

SUMMARY OF ANALYSIS (SAMPLE ID: SA41034)

Testing Location:	Customer ID: 2161	Order ID: OR11586	Sample Type: Primary
Arkansas	River Valley Relief Cultivation	Lot Number:	Matrix: Flower
232 S. Broadview St.	5601 Old Greenwood Rd Suite C	M00065C13137700456	Mass: 23g
Greenbrier, AR 72058	Fort Smith, AR 72903	Production Run:	Date Collected: 05/08/2025
License: ADH 113	License: 00065C	3094H20250326RDV-3	Date Received: 05/08/2025
Cultivar (Strain) or Sample Description: Red Velvet			Date Completed: 05/12/2025

*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 (%)

13.6

Water Activity (aw)

0.442 @ 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	29.5	295
CBGA	1.24	12.4
Δ9-THC	1.03	10.3
TOTAL CBD	0.0372	0.372
TOTAL THC	27.0	270
TOTAL CANNABINOIDS	32.2	322

Terpenes (Top 5)	(%)	ppm
d-Limonene	0.711	7110
β-Caryophyllene	0.680	6800
Linalool	0.353	3530
α-Humulene	0.288	2880
β-Myrcene	0.268	2680
TOTAL TERPENES	2.84	28400

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



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

Analysis Date/Time: 05/09/2025 2215

Method: HPLC/DAD

Moisture Content (%): 13.6

Analyst: PW

Instrument: Agilent 1100

Water Activity (aw): 0.442 @ 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	0.0445	0.104	-	0.000	0.000
CBCA	ND	ND	0.138	0.322	-	0.000	0.000
CBD	ND	ND	0.314	0.733	-	0.000	0.000
CBDA	0.0424	0.424	0.116	0.270	-	0.366	0.366
CBDV	ND	ND	0.0504	0.117	-	0.000	0.000
CBDVA	ND	ND	0.134	0.313	-	0.000	0.000
CBG	0.113	1.13	0.204	0.476	-	0.975	0.975
CBGA	1.24	12.4	0.289	0.341	-	10.7	10.7
CBL	ND	ND	0.235	0.550	-	0.000	0.000
CBN	ND	ND	0.108	0.253	-	0.000	0.000
CBNA	ND	ND	0.117	0.272	-	0.000	0.000
Δ9-THC	1.03	10.3	0.130	0.302	-	8.93	8.93
Δ8-THC	ND	ND	0.202	0.472	-	0.000	0.000
THCA	29.5	295	0.0703	0.164	-	255	255
THCV	ND	ND	0.169	0.393	-	0.000	0.000
THCVA	0.197	1.97	0.0539	0.125	-	1.70	1.70
TOTAL	32.2	322			-	278	278
TOTAL CBC	0.000	0.000			-	0.000	0.000
TOTAL CBD	0.0372	0.372			-	0.321	0.321
TOTAL CBDV	0.000	0.000			-	0.000	0.000
TOTAL CBG	1.20	12.0			-	10.4	10.4
TOTAL CBN	0.000	0.000			-	0.000	0.000
TOTAL THC	27.0	270			-	233	233
TOTAL THCV	0.170	1.70			-	1.47	1.47



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 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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TERPENOID PROFILE

Analysis Date/Time: 05/11/2025 2044

Analyst: KF

Method: GC/MS

Instrument: Agilent 7890/5975

Deviations from SOP:

None

<u>Terpene</u>	<u>Result (ppm)</u>	<u>Result (%)</u>	
α-Bisabolol	1340	0.134	■
Camphene	202	0.0202	■
δ-3-Carene	ND	-	
β-Caryophyllene	6800	0.680	■
Caryophyllene oxide	61.5	0.00615	■
p-Cymene	<LOQ	-	
Eucalyptol	<LOQ	-	
Geraniol	ND	-	
Guaiol	ND	-	
α-Humulene	2880	0.288	■
Isopulegol	ND	-	
d-Limonene	7110	0.711	■
Linalool	3530	0.353	■
β-Myrcene	2680	0.268	■
cis-Nerolidol	ND	-	
trans-Nerolidol	1180	0.118	■
α-Ocimene	50.7	0.00507	■
β-Ocimene	280	0.0280	■
α-Pinene	793	0.0793	■
β-Pinene	1440	0.144	■
α-Terpinene	ND	-	
γ-Terpinene	ND	-	
Terpinolene	87.0	0.00870	■
TOTAL	28400	2.84	



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 (ppm): 48.8

"-" Not detected above LOD.

