







SUMMARY OF ANALYSIS (SAMPLE ID: SA33587)

Testing Location:Customer ID: 2161Order ID: OR10200Sample Type: PrimaryArkansasRiver Valley Relief CultivationLot Number:Matrix: Flower

 232 S. Broadview St.
 5601 Old Greenwood Rd Suite C
 M00065C13135531111
 Mass: 23g

 Greenbrier, AR 72058
 Fort Smith, AR 72903
 Production Run:
 Date Collected: 11/30/2022

 License: ADH 113
 License: 00065C
 2016H20221104RFL6
 Date Received: 12/01/2022

Cultivar (Strain) or Sample Description: Race Fuel

Date Completed: 12/02/2022

*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 (%)
 Water Activity (aw)
 PASS/FAIL

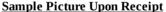
 11.8
 0.486 @ 23.7°C
 PASS

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.

<u>Cannabino</u>	ids (Top 3)	<u>(%)</u>	mg/g
ТН	CA	23.3	233
СВ	GA	1.35	13.5
Δ9-7	ГНС	0.381	3.81
TOTA	L CBD	0.0801	0.801
TOTA	LTHC	20.8	208
TOTAL CAN	NABINOIDS	25.9	259
<u>Terpene</u>	s (Top 5)	<u>(%)</u>	<u>µg/g</u>
β-Caryo	β-Caryophyllene		2570
d-Lim	d-Limonene		1510
β-Му	β-Myrcene		1300
Lina	Linalool		1210
α-Hun	α-Humulene		982
TOTAL T	TOTAL TERPENES		9740
Contaminants	PASS/FAII	Sample Dictur	e Unon Receipt

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







Scan the QR code to verify results.

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Cultivar (Strain) or Sample Description: Race Fuel







Sample Type: Primary

CERTIFICATE OF ANALYSIS (SAMPLE ID: SA33587)

Testing Location:Customer ID: 2161Order ID: OR10200ArkansasRiver Valley Relief CultivationLot Number:232 S. Broadview St.5601 Old Greenwood Rd Suite CM00065C13135531111

Greenbrier, AR 72058 Fort Smith, AR 72903 **Production Run:**License: ADH 113 License: 00065C 2016H20221104RFL6

Lot Number:Matrix: FlowerM00065C13135531111Mass: 23gProduction Run:Date Collected: 11/30/2022

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

Analysis Date/Time: 12/1/2022 1912 Method: HPLC/DAD Moisture Content (%): 11.8

Analyst: PW Instrument: Agilent 1100 Water Activity (aw): 0.486 @ 23.72°C

<u>Cannabinoid</u>	Result (%)	<u>UM</u> (+/-%)	Result (mg/g)	LOQ (mg/g)	Result (mg/ mL)	Per Serving (mg)	Per Unit (mg)
CBC	-	-	-	0.228	-	-	-
CBCA	0.209	0.0188	2.09	0.228	-	2.09	2.09
CBD	-	-	-	0.228	-	-	-
CBDA	0.0914	0.00822	0.914	0.228	-	0.914	0.914
CBDV	-	-	-	0.228	-	-	-
CBDVA	-	-	-	0.228	-	-	-
CBG	0.157	0.0141	1.57	0.228	-	1.57	1.57
CBGA	1.35	0.121	13.5	0.228	-	13.5	13.5
CBL	0.149	0.0134	1.49	0.228	-	1.49	1.49
CBN	-	-	-	0.228	-	-	-
CBNA	0.119	0.0107	1.19	0.228	-	1.19	1.19
Δ9-ΤΗС	0.381	0.0343	3.81	0.228	-	3.81	3.81
Δ8-ΤΗС	-	-	-	0.228	-	-	-
THCA	23.3	2.10	233	0.228	-	233	233
THCV	-	-	-	0.228	-	-	-
THCVA	0.150	0.0135	1.50	0.228	-	1.50	1.50
TOTAL	25.9	2.33	259		-	259	259
TOTAL CBC	0.183	0.0165	1.83		-	1.83	1.83
TOTAL CBD	0.0801	0.00721	0.801		-	0.801	0.801
TOTAL CBDV	-	-	-		-	-	-
TOTAL CBG	1.34	0.121	13.4		-	13.4	13.4
TOTAL CBN	0.104	0.00939	1.04		-	1.04	1.04
TOTAL THC	20.8	1.87	208		-	208	208
TOTAL THCV	0.130	0.0117	1.30		-	1.30	1.30

^{*} CBCA, CBDVA, CBL, CBNA, and THCVA are in process of being added to our accreditation scope.

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

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

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) + Δ 9-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.





[&]quot;-" Not detected above LOD.









