

SUMMARY OF ANALYSIS (SAMPLE ID: SA39623)

Testing Location:	Customer ID: 2161	Order ID: OR11331	Sample Type: Primary
Arkansas	River Valley Relief Cultivation	Lot Number:	Matrix: Flower
232 S. Broadview St.	5601 Old Greenwood Rd Suite C	M00065C13132584664	Mass: 18g
Greenbrier, AR 72058	Fort Smith, AR 72903	Production Run:	Date Collected: 12/09/2024
License: ADH 113	License: 00065C	4081H20241105RDV-4	Date Received: 12/09/2024
Cultivar (Strain) or Sample Description: Red Velvet			Date Completed: 12/11/2024

*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 (%)

11.5

Water Activity (aw)

0.389 @ 24.2°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	31.0	310
CBGA	1.40	14.0
Δ9-THC	0.809	8.09
TOTAL CBD	0.000	0.000
TOTAL THC	27.9	279
TOTAL CANNABINOIDS	33.8	338

Terpenes (Top 5)	(%)	µg/g
d-Limonene	0.898	8980
Linalool	0.452	4520
α-Humulene	0.408	4080
β-Myrcene	0.240	2400
β-Pinene	0.234	2340
TOTAL TERPENES	2.61	26100

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

Sample Picture Upon Receipt



Scan the QR code to verify results.

This information is provided as a service and makes no claims of efficacy and/or safety of this product.

Results are applicable only for the sample(s) analyzed and for the specific analysis conducted.

This report is for informational purposes only and should not be used to diagnose, treat, or prevent any medical-related symptoms.

The statements and results herein have not been approved and/or endorsed by the FDA.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full, without the written consent of
Felling Analytical Services and Technology (F.A.S.T.), LLC

www.FASTLaboratories.com

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



CERTIFICATE OF ANALYSIS (SAMPLE ID: SA39623)

Testing Location:	Customer ID: 2161	Order ID: OR11331	Sample Type: Primary
Arkansas	River Valley Relief Cultivation	Lot Number:	Matrix: Flower
232 S. Broadview St.	5601 Old Greenwood Rd Suite C	M00065C13132584664	Mass: 18g
Greenbrier, AR 72058	Fort Smith, AR 72903	Production Run:	Date Collected: 12/09/2024
License: ADH 113	License: 00065C	4081H20241105RDV-4	Date Received: 12/09/2024
Cultivar (Strain) or Sample Description: Red Velvet			Date Completed: 12/11/2024

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

Analysis Date/Time: 12/10/2024 1322

Method: HPLC/DAD

Moisture Content (%): 11.5

Analyst: PW

Instrument: Agilent 1100

Water Activity (aw): 0.389 @ 24.2°C

Cannabinoid	Result (%)	Result (mg/g)	LOD (mg/g)	LOQ (mg/g)	Result (mg/mL)	Per Serving (mg)	Per Unit (mg)
CBC	ND	ND	0.0418	0.0975	-	0.000	0.000
CBCA	ND	ND	0.130	0.303	-	0.000	0.000
CBD	ND	ND	0.295	0.688	-	0.000	0.000
CBDA	ND	ND	0.109	0.253	-	0.000	0.000
CBDV	ND	ND	0.0473	0.110	-	0.000	0.000
CBDVA	ND	ND	0.126	0.294	-	0.000	0.000
CBG	0.158	1.58	0.191	0.447	-	1.40	1.40
CBGA	1.40	14.0	0.271	0.320	-	12.4	12.4
CBL	ND	ND	0.221	0.516	-	0.000	0.000
CBN	ND	ND	0.102	0.237	-	0.000	0.000
CBNA	ND	ND	0.110	0.256	-	0.000	0.000
CBT	0.247	2.47	0.159	0.371	-	2.19	2.19
Δ9-THC	0.809	8.09	0.122	0.284	-	7.16	7.16
Δ8-THC	ND	ND	0.190	0.443	-	0.000	0.000
THCA	31.0	310	0.0660	0.154	-	274	274
THCV	ND	ND	0.158	0.369	-	0.000	0.000
THCVA	0.219	2.19	0.0506	0.118	-	1.94	1.94
TOTAL	33.8	338			-	299	299
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	1.39	13.9			-	12.3	12.3
TOTAL CBN	0.000	0.000			-	0.000	0.000
TOTAL THC	27.9	279			-	247	247
TOTAL THCV	0.190	1.90			-	1.68	1.68



