

SUMMARY OF ANALYSIS (SAMPLE ID: SA34558)

Testing Location:	Customer ID: 2161	Order ID: OR10328	Sample Type: Primary
Arkansas	River Valley Relief Cultivation	Lot Number:	Matrix: Flower
232 S. Broadview St.	5601 Old Greenwood Rd Suite C	M00065C13130729982	Mass: 23g
Greenbrier, AR 72058	Fort Smith, AR 72903	Production Run:	Date Collected: 02/27/2023
License: ADH 113	License: 00065C	2023H20230106RFL-1	Date Received: 02/27/2023
Cultivar (Strain) or Sample Description: Race Fuel			Date Completed: 03/02/2023

*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 (%)

13.7

Water Activity (aw)

0.451 @ 24.8°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	30.8	308
CBGA	1.44	14.4
Δ9-THC	0.881	8.81
TOTAL CBD	-	-
TOTAL THC	27.9	279
TOTAL CANNABINOIDS	33.2	332

Terpenes (Top 5)	(%)	µg/g
Caryophyllene oxide	0.415	4150
β-Caryophyllene	0.286	2860
d-Limonene	0.276	2760
β-Myrcene	0.224	2240
Linalool	0.204	2040
TOTAL TERPENES	1.90	19000

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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2023H- 3025H

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



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03/02/2023

CERTIFICATE OF ANALYSIS (SAMPLE ID: SA34558)

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

Analysis Date/Time: 2/28/2023 1606

Analyst: PW

Method: HPLC/DAD

Instrument: Agilent 1100

Moisture Content (%): 13.7

Water Activity (aw): 0.451 @ 24.82°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	0.211	0.493	-	-	-
CBCA	ND	ND	0.656	1.53	-	-	-
CBD	ND	ND	1.49	3.48	-	-	-
CBDV	ND	ND	0.548	1.28	-	-	-
CBDVA	ND	ND	0.239	0.558	-	-	-
CBG	ND	ND	0.637	1.49	-	-	-
CBGA	<LOQ	<LOQ	0.967	2.26	-	-	-
CBL	1.44	14.4	0.693	1.62	-	14.4	14.4
CBN	ND	ND	1.12	2.61	-	-	-
CBNA	ND	ND	0.513	1.20	-	-	-
Δ9-THC	ND	ND	0.554	1.29	-	-	-
Δ8-THC	0.881	8.81	0.615	1.43	-	8.81	8.81
THCA	ND	ND	0.959	2.24	-	-	-
THCV	30.8	308	0.333	0.780	-	308	308
THCVA	ND	ND	0.800	1.87	-	-	-
TOTAL	0.130	1.30	0.256	0.595	-	1.30	1.30
TOTAL CBC	33.2	332	-	-	-	332	332
TOTAL CBD	-	-	-	-	-	-	-
TOTAL CBDV	-	-	-	-	-	-	-
TOTAL CBG	-	-	-	-	-	-	-
TOTAL CBN	1.27	12.7	-	-	-	12.7	12.7
TOTAL THC	-	-	-	-	-	-	-
TOTAL THC V	27.9	279	-	-	-	279	279
	0.113	1.13	-	-	-	1.13	1.13



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 = (CBDV 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.

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



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TERPENOID PROFILE

Analysis Date/Time: 03/01/2023 2203

Analyst: KF

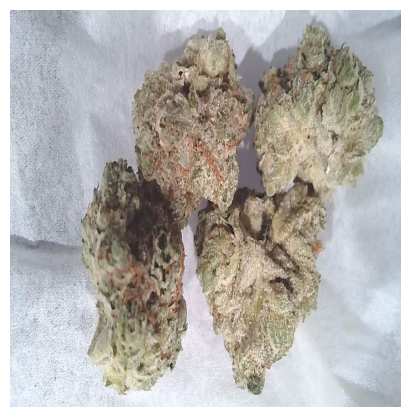
Method: GC/MS

Instrument: Agilent 7890/5975

Deviations from SOP:

None

Terpene	Result (µg/g)	Result (%)	
α-Bisabolol	1170	0.117	■
Camphene	238	0.0238	■
δ-3-Carene	-	-	
β-Caryophyllene	2860	0.286	■
Caryophyllene oxide	4150	0.415	■
p-Cymene	-	-	
Eucalyptol	-	-	
Geraniol	-	-	
Guaiol	1060	0.106	■
α-Humulene	1030	0.103	■
Isopulegol	-	-	
d-Limonene	2760	0.276	■
Linalool	2040	0.204	■
β-Myrcene	2240	0.224	■
cis-Nerolidol	-	-	
trans-Nerolidol	469	0.0469	■
α-Ocimene	-	-	
β-Ocimene	-	-	
α-Pinene	433	0.0433	■
β-Pinene	598	0.0598	■
α-Terpinene	-	-	
γ-Terpinene	-	-	
Terpinolene	-	-	
TOTAL	19000	1.90	



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

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"-" Not detected above RL.

