

SUMMARY OF ANALYSIS (SAMPLE ID: SA35286)

Testing Location:	Customer ID: 2161	Order ID: OR10467	Sample Type: Primary
Arkansas	River Valley Relief Cultivation	Lot Number:	Matrix: Flower
232 S. Broadview St.	5601 Old Greenwood Rd Suite C	M00065C13132298138	Mass: 20g
Greenbrier, AR 72058	Fort Smith, AR 72903	Production Run:	Date Collected: 05/23/2023
License: ADH 113	License: 00065C	5033H20230424RFL-1	Date Received: 05/23/2023
Cultivar (Strain) or Sample Description: Race Fuel			Date Completed: 05/25/2023

*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 (%)

11.6

Water Activity (aw)

0.475 @ 24.6°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	31.2	312
CBGA	1.61	16.1
Δ9-THC	0.672	6.72
TOTAL CBD	-	-
TOTAL THC	28.0	280
TOTAL CANNABINOIDS	33.7	337

Terpenes (Top 5)	(%)	µg/g
d-Limonene	0.589	5890
β-Myrcene	0.341	3410
β-Ocimene	0.281	2810
Linalool	0.224	2240
β-Caryophyllene	0.118	1180
TOTAL TERPENES	1.92	19200

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: SA35286)

Testing Location:	Customer ID: 2161	Order ID: OR10467	Sample Type: Primary
Arkansas	River Valley Relief Cultivation	Lot Number:	Matrix: Flower
232 S. Broadview St.	5601 Old Greenwood Rd Suite C	M00065C13132298138	Mass: 20g
Greenbrier, AR 72058	Fort Smith, AR 72903	Production Run:	Date Collected: 05/23/2023
License: ADH 113	License: 00065C	5033H20230424RFL-1	Date Received: 05/23/2023
Cultivar (Strain) or Sample Description: Race Fuel			Date Completed: 05/25/2023

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

Analysis Date/Time: 05/23/2023 1621

Method: HPLC/DAD

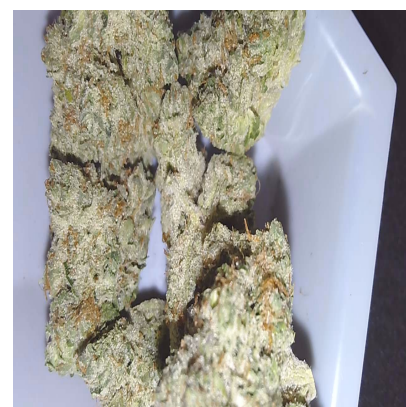
Moisture Content (%): 11.6

Analyst: PW

Instrument: Agilent 1100

Water Activity (aw): 0.475 @ 24.6°C

<u>Cannabinoid</u>	<u>Result</u> (%)	<u>Result</u> (mg/g)	<u>LOD</u> (mg/g)	<u>LOQ</u> (mg/g)	<u>Result</u> (mg/ mL)	<u>Per</u> <u>Serving</u> (mg)	<u>Per</u> <u>Unit</u> (mg)
CBC	ND	ND	0.0413	0.0964	-	-	-
CBCA	ND	ND	0.128	0.299	-	-	-
CBD	ND	ND	0.291	0.680	-	-	-
CBDA	<LOQ	<LOQ	0.107	0.250	-	-	-
CBDV	ND	ND	0.0468	0.109	-	-	-
CBDVA	ND	ND	0.125	0.291	-	-	-
CBG	0.0870	0.870	0.189	0.442	-	0.870	0.870
CBGA	1.61	16.1	0.268	0.316	-	16.1	16.1
CBL	ND	ND	0.219	0.510	-	-	-
CBN	ND	ND	0.100	0.235	-	-	-
CBNA	ND	ND	0.108	0.253	-	-	-
Δ9-THC	0.672	6.72	0.120	0.281	-	6.72	6.72
Δ8-THC	ND	ND	0.188	0.438	-	-	-
THCA	31.2	312	0.0652	0.153	-	312	312
THCV	ND	ND	0.157	0.365	-	-	-
THCVA	0.145	1.45	0.0500	0.116	-	1.45	1.45
TOTAL	33.7	337			-	337	337
TOTAL CBC	-	-			-	-	-
TOTAL CBD	-	-			-	-	-
TOTAL CBDV	-	-			-	-	-
TOTAL CBG	1.50	15.0			-	15.0	15.0
TOTAL CBN	-	-			-	-	-
TOTAL THC	28.0	280			-	280	280
TOTAL THC V	0.126	1.26			-	1.26	1.26



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

"-" Not detected above LOD.