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 = (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)

This information is provided as a service and makes no claims of efficacy and/or safety of this product.
Results are applicable only for the sample(s) analyzed and for the specific analysis conducted.
This report is for informational purposes only and should not be used to diagnose, treat, or prevent any medical-related symptoms.

The statements and results herein have not been approved and/or endorsed by the FDA.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full, without the written consent of
Felling Analytical Services and Technology (F.A.S.T.), LLC

www.FASTLaboratories.com

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



CERTIFICATE OF ANALYSIS (SAMPLE ID: SA39623)

Testing Location:	Customer ID: 2161	Order ID: OR11331	Sample Type: Primary
Arkansas	River Valley Relief Cultivation	Lot Number:	Matrix: Flower
232 S. Broadview St.	5601 Old Greenwood Rd Suite C	M00065C13132584664	Mass: 18g
Greenbrier, AR 72058	Fort Smith, AR 72903	Production Run:	Date Collected: 12/09/2024
License: ADH 113	License: 00065C	4081H20241105RDV-4	Date Received: 12/09/2024
Cultivar (Strain) or Sample Description: Red Velvet			Date Completed: 12/11/2024

TERPENOID PROFILE

Analysis Date/Time: 12/10/2024 1848
Analyst: KF

Method: GC/MS
Instrument: Agilent 7890/5975

Deviations from SOP:
None

Terpene	Result (µg/g)	Result (%)	
α-Bisabolol	ND	-	
Camphene	407	0.0407	
δ-3-Carene	ND	-	
β-Caryophyllene	524	0.0524	
Caryophyllene oxide	ND	-	
p-Cymene	ND	-	
Eucalyptol	ND	-	
Geraniol	ND	-	
Guaiol	ND	-	
α-Humulene	4080	0.408	
Isopulegol	ND	-	
d-Limonene	8980	0.898	
Linalool	4520	0.452	
β-Myrcene	2400	0.240	
cis-Nerolidol	609	0.0609	
trans-Nerolidol	ND	-	
α-Ocimene	ND	-	
β-Ocimene	471	0.0471	
α-Pinene	1430	0.143	
β-Pinene	2340	0.234	
α-Terpinene	ND	-	
γ-Terpinene	ND	-	
Terpinolene	314	0.0314	
TOTAL	26100	2.61	



Abbreviations: GC - Gas Chromatography, MS - Mass Spectrometry, RL - Reporting Limit
Abbreviations: ND - Not Detected, LOD - Limit of Detection, LOQ - Limit of Quantitation

This information is provided as a service and makes no claims of efficacy and/or safety of this product.

Results are applicable only for the sample(s) analyzed and for the specific analysis conducted.

This report is for informational purposes only and should not be used to diagnose, treat, or prevent any medical-related symptoms.

The statements and results herein have not been approved and/or endorsed by the FDA.

Reporting Limit (µg/g): 45.8

"-" Not detected above LOD.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full, without the written consent of Felling Analytical Services and Technology (F.A.S.T.), LLC

www.FASTLaboratories.com

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



CERTIFICATE OF ANALYSIS (SAMPLE ID: SA39623)

Testing Location:	Customer ID: 2161	Order ID: OR11331	Sample Type: Primary
Arkansas	River Valley Relief Cultivation	Lot Number:	Matrix: Flower
232 S. Broadview St.	5601 Old Greenwood Rd Suite C	M00065C13132584664	Mass: 18g
Greenbrier, AR 72058	Fort Smith, AR 72903	Production Run:	Date Collected: 12/09/2024
License: ADH 113	License: 00065C	4081H20241105RDV-4	Date Received: 12/09/2024
Cultivar (Strain) or Sample Description: Red Velvet			Date Completed: 12/11/2024

