

License: ADH 113





2016H20221104RFL1



Date Received: 11/28/2022

SUMMARY OF ANALYSIS (SAMPLE ID: SA33538)

 Testing Location:
 Customer ID: 2161
 Order ID: OR10190
 Sample Type: Primary

 Arkansas
 River Valley Relief Cultivation
 Lot Number:
 Matrix: Flower

232 S. Broadview St. 5601 Old Greenwood Rd Suite C M00065C13138179486 **Mass:** 23.00g
Greenbrier, AR 72058 Fort Smith, AR 72903 **Production Run: Date Collected:** 11/23/2022

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/FAIL12.70.524 @ 24.4°CPASS

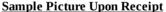
Moisture content/water activity action levels are referenced from the State of Arkansas MMJ testing guidelines.

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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)	<u>(%)</u>	mg/g
THCA	22.2	222
CBGA	1.23	12.3
Δ9-ТНС	1.07	10.7
TOTAL CBD	0.0744	0.744
TOTAL THC	20.6	206
TOTAL CANNABINOIDS	25.2	252
<u>Terpenes (Top 5)</u>	<u>(%)</u>	µg/g
β-Caryophyllene	0.241	2410
β-Caryophyllene d-Limonene	0.241 0.139	2410 1390
d-Limonene	0.139	1390
d-Limonene Linalool	0.139 0.116	1390 1160
d-Limonene Linalool β-Myrcene	0.139 0.116 0.0982	1390 1160 982

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







Scan the QR code to verify results.

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Order ID: OR10190 **Testing Location:** Customer ID: 2161 Sample Type: Primary River Valley Relief Cultivation Lot Number: Matrix: Flower Arkansas 232 S. Broadview St. 5601 Old Greenwood Rd Suite C M00065C13138179486 Mass: 23.00g

Greenbrier, AR 72058 Fort Smith, AR 72903 **Production Run: Date Collected:** 11/23/2022 2016H20221104RFL1 License: ADH 113 License: 00065C **Date Received:** 11/28/2022

Cultivar (Strain) or Sample Description: Race Fuel **Date Completed:** 12/02/2022

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

Analysis Date/Time: 11/29/2022 1728 Method: HPLC/DAD

Analyst: PW Instrument: Agilent 1100

<u>Cannabinoid</u>	Result (%)	<u>UM</u> (+/-%)	Result (mg/g)	LOQ (mg/g)	Result (mg/ mL)	Per Serving (mg)	Per Unit (mg)
CBC	-	-	-	0.232	-	-	-
CBCA	0.170	0.0153	1.70	0.232	-	1.70	1.70
CBD	-	-	-	0.232	-	-	-
CBDA	0.0848	0.00763	0.848	0.232	-	0.848	0.848
CBDV	-	-	-	0.232	-	-	-
CBDVA	-	-	-	0.232	-	-	-
CBG	0.128	0.0115	1.28	0.232	-	1.28	1.28
CBGA	1.23	0.111	12.3	0.232	-	12.3	12.3
CBL	0.123	0.0111	1.23	0.232	-	1.23	1.23
CBN	-	-	-	0.232	-	-	-
CBNA	0.0761	0.00685	0.761	0.232	-	0.761	0.761
Δ9-ΤΗС	1.07	0.0962	10.7	0.232	-	10.7	10.7
Δ8-ΤΗС	-	-	-	0.232	-	-	-
THCA	22.2	2.00	222	0.232	-	222	222
THCV	-	-	-	0.232	-	-	-
THCVA	0.142	0.0128	1.42	0.232		1.42	1.42
TOTAL	25.2	2.27	252		-	252	252
TOTAL CBC	0.149	0.0134	1.49		-	1.49	1.49
TOTAL CBD	0.0744	0.00669	0.744		-	0.744	0.744
TOTAL CBDV	-	-	-		-	-	-
TOTAL CBG	1.21	0.109	12.1		-	12.1	12.1
TOTAL CBN	0.0667	0.00600	0.667		-	0.667	0.667
TOTAL THC	20.6	1.85	206		-	206	206
TOTAL THCV	0.123	0.0111	1.23		-	1.23	1.23
* CBCA CBDVA C	BL CBNA	and THCVA	are in proce	ss of being added to	our accredi	tation scor	ne.