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 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, UM - Measurement Uncertainty

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: SA35286)

Testing Location:	Customer ID: 2161	Order ID: OR10467	Sample Type: Primary
Arkansas	River Valley Relief Cultivation	Lot Number:	Matrix: Flower
232 S. Broadview St.	5601 Old Greenwood Rd Suite C	M00065C13132298138	Mass: 20g
Greenbrier, AR 72058	Fort Smith, AR 72903	Production Run:	Date Collected: 05/23/2023
License: ADH 113	License: 00065C	5033H20230424RFL-1	Date Received: 05/23/2023
Cultivar (Strain) or Sample Description: Race Fuel			Date Completed: 05/25/2023

TERPENOID PROFILE

Analysis Date/Time: 05/23/2023 2323

Analyst: KF

Method: GC/MS

Instrument: Agilent 7890/5975

Deviations from SOP:

None

Terpene	Result (µg/g)	Result (%)	
α-Bisabolol	39.2	0.00392	
Camphene	248	0.0248	
δ-3-Carene	14.2	0.00142	
β-Caryophyllene	1180	0.118	
Caryophyllene oxide	-	-	
p-Cymene	19.7	0.00197	
Eucalyptol	-	-	
Geraniol	-	-	
Guaiol	-	-	
α-Humulene	311	0.0311	
Isopulegol	-	-	
d-Limonene	5890	0.589	
Linalool	2240	0.224	
β-Myrcene	3410	0.341	
cis-Nerolidol	182	0.0182	
trans-Nerolidol	722	0.0722	
α-Ocimene	22.2	0.00222	
β-Ocimene	2810	0.281	
α-Pinene	877	0.0877	
β-Pinene	1170	0.117	
α-Terpinene	6.80	0.000680	
γ-Terpinene	5.77	0.000577	
Terpinolene	73.3	0.00733	
TOTAL	19200	1.92	



Abbreviations: GC - Gas Chromatography, MS - Mass Spectrometry, RL - Reporting Limit

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.

"-" Not detected above RL.

Reporting Limit (µg/g): 49.3

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: SA35286)

Testing Location:	Customer ID: 2161	Order ID: OR10467	Sample Type: Primary
Arkansas	River Valley Relief Cultivation	Lot Number:	Matrix: Flower
232 S. Broadview St.	5601 Old Greenwood Rd Suite C	M00065C13132298138	Mass: 20g
Greenbrier, AR 72058	Fort Smith, AR 72903	Production Run:	Date Collected: 05/23/2023
License: ADH 113	License: 00065C	5033H20230424RFL-1	Date Received: 05/23/2023
Cultivar (Strain) or Sample Description: Race Fuel			Date Completed: 05/25/2023

PESTICIDES PROFILE (SOP: SOP-PEST-001)