PESTICIDES PROFILE (SOP: SOP-PEST-001)

Analysis Date/Time: 12/10/2024 1412

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)	-	0.0456	0.365	0.5	Kresoxim-methyl (143390-89-0)	-	0.0456	0.365	0.4
Acephate (30560-19-1)	-	0.0456	0.365	0.4	Malathion (121-75-5)	-	0.0456	0.365	0.2
Acetaminocyl (57960-19-7)	-	0.0456	0.365	2	Metalaxyl (57837-19-1)	-	0.0456	0.365	0.2
Acetamiprid (135410-20-7)	-	0.0456	0.365	0.2	Methiocarb (2032-65-7)	-	0.0456	0.365	0.2
Aldicarb (116-06-3)	-	0.0456	0.365	0.4	Methomyl (16752-77-5)	-	0.0456	0.365	0.4
Azoxystrobin (131860-33-8)	-	0.0456	0.365	0.2	Methyl parathion (298-0-0)	-	0.0456	0.365	0.2
Bifenazate (149877-41-8)	-	0.0456	0.365	0.2	MGK 264 (113-48-4)	-	0.0456	0.365	0.2
Bifenthrin (82657-04-3)	-	0.0456	0.365	0.2	Myclobutanil (88671-89-0)	-	0.0456	0.365	0.2
Boscalid (188425-85-6)	-	0.0456	0.365	0.4	Naled (300-76-5)	-	0.0456	0.365	0.5
Carbaryl (63-25-2)	-	0.0456	0.365	0.2	Oxamyl (23135-22-0)	-	0.0456	0.365	1
Carbofuran (1563-66-2)	-	0.0456	0.365	0.2	Paclobutrazol (76738-62-0)	-	0.0456	0.365	0.4
Chlorantraniliprole (800008-45-7)	-	0.0456	0.365	0.2	Permethrins (52645-53-1)	-	0.0456	0.365	0.2
Chlorfenapyr (122453-73-0)	-	0.0456	0.365	1	Phosmet (732-11-6)	-	0.0456	0.365	0.2
Chlorpyrifos (2921-88-2)	-	0.0456	0.365	0.2	Piperonyl butoxide (51-03-6)	-	0.0456	0.365	2
Clofentezine (74115-24-5)	-	0.0456	0.365	0.2	Prallethrin (2331-36-9)	-	0.0456	0.365	0.2
Cyfluthrin (68359-37-5)	-	0.0456	0.365	1	Propiconazole (60207-90-1))	-	0.0456	0.365	0.4
Cypermethrin (52315-07-8)	-	0.0456	0.365	1	Propoxur (114-26-1)	-	0.0456	0.365	0.2
Daminozide (1596-84-5)	-	0.0456	0.365	1	Pyrethrins (8003-34-7)	-	0.0456	0.365	1
DDVP (62-73-7)	-	0.0456	0.365	0.1	Pyridaben (96489-71-3)	-	0.0456	0.365	0.2
Diazinon (333-41-5)	-	0.0456	0.365	0.2	Spinosad (168316-95-8)	-	0.0456	0.365	0.2
Dimethoate (60-51-5)	-	0.0456	0.365	0.2	Spiromesifen (283594-90-1)	-	0.0456	0.365	0.2
Ethoprophos (13194-48-4)	-	0.0456	0.365	0.2	Spirotetramat (203313-25-1)	-	0.0456	0.365	0.2
Etofenprox (80844-07-1)	-	0.0456	0.365	0.4	Spiroxamine (118134-30-8)	-	0.0456	0.365	0.4
Etoazazole (153233-91-1)	-	0.0456	0.365	0.2	Tebuconazole (80443-41-0)	-	0.0456	0.365	0.4
Fenoxycarb (72490-01-8)	-	0.0456	0.365	0.2	Thiacloprid (111988-49-9)	-	0.0456	0.365	0.2
(E)-Fenpyroximate (134098-61-6)	-	0.0456	0.365	0.4	Thiamethoxam (153719-23-4)	-	0.0456	0.365	0.2
Fipronil (120068-37-3)	-	0.0456	0.365	0.4	Trifloxystrobin (141517-21-7)	-	0.0456	0.365	0.2
Flonicamid (158062-67-0)	-	0.0456	0.365	1					
Fludioxinil (131341-86-1)	-	0.0456	0.365	0.4					
Hexythiazox (78587-05-0)	-	0.0456	0.365	1					
Imazalil (35554-44-0)	-	0.0456	0.365	0.2					
Imidacloprid (138261-41-3)	-	0.0456	0.365	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.