CERTIFICATE OF ANALYSIS (SAMPLE ID: SA33587)

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

Result

<u>(%)</u>

0.0746

0.00760

0.257

0.0101

0.00820

0.0982

0.151

0.121

0.130

0.0497

0.00271

0.00734

0.0158

0.0292

0.0112

0.974

License: 00065C

Order ID: OR10200 Lot Number: M00065C13135531111

Production Run: 2016H20221104RFL6 Sample Type: Primary

Matrix: Flower **Mass:** 23g

Date Collected: 11/30/2022 **Date Received:** 12/01/2022

Date Completed: 12/02/2022

TERPENOID PROFILE

Analysis Date/Time:12/02/2022 0033

Result

 $(\mu g/g)$

746

76.0

2570

101

82.0

982

1510

1210

1300

497

27.1

73.4

158

292

112

9740

Cultivar (Strain) or Sample Description: Race Fuel

Analyst: KF

Terpene

α-Bisabolol

Camphene

δ-3-Carene β-Caryophyllene

oxide p-Cymene Eucalyptol Geraniol

Guaiol

α-Humulene

Isopulegol

Linalool

β-Myrcene

cis-Nerolidol

α-Ocimene

β-Ocimene

α-Pinene

B-Pinene

TOTAL

α-Terpinene y-Terpinene Terpinolene

trans-Nerolidol

d-Limonene

Caryophyllene

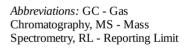
Method: GC/MS

Instrument: Agilent 7890/5975

Deviations from SOP:

None





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"-" Not detected above RL

Reporting Limit (µg/g): 19.1





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12/02/2022









CERTIFICATE OF ANALYSIS (SAMPLE ID: SA33587)

Testing Location:

Arkansas 232 S. Broadview St. Greenbrier, AR 72058

License: ADH 113

Pesticide

Customer ID: 2161

River Valley Relief Cultivation 5601 Old Greenwood Rd Suite C

Action

Pesticide

Fort Smith, AR 72903

License: 00065C

Order ID: OR10200

Lot Number:

M00065C13135531111

Production Run: 2016H20221104RFL6

Sample Type: Primary

Matrix: Flower

Mass: 23g

Date Collected: 11/30/2022 **Date Received:** 12/01/2022

Date Completed: 12/02/2022

PESTICIDES PROFILE (SOP: SOP-PEST-001)

Analysis Date/Time: 12/01/2022 2047

Cultivar (Strain) or Sample Description: Race Fuel

Analyst: KF

Method: LC/MS/MS

Instrument: Shimadzu LC-8050

Deviations from SOP:

None

Action

Pesticide	<u>Result</u> (μg/g)	LOD (µg/g)	LOQ (µg/g)	Action Level (µg/g)	<u>Pesticide</u>	<u>Result</u> (μg/g)	<u>LOD</u> (μg/g)	LOQ (µg/g)	<u>Action</u> <u>Level</u> (µg/g)	
Abamectin (71751-41-2)	-	0.0191	0.152	0.5	Kresoxim-methyl	_	0.0191	0.152	0.4	
Acephate (30560-19-1)	-	0.0191	0.152	0.4	(143390-89-0)					
Acequinocyl (57960-19-7)	-	0.0191	0.152	2	Malathion (121-75-5)	-	0.0191	0.152	0.2	
Acetamiprid (135410-20-7)	-	0.0191	0.152	0.2	Metalaxyl (57837-19-1) Methiocarb (2032-65-7)	-	0.0191 0.0191	0.152 0.152	0.2 0.2	
Aldicarb (116-06-3)	-	0.0191	0.152	0.4	Methomyl (16752-77-5)	-	0.0191	0.152	0.4	
Azoxystrobin (131860-33-8)	-	0.0191	0.152	0.2	Methyl parathion (298-0-0)	-	0.0191	0.152	0.2	
Bifenazate (149877-41-8)	-	0.0191	0.152	0.2	MGK 264 (113-48-4)	-	0.0191	0.152	0.2	
Bifenthrin (82657-04-3)	-	0.0191	0.152	0.2	Myclobutanil	_	0.0191	0.152	0.2	
Boscalid (188425-85-6)	-	0.0191	0.152	0.4	(88671-89-0)					
Carbaryl (63-25-2)	-	0.0191	0.152	0.2	Naled (300-76-5)	-	0.0191	0.152	0.5	
Carbofuran (1563-66-2)	-	0.0191	0.152	0.2	Oxamyl (23135-22-0)	-	0.0191	0.152	1	
Chlorantraniliprole (800008-45-7)	-	0.0191	0.152	0.2	Paclobutrazol (76738-62-0)	-	0.0191	0.152	0.4	
Chlorfenapyr		0.0191	0.152	1	Permethrins (52645-53-1)	-	0.0191	0.152	0.2	
(122453-73-0)		0.0131	0.132		Phosmet (732-11-6)	-	0.0191	0.152	0.2	
Chlorpyrifos (2921-88-2)	-	0.0191	0.152	0.2	Piperonyl butoxide	_	0.0191	0.152	2	
Clofentezine (74115-24-5)	-	0.0191	0.152	0.2	(51-03-6)		0.0404	0.450	0.0	
Cyfluthrin (68359-37-5)	-	0.0191	0.152	1	Prallethrins (2331-36-9)	-	0.0191	0.152	0.2	
Cypermethrin (52315-07-8)	-	0.0191	0.152	1	Propiconazole (60207-90-1))	-	0.0191	0.152	0.4	
Daminozide (1596-84-5)	_	0.0191	0.152	1	Propoxur (114-26-1)	-	0.0191	0.152	0.2	
DDVP (62-73-7)	_	0.0191	0.152	0.1	Pyrethrins (8003-34-7)	-	0.0191	0.152	1	
Diazinon (333-41-5)	_	0.0191	0.152	0.2	Pyridaben (96489-71-3)	-	0.0191	0.152	0.2	
Dimethoate (60-51-5)	-	0.0191	0.152	0.2	Spinosad (168316-95-8)	-	0.0191	0.152	0.2	
Ethoprophos (13194-48-4)	-	0.0191	0.152	0.2	Spiromesifen (283594-90-1)		0.0191	0.152	0.2	
Etofenprov (80844-07-1)		0.0191	0.152	0.4	(203394-90-1)					