^{*} 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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Water Activity (aw): 0.524 @ 24.41°C



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 = $(CBCA \times 0.877) + CBC$ Total CBD = $(CBDA \times 0.877) + CBD$ Total CBDV = (CBDVA \times 0.867) + CBDV Total CBG = $(CBGA \times 0.878) + CBG$ Total CBN = $(CBNA \times 0.876) + CBN$ 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.





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









Testing Location:

Arkansas 232 S. Broadview St. Greenbrier, AR 72058

License: ADH 113

River Valley Relief Cultivation 5601 Old Greenwood Rd Suite C Fort Smith, AR 72903 License: 00065C

> Result <u>(%)</u>

0.0932

0.00806

0.241

0.0265

0.00804

0.0949

0.139

0.116

0.0982

0.0773

0.0171

0.0300

0.0134

0.963

Customer ID: 2161

Order ID: OR10190 Lot Number: M00065C13138179486 **Production Run:** 2016H20221104RFL1

Sample Type: Primary Matrix: Flower Mass: 23.00g **Date Collected:** 11/23/2022

Date Received: 11/28/2022

Date Completed: 12/02/2022

Cultivar (Strain) or Sample Description: Race Fuel

TERPENOID PROFILE

Analysis Date/Time:11/29/2022 2312 Method: GC/MS

Result

 $(\mu g/g)$ 932

80.6

2410

265

80.4

949

1390

1160

982

773

171

300

134

9630

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

Instrument: Agilent 7890/5975

Deviations from SOP:

None



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

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"-" Not detected above RL

Reporting Limit (µg/g): 19.6





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12/05/2022









Testing Location:

Arkansas 232 S. Broadview St.

Greenbrier, AR 72058 License: ADH 113

Analyst: KF

Customer ID: 2161

River Valley Relief Cultivation 5601 Old Greenwood Rd Suite C

Fort Smith, AR 72903

License: 00065C

Order ID: OR10190

Lot Number:

M00065C13138179486

Production Run: 2016H20221104RFL1 Sample Type: Primary

Matrix: Flower Mass: 23.00g

Date Collected: 11/23/2022 **Date Received:** 11/28/2022

Date Completed: 12/02/2022

PESTICIDES PROFILE (SOP: SOP-PEST-001)

Analysis Date/Time: 11/29/2022 2245

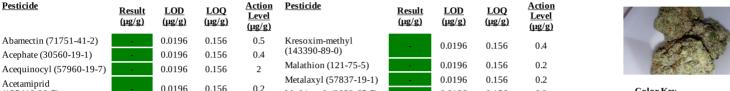
Cultivar (Strain) or Sample Description: Race Fuel

Method: LC/MS/MS

Instrument: Shimadzu LC-8050

Deviations from SOP:

None







Color Key

"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

0.0196

0.0196

0.156

0.156

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		

Thiamethoxam

(153719-23-4)

Trifloxystrobin

(141517-21-7)



Hexythiazox (78587-05-0)

Imazalil (35554-44-0)

Imidacloprid

(138261-41-3)

0.0196

0.0196

0.0196

0.156

0.156

0.156

1

0.2

0.4











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Cultivar (Strain) or Sample Description: Race Fuel Date Completed: 12/02/2022

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

Analysis Date/Time: 11/29/2022 1542 (ICP/OES) Method: ICP/OES Deviations from SOP:

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

Analyst: KF

<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)	-	57.2	90.5	200
Cadmium (Cd)	-	57.2	90.5	200
Lead (Pb)	-	57.2	90.5	500
Mercury (Hg)	-	57 . 2	90.5	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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 Mass: 23.00g

 Greenbrier, AR 72058
 Fort Smith, AR 72903
 Production Run:
 Date Collected: 11/23/2022

 License: ADA 05 H273
 License: 00065C
 2016H20221104RFL1
 Date Received: 11/28/2022

Cultivar (Strain) or Sample Description: Race Fuel Date Completed: 12/02/2022

MICROBIOLOGICAL PROFILE (SOP: SOP-Micro-001)

Analysis Date/Time: 11/29/2022 1415 **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	-



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)

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.

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