Analysis Date/Time: 05/24/2023 0931

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)	-	0.0452	0.362	0.5	Kresoxim-methyl (143390-89-0)	-	0.0452	0.362	0.4
Acephate (30560-19-1)	-	0.0452	0.362	0.4	Malathion (121-75-5)	-	0.0452	0.362	0.2
Acetaminophen (57960-19-7)	-	0.0452	0.362	2	Metalaxyl (57837-19-1)	-	0.0452	0.362	0.2
Acetamiprid (135410-20-7)	-	0.0452	0.362	0.2	Methiocarb (2032-65-7)	-	0.0452	0.362	0.2
Aldicarb (116-06-3)	-	0.0452	0.362	0.4	Methomyl (16752-77-5)	-	0.0452	0.362	0.4
Azoxystrobin (131860-33-8)	-	0.0452	0.362	0.2	Methyl parathion (298-0-0)	-	0.0452	0.362	0.2
Bifenazate (149877-41-8)	-	0.0452	0.362	0.2	MGK 264 (113-48-4)	-	0.0452	0.362	0.2
Bifenthrin (82657-04-3)	-	0.0452	0.362	0.2	Myclobutanil (88671-89-0)	-	0.0452	0.362	0.2
Boscalid (188425-85-6)	-	0.0452	0.362	0.4	Naled (300-76-5)	-	0.0452	0.362	0.5
Carbaryl (63-25-2)	-	0.0452	0.362	0.2	Oxamyl (23135-22-0)	-	0.0452	0.362	1
Carbofuran (1563-66-2)	-	0.0452	0.362	0.2	Paclobutrazol (76738-62-0)	-	0.0452	0.362	0.4
Chlorantraniliprole (800008-45-7)	-	0.0452	0.362	0.2	Permethrins (52645-53-1)	-	0.0452	0.362	0.2
Chlorfenapyr (122453-73-0)	-	0.0452	0.362	1	Phosmet (732-11-6)	-	0.0452	0.362	0.2
Chlorpyrifos (2921-88-2)	-	0.0452	0.362	0.2	Piperonyl butoxide (51-03-6)	-	0.0452	0.362	2
Clofentezine (74115-24-5)	-	0.0452	0.362	0.2	Prallethrin (2331-36-9)	-	0.0452	0.362	0.2
Cyfluthrin (68359-37-5)	-	0.0452	0.362	1	Propiconazole (60207-90-1))	-	0.0452	0.362	0.4
Cypermethrin (52315-07-8)	-	0.0452	0.362	1	Propoxur (114-26-1)	-	0.0452	0.362	0.2
Daminozide (1596-84-5)	-	0.0452	0.362	1	Pyrethrins (8003-34-7)	-	0.0452	0.362	1
DDVP (62-73-7)	-	0.0452	0.362	0.1	Pyridaben (96489-71-3)	-	0.0452	0.362	0.2
Diazinon (333-41-5)	-	0.0452	0.362	0.2	Spinosad (168316-95-8)	-	0.0452	0.362	0.2
Dimethoate (60-51-5)	-	0.0452	0.362	0.2	Spiromesifen (283594-90-1)	-	0.0452	0.362	0.2
Ethoprophos (13194-48-4)	-	0.0452	0.362	0.2	Spirotetramat (203313-25-1)	-	0.0452	0.362	0.2
Etofenprox (80844-07-1)	-	0.0452	0.362	0.4	Spiroxamine (118134-30-8)	-	0.0452	0.362	0.4
Etoazole (153233-91-1)	-	0.0452	0.362	0.2	Tebuconazole (80443-41-0)	-	0.0452	0.362	0.4
Fenoxycarb (72490-01-8)	-	0.0452	0.362	0.2	Thiacloprid (111988-49-9)	-	0.0452	0.362	0.2
(E)-Fenpyroximate (134098-61-6)	-	0.0452	0.362	0.4	Thiamethoxam (153719-23-4)	-	0.0452	0.362	0.2
Fipronil (120068-37-3)	-	0.0452	0.362	0.4	Trifloxystrobin (141517-21-7)	-	0.0452	0.362	0.2
Flonicamid (158062-67-0)	-	0.0452	0.362	1					
Fludioxinil (131341-86-1)	-	0.0452	0.362	0.4					
Hexythiazox (78587-05-0)	-	0.0452	0.362	1					
Imazalil (35554-44-0)	-	0.0452	0.362	0.2					
Imidacloprid (138261-41-3)	-	0.0452	0.362	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: SA35286)

Testing Location:	Customer ID: 2161	Order ID: OR10467	Sample Type: Primary
Arkansas	River Valley Relief Cultivation	Lot Number:	Matrix: Flower
232 S. Broadview St.	5601 Old Greenwood Rd Suite C	M00065C13132298138	Mass: 20g
Greenbrier, AR 72058	Fort Smith, AR 72903	Production Run:	Date Collected: 05/23/2023
License: ADH 113	License: 00065C	5033H20230424RFL-1	Date Received: 05/23/2023
Cultivar (Strain) or Sample Description: Race Fuel			Date Completed: 05/25/2023

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

Analysis Date/Time: 05/23/2023 1653 (ICP/OES)	Method: ICP/MS	Deviations from SOP:
Analysis Date/Time: - (DMA)	Instrument: Agilent 7500ce	None
Analyst: KF		

Heavy Metal	Result (µg/kg)	LOD (µg/kg)	LOQ (µg/kg)	Action Level (µg/kg)
Arsenic (As)	-	58.8	93.0	200
Cadmium (Cd)	-	58.8	93.0	200
Lead (Pb)	-	58.8	93.0	500
Mercury (Hg)	-	58.8	93.0	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: SA35286)

Testing Location:	Customer ID: 2161	Sample ID: SA35286	Sample Type: Primary
Arkansas	River Valley Relief Cultivation	Lot Number:	Matrix: Flower
232 S. Broadview St.	5601 Old Greenwood Rd Suite C	M00065C13132298138	Mass: 20g
Greenbrier, AR 72058	Fort Smith, AR 72903	Production Run:	Date Collected: 05/23/2023
License: ADA 05_H273	License: 00065C	5033H20230424RFL-1	Date Received: 05/23/2023
Cultivar (Strain) or Sample Description: Race Fuel			Date Completed: 05/25/2023

MICROBIOLOGICAL PROFILE (SOP: SOP-Micro-001)

Analysis Date/Time: 05/24/2023 1130
Analyst: PW
Method: Hardy Diagnostics CompactDry
Instrument: Thermo Incubator
Deviations from SOP: 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