Color Key

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

0.0191

0.0191

0.0191

0.0191

0.0191

0.0191

0.152

0.152

0.152

0.152

0.152

0.152

0.2

0.4

0.4

0.2

0.2

0.2

<u>Pesticide</u>	Synonym(s)	<u>Pesticide</u>	Synonym(s)	<u>Pesticide</u>	Synonym(s)
Cyfluthrin	Baythroid	Myclobutanil	Systhane	Propiconazole	Tilt
DDVP	Dichlorvos	Naled	Dibrom	Propoxur	Baygon
Ethoprophos	Prophos	Phosmet	Imidan		



Etofenprox (80844-07-1)

Etoxazole (153233-91-1)

Fenoxycarb (72490-01-8)

Fipronil (120068-37-3)

Flonicamid (158062-67-0)

Fludioxinil (131341-86-1)

Hexythiazox (78587-05-0)

Imazalil (35554-44-0)

Imidacloprid

(138261-41-3)

(E)-Fenpyroximate (134098-61-6) 0.0191

0.0191

0.0191

0.0191

0.0191

0.0191

0.0191

0.0191

0.0191

0.0191

0.152

0.152

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0.152

0.152

0.152

0.152

0.152

0.152

0.152

0.4

0.2

0.2

0.4

0.4

1

0.4

1

0.2

0.4

Spirotetramat

Spiroxamine

Tebuconazole

(80443-41-0)

Thiacloprid (111988-49-9)

Thiamethoxam

(153719-23-4)

Trifloxystrobin

(141517-21-7)

(203313-25-1)









2016H20221104RFL6



Date Received: 12/01/2022

CERTIFICATE OF ANALYSIS (SAMPLE ID: SA33587)

Testing Location:Customer ID: 2161Order ID: OR10200Sample Type: PrimaryArkansasRiver Valley Relief CultivationLot Number:Matrix: Flower

232 S. Broadview St. 5601 Old Greenwood Rd Suite C M00065C13135531111 Mass: 23g
Greenbrier, AR 72058 Fort Smith, AR 72903 Production Run: Date Collected: 11/30/2022

Cultivar (Strain) or Sample Description: Race Fuel

Date Completed: 12/02/2022

HEAVY METAL PROFILE (SOP: SOP-ICP-200.7)

Analysis Date/Time: 12/02/2022 0552 (ICP/OES) Method: ICP/OES Deviations from SOP:

Analysis Date/Time: - (DMA) Instrument: Agilent 720-ES None

Analyst: KF

License: ADH 113

<u>Heavy Metal</u>	<u>Result</u> (μg/kg)	<u>LOD</u> (µg/kg)	LOQ (µg/kg)	<u>Action Level</u> (μg/kg)
Arsenic (As)	-	59.4	94.0	200
Cadmium (Cd)	-	59.4	94.0	200
Lead (Pb)	-	59.4	94.0	500
Mercury (Hg)	-	59.4	94.0	100

License: 00065C



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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License: ADA 05 H273





2016H20221104RFL6



Date Received: 12/01/2022

CERTIFICATE OF ANALYSIS (SAMPLE ID: SA33587)

Testing Location:Customer ID: 2161Sample ID: SA33587Sample Type: PrimaryArkansasRiver Valley Relief CultivationLot Number:Matrix: Flower

232 S. Broadview St. 5601 Old Greenwood Rd Suite C M00065C13135531111 Mass: 23g
Greenbrier, AR 72058 Fort Smith, AR 72903 Production Run: Date Collected: 11/30/2022

Cultivar (Strain) or Sample Description: Race Fuel

Date Completed: 12/02/2022

MICROBIOLOGICAL PROFILE (SOP: SOP-Micro-001)

Analysis Date/Time: 12/2/2022 0631 **Method:** Hardy Diagnostics CompactDry **Deviations from SOP:**

Analyst: PW Instrument: Thermo Incubator None

Bacteria/Microbe	<u>Result</u> (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	1
Salmonella spp.	NT	-
Staphylococcus aureus	NT	-

License: 00065C



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)

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