Reporting Limit (µg/g): 42.8

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PESTICIDES PROFILE (SOP: SOP-PEST-001)

Analysis Date/Time: 03/01/2023 1014

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)	-	0.0428	0.342	0.5	Kresoxim-methyl (143390-89-0)	-	0.0428	0.342	0.4
Acephate (30560-19-1)	-	0.0428	0.342	0.4	Malathion (121-75-5)	-	0.0428	0.342	0.2
Acetaminophen (57960-19-7)	-	0.0428	0.342	2	Metalaxyl (57837-19-1)	-	0.0428	0.342	0.2
Acetamiprid (135410-20-7)	-	0.0428	0.342	0.2	Methiocarb (2032-65-7)	-	0.0428	0.342	0.2
Aldicarb (116-06-3)	-	0.0428	0.342	0.4	Methomyl (16752-77-5)	-	0.0428	0.342	0.4
Azoxystrobin (131860-33-8)	-	0.0428	0.342	0.2	Methyl parathion (298-0-0)	-	0.0428	0.342	0.2
Bifenazate (149877-41-8)	-	0.0428	0.342	0.2	MGK 264 (113-48-4)	-	0.0428	0.342	0.2
Bifenthrin (82657-04-3)	-	0.0428	0.342	0.2	Myclobutanil (88671-89-0)	-	0.0428	0.342	0.2
Boscalid (188425-85-6)	-	0.0428	0.342	0.4	Naled (300-76-5)	-	0.0428	0.342	0.5
Carbaryl (63-25-2)	-	0.0428	0.342	0.2	Oxamyl (23135-22-0)	-	0.0428	0.342	1
Carbofuran (1563-66-2)	-	0.0428	0.342	0.2	Paclobutrazol (76738-62-0)	-	0.0428	0.342	0.4
Chlorantraniliprole (800008-45-7)	-	0.0428	0.342	0.2	Permethrins (52645-53-1)	-	0.0428	0.342	0.2
Chlorfenapyr (122453-73-0)	-	0.0428	0.342	1	Phosmet (732-11-6)	-	0.0428	0.342	0.2
Chlorpyrifos (2921-88-2)	-	0.0428	0.342	0.2	Piperonyl butoxide (51-03-6)	-	0.0428	0.342	2
Clofentezine (74115-24-5)	-	0.0428	0.342	0.2	Prallethrin (2331-36-9)	-	0.0428	0.342	0.2
Cyfluthrin (68359-37-5)	-	0.0428	0.342	1	Propiconazole (60207-90-1)	-	0.0428	0.342	0.4
Cypermethrin (52315-07-8)	-	0.0428	0.342	1	Propoxur (114-26-1)	-	0.0428	0.342	0.2
Daminozide (1596-84-5)	-	0.0428	0.342	1	Pyrethrins (8003-34-7)	-	0.0428	0.342	1
DDVP (62-73-7)	-	0.0428	0.342	0.1	Pyridaben (96489-71-3)	-	0.0428	0.342	0.2
Diazinon (333-41-5)	-	0.0428	0.342	0.2	Spinosad (168316-95-8)	-	0.0428	0.342	0.2
Dimethoate (60-51-5)	-	0.0428	0.342	0.2	Spiromesifen (283594-90-1)	-	0.0428	0.342	0.2
Ethoprophos (13194-48-4)	-	0.0428	0.342	0.2	Spirotetramat (203313-25-1)	-	0.0428	0.342	0.2
Etofenprox (80844-07-1)	-	0.0428	0.342	0.4	Spiroxamine (118134-30-8)	-	0.0428	0.342	0.4
Etoazole (153233-91-1)	-	0.0428	0.342	0.2	Tebuconazole (80443-41-0)	-	0.0428	0.342	0.4
Fenoxycarb (72490-01-8)	-	0.0428	0.342	0.2	Thiacloprid (111988-49-9)	-	0.0428	0.342	0.2
(E)-Fenpyroximate (134098-61-6)	-	0.0428	0.342	0.4	Thiamethoxam (153719-23-4)	-	0.0428	0.342	0.2
Fipronil (120068-37-3)	-	0.0428	0.342	0.4	Trifloxystrobin (141517-21-7)	-	0.0428	0.342	0.2
Flonicamid (158062-67-0)	-	0.0428	0.342	1					
Fludioxinil (131341-86-1)	-	0.0428	0.342	0.4					
Hexythiazox (78587-05-0)	-	0.0428	0.342	1					
Imazalil (35554-44-0)	-	0.0428	0.342	0.2					
Imidacloprid (138261-41-3)	-	0.0428	0.342	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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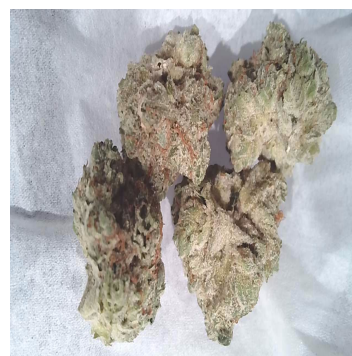
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HEAVY METAL PROFILE (SOP: SOP-ICP-200.7)

Analysis Date/Time: 3/2/2023 0736 (ICP/OES)	Method: ICP/OES	Deviations from SOP:
Analysis Date/Time: - (DMA)	Instrument: Agilent 720-ES	None
Analyst: KF		

Heavy Metal	Result (µg/kg)	LOD (µg/kg)	LOQ (µg/kg)	Action Level (µg/kg)
Arsenic (As)	-	59.1	93.6	200
Cadmium (Cd)	-	59.1	93.6	200
Lead (Pb)	-	59.1	93.6	500
Mercury (Hg)	-	59.1	93.6	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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MICROBIOLOGICAL PROFILE (SOP: SOP-Micro-001)

Analysis Date/Time: 20230301 0851	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	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)

1

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