

SUMMARY OF ANALYSIS (SAMPLE ID: SA37857)

Testing Location:	Customer ID: 2161	Order ID: OR11003	Sample Type: Primary
Arkansas	River Valley Relief Cultivation	Lot Number:	Matrix: Flower
232 S. Broadview St.	5601 Old Greenwood Rd Suite C	M00065C13133726806	Mass: 22g
Greenbrier, AR 72058	Fort Smith, AR 72903	Production Run:	Date Collected: 05/13/2024
License: ADH 113	License: 00065C	6062H20240422SBF-3	Date Received: 05/13/2024
Cultivar (Strain) or Sample Description: Super Boof			Date Completed: 05/15/2024

*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 (%)

12.4

Water Activity (aw)

0.466 @ 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	35.2	352
CBGA	2.89	28.9
CBG	0.340	3.40
TOTAL CBD	-	-
TOTAL THC	30.9	309
TOTAL CANNABINOIDS	38.7	387

Terpenes (Top 5)	(%)	µg/g
d-Limonene	0.477	4770
β-Caryophyllene	0.341	3410
β-Myrcene	0.316	3160
Linalool	0.206	2060
α-Humulene	0.121	1210
TOTAL TERPENES	1.67	16700

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



CERTIFICATE OF ANALYSIS (SAMPLE ID: SA37857)

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

Analysis Date/Time: 05/14/2024 1434

Method: HPLC/DAD

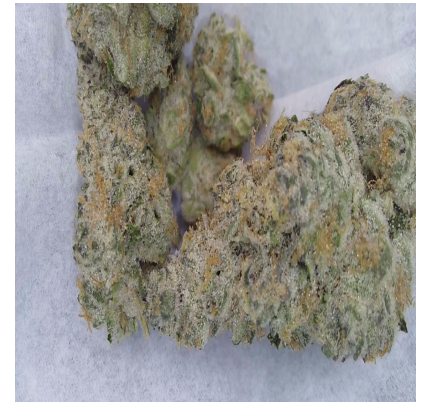
Moisture Content (%): 12.4

Analyst: PW

Instrument: Agilent 1100

Water Activity (aw): 0.466 @ 24.2°C

<u>Cannabinoid</u>	<u>Result</u> <u>(%)</u>	<u>Result</u> <u>(mg/g)</u>	<u>LOD</u> <u>(mg/g)</u>	<u>LOQ</u> <u>(mg/g)</u>	<u>Result</u> <u>(mg/</u> <u>mL)</u>	<u>Per</u> <u>Serving</u> <u>(mg)</u>	<u>Per</u> <u>Unit</u> <u>(mg)</u>
CBC	ND	ND	0.0444	0.104	-	-	-
CBCA	ND	ND	0.138	0.322	-	-	-
CBD	ND	ND	0.313	0.731	-	-	-
CBDV	ND	ND	0.115	0.269	-	-	-
CBDVA	ND	ND	0.134	0.313	-	-	-
CBG	0.340	3.40	0.203	0.475	-	2.97	2.97
CBGA	2.89	28.9	0.288	0.340	-	25.4	25.4
CBL	ND	ND	0.235	0.548	-	-	-
CBN	ND	ND	0.108	0.252	-	-	-
CBNA	ND	ND	0.116	0.271	-	-	-
Δ9-THC	ND	ND	0.129	0.301	-	-	-
Δ8-THC	ND	ND	0.202	0.471	-	-	-
THCA	35.2	352	0.0701	0.164	-	309	309
THCV	ND	ND	0.168	0.392	-	-	-
THCVA	0.173	1.73	0.0537	0.125	-	1.52	1.52
TOTAL	38.7	387			-	339	339
TOTAL CBC	-	-			-	-	-
TOTAL CBD	-	-			-	-	-
TOTAL CBDV	-	-			-	-	-
TOTAL CBG	2.88	28.8			-	25.2	25.2
TOTAL CBN	-	-			-	-	-
TOTAL THC	30.9	309			-	271	271
TOTAL THCV	0.150	1.50			-	1.32	1.32



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 THCV = (THCVA x 0.867) + THCV

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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Percentage results are reported by mass.

mg/g results are reported as mass component per mass material.