Disclaimer: This information is
provided as a service and makes
no claims of efficacy and/or safety
of this product. Results are
applicable only for the sample(s)
analyzed and for the specific
analysis conducted. This report is
for informational purposes only
and should not be used to
diagnose, treat, or prevent any
medical-related symptoms. The
statements and results herein have
not been approved and/or
endorsed by the FDA.

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		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full, without the written consent of
Felling Analytical Services and Technology (F.A.S.T.), LLC

www.FASTLaboratories.com



CERTIFICATE OF ANALYSIS (SAMPLE ID: SA39623)

Testing Location:	Customer ID: 2161	Order ID: OR11331	Sample Type: Primary
Arkansas	River Valley Relief Cultivation	Lot Number:	Matrix: Flower
232 S. Broadview St.	5601 Old Greenwood Rd Suite C	M00065C13132584664	Mass: 18g
Greenbrier, AR 72058	Fort Smith, AR 72903	Production Run:	Date Collected: 12/09/2024
License: ADH 113	License: 00065C	4081H20241105RDV-4	Date Received: 12/09/2024
Cultivar (Strain) or Sample Description: Red Velvet			Date Completed: 12/11/2024

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

Analysis Date/Time: 12/10/2024 1721	Method: ICP/MS	Deviations from SOP:
	Instrument: Agilent 7500ce	None
Analyst: KF		

Heavy Metal	Result (µg/kg)	LOD (µg/kg)	LOQ (µg/kg)	Action Level (µg/kg)
Arsenic (As)	-	59.5	94.2	200
Cadmium (Cd)	-	59.5	94.2	200
Lead (Pb)	-	59.5	94.2	500
Mercury (Hg)	-	59.5	94.2	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.

Disclaimer: This information is provided as a service and makes no claims of efficacy and/or safety of this product. Results are applicable only for the sample(s) analyzed and for the specific analysis conducted. This report is for informational purposes only and should not be used to diagnose, treat, or prevent any medical-related symptoms. The statements and results herein have not been approved and/or endorsed by the FDA.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full, without the written consent of
Felling Analytical Services and Technology (F.A.S.T.), LLC

www.FASTLaboratories.com

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



CERTIFICATE OF ANALYSIS (SAMPLE ID: SA39623)

Testing Location:	Customer ID: 2161	Sample ID: SA39623	Sample Type: Primary
Arkansas	River Valley Relief Cultivation	Lot Number:	Matrix: Flower
232 S. Broadview St.	5601 Old Greenwood Rd Suite C	M00065C13132584664	Mass: 18g
Greenbrier, AR 72058	Fort Smith, AR 72903	Production Run:	Date Collected: 12/09/2024
License: ADA 05_H273	License: 00065C	4081H20241105RDV-4	Date Received: 12/09/2024
Cultivar (Strain) or Sample Description: Red Velvet			Date Completed: 12/11/2024

MICROBIOLOGICAL PROFILE (SOP: SOP-Micro-001)

Analysis Date/Time: 12/10/2024 1110	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

RESULT > AL

Reporting Limit (CFU/g)

1

Action levels for microbiology 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.

Disclaimer: This information is provided as a service and makes no claims of efficacy and/or safety of this product. Results are applicable only for the sample(s) analyzed and for the specific analysis conducted. This report is for informational purposes only and should not be used to diagnose, treat, or prevent any medical-related symptoms. The statements and results herein have not been approved and/or endorsed by the FDA.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full, without the written consent of
Felling Analytical Services and Technology (F.A.S.T.), LLC

www.FASTLaboratories.com

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

