07-1)	-	0.0479	0.383	0.4	Spirotetramat (203313-25-1)	-	0.0479	0.383	0.2
Etoxazole (153233-91-1)	-	0.0479	0.383	0.2	Spiroxamine (118134-30-8)	-	0.0479	0.383	0.4
Fenoxycarb (72490-01-8)	-	0.0479	0.383	0.2	Tebuconazole (80443-41-0)	-	0.0479	0.383	0.4
(E)-Fenpyroximate (134098-61-6)	-	0.0479	0.383	0.4	Thiacloprid (111988-49-9)	-	0.0479	0.383	0.2
Fipronil (120068-37-3)	-	0.0479	0.383	0.4	Thiamethoxam (153719-23-4)	-	0.0479	0.383	0.2
Fonicamid (158062-67-0)	-	0.0479	0.383	1	Trifloxystrobin (141517-21-7)	-	0.0479	0.383	0.2
Fludioxinil (131341-86-1)	-	0.0479	0.383	0.4					
Hexythiazox (78587-05-0)	-	0.0479	0.383	1					
Imazalil (35554-44-0)	-	0.0479	0.383	0.2					
Imidacloprid (138261-41-3)	-	0.0479	0.383	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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HEAVY METAL PROFILE (SOP: SOP-ICP-200.6)

Analysis Date/Time: 12/07/2024 1759 **Method:** ICP/MS **Deviations from SOP:** None
Analyst: KF **Instrument:** Agilent 7500ce

<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)	-	59.3	93.9	200
Cadmium (Cd)	-	59.3	93.9	200
Lead (Pb)	-	59.3	93.9	500
Mercury (Hg)	-	59.3	93.9	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

RESULT < AL
RESULT > AL

"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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MICROBIOLOGICAL PROFILE (SOP: SOP-Micro-001)

Analysis Date/Time: 12/06/2024 1233 **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

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