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PESTICIDES PROFILE (SOP: SOP-PEST-001)

Analysis Date/Time: 05/10/2025 2310

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)	-	0.0479	0.384	0.5	Kresoxim-methyl (143390-89-0)	-	0.0479	0.384	0.4
Acephate (30560-19-1)	-	0.0479	0.384	0.4	Malathion (121-75-5)	-	0.0479	0.384	0.2
Acetaminophen (57960-19-7)	-	0.0479	0.384	2	Metalaxyl (57837-19-1)	-	0.0479	0.384	0.2
Acetamiprid (135410-20-7)	-	0.0479	0.384	0.2	Methiocarb (2032-65-7)	-	0.0479	0.384	0.2
Aldicarb (116-06-3)	-	0.0479	0.384	0.4	Methomyl (16752-77-5)	-	0.0479	0.384	0.4
Azoxystrobin (131860-33-8)	-	0.0479	0.384	0.2	Methyl parathion (298-0-0)	-	0.0479	0.384	0.2
Bifenazate (149877-41-8)	-	0.0479	0.384	0.2	MGK 264 (113-48-4)	-	0.0479	0.384	0.2
Bifenthrin (82657-04-3)	-	0.0479	0.384	0.2	Myclobutanil (88671-89-0)	-	0.0479	0.384	0.2
Boscalid (188425-85-6)	-	0.0479	0.384	0.4	Naled (300-76-5)	-	0.0479	0.384	0.5
Carbaryl (63-25-2)	-	0.0479	0.384	0.2	Oxamyl (23135-22-0)	-	0.0479	0.384	1
Carbofuran (1563-66-2)	-	0.0479	0.384	0.2	Paclobutrazol (76738-62-0)	-	0.0479	0.384	0.4
Chlorantraniliprole (800008-45-7)	-	0.0479	0.384	0.2	Permethrins (52645-53-1)	-	0.0479	0.384	0.2
Chlorfenapyr (122453-73-0)	-	0.0479	0.384	1	Phosmet (732-11-6)	-	0.0479	0.384	0.2
Chlorpyrifos (2921-88-2)	-	0.0479	0.384	0.2	Piperonyl butoxide (51-03-6)	-	0.0479	0.384	2
Clofentezine (74115-24-5)	-	0.0479	0.384	0.2	Prallethrin (2331-36-9)	-	0.0479	0.384	0.2
Cyfluthrin (68359-37-5)	-	0.0479	0.384	1	Propiconazole (60207-90-1)	-	0.0479	0.384	0.4
Cypermethrin (52315-07-8)	-	0.0479	0.384	1	Propoxur (114-26-1)	-	0.0479	0.384	0.2
Daminozide (1596-84-5)	-	0.0479	0.384	1	Pyrethrins (8003-34-7)	-	0.0479	0.384	1
DDVP (62-73-7)	-	0.0479	0.384	0.1	Pyridaben (96489-71-3)	-	0.0479	0.384	0.2
Diazinon (333-41-5)	-	0.0479	0.384	0.2	Spinosad (168316-95-8)	-	0.0479	0.384	0.2
Dimethoate (60-51-5)	-	0.0479	0.384	0.2	Spiromesifen (283594-90-1)	-	0.0479	0.384	0.2
Ethoprophos (13194-48-4)	-	0.0479	0.384	0.2	Spirotetramat (203313-25-1)	-	0.0479	0.384	0.2
Etofenprox (80844-07-1)	-	0.0479	0.384	0.4	Spiroxamine (118134-30-8)	-	0.0479	0.384	0.4
Etoxazole (153233-91-1)	-	0.0479	0.384	0.2	Tebuconazole (80443-41-0)	-	0.0479	0.384	0.4
Fenoxycarb (72490-01-8)	-	0.0479	0.384	0.2	Thiacloprid (111988-49-9)	-	0.0479	0.384	0.2
(E)-Fenpyroximate (134098-61-6)	-	0.0479	0.384	0.4	Thiamethoxam (153719-23-4)	-	0.0479	0.384	0.2
Fipronil (120068-37-3)	-	0.0479	0.384	0.4	Trifloxystrobin (141517-21-7)	-	0.0479	0.384	0.2
Flonicamid (158062-67-0)	-	0.0479	0.384	1					
Fludioxinil (131341-86-1)	-	0.0479	0.384	0.4					
Hexythiazox (78587-05-0)	-	0.0479	0.384	1					
Imazalil (35554-44-0)	-	0.0479	0.384	0.2					
Imidacloprid (138261-41-3)	-	0.0479	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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HEAVY METAL PROFILE (SOP: SOP-ICP-200.6)

Analysis Date/Time: 05/09/2025 2125

Method: ICP/MS

Deviations from SOP:

Instrument: Agilent 7700x

None

Analyst: KF

Heavy Metal	Result (ppb)	LOD (ppb)	LOQ (ppb)	Action Level (ppb)
Arsenic (As)	ND	56.6	89.7	200
Cadmium (Cd)	ND	56.6	89.7	200
Lead (Pb)	ND	56.6	89.7	500
Mercury (Hg)	ND	56.6	89.7	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: 05/12/2025 0519	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	Present	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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