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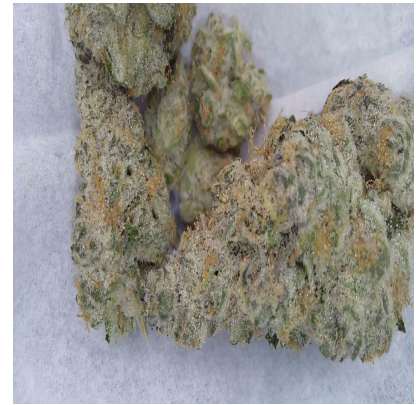
TERPENOID PROFILE

Analysis Date/Time: 05/14/2024 1623
Analyst: KF

Method: GC/MS
Instrument: Agilent 7890/5975

Deviations from SOP:
None

Terpene	Result (µg/g)	Result (%)
α-Bisabolol	521	0.0521
Camphene	119	0.0119
δ-3-Carene	ND	-
β-Caryophyllene	3410	0.341
Caryophyllene oxide	81.0	0.00810
p-Cymene	ND	-
Eucalyptol	ND	-
Geraniol	57.5	0.00575
Guaiol	ND	-
α-Humulene	1210	0.121
Isopulegol	ND	-
d-Limonene	4770	0.477
Linalool	2060	0.206
β-Myrcene	3160	0.316
cis-Nerolidol	ND	-
trans-Nerolidol	ND	-
α-Ocimene	<LOQ	-
β-Ocimene	66.2	0.00662
α-Pinene	432	0.0432
β-Pinene	840	0.0840
α-Terpinene	ND	-
γ-Terpinene	ND	-
Terpinolene	<LOQ	-
TOTAL	16700	1.67



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

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Reporting Limit (µg/g): 48.7

"-" Not detected above LOD.

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PESTICIDES PROFILE (SOP: SOP-PEST-001)

Analysis Date/Time: 05/14/2024 1536

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)	-	0.0484	0.387	0.5	Kresoxim-methyl (143390-89-0)	-	0.0484	0.387	0.4
Acephate (30560-19-1)	-	0.0484	0.387	0.4	Malathion (121-75-5)	-	0.0484	0.387	0.2
Acetaminophen (57960-19-7)	-	0.0484	0.387	2	Metalaxyl (57837-19-1)	-	0.0484	0.387	0.2
Acetamiprid (135410-20-7)	-	0.0484	0.387	0.2	Methiocarb (2032-65-7)	-	0.0484	0.387	0.2
Aldicarb (116-06-3)	-	0.0484	0.387	0.4	Methomyl (16752-77-5)	-	0.0484	0.387	0.4
Azoxystrobin (131860-33-8)	-	0.0484	0.387	0.2	Methyl parathion (298-0-0)	-	0.0484	0.387	0.2
Bifenazate (149877-41-8)	-	0.0484	0.387	0.2	MGK 264 (113-48-4)	-	0.0484	0.387	0.2
Bifenthrin (82657-04-3)	-	0.0484	0.387	0.2	Myclobutanil (88671-89-0)	-	0.0484	0.387	0.2
Boscalid (188425-85-6)	-	0.0484	0.387	0.4	Naled (300-76-5)	-	0.0484	0.387	0.5
Carbaryl (63-25-2)	-	0.0484	0.387	0.2	Oxamyl (23135-22-0)	-	0.0484	0.387	1
Carbofuran (1563-66-2)	-	0.0484	0.387	0.2	Paclobutrazol (76738-62-0)	-	0.0484	0.387	0.4
Chlorantraniliprole (800008-45-7)	-	0.0484	0.387	0.2	Permethrins (52645-53-1)	-	0.0484	0.387	0.2
Chlorfenapyr (122453-73-0)	-	0.0484	0.387	1	Phosmet (732-11-6)	-	0.0484	0.387	0.2
Chlorpyrifos (2921-88-2)	-	0.0484	0.387	0.2	Piperonyl butoxide (51-03-6)	-	0.0484	0.387	2
Clofentezine (74115-24-5)	-	0.0484	0.387	0.2	Prallethrin (2331-36-9)	-	0.0484	0.387	0.2
Cyfluthrin (68359-37-5)	-	0.0484	0.387	1	Propiconazole (60207-90-1)	-	0.0484	0.387	0.4
Cypermethrin (52315-07-8)	-	0.0484	0.387	1	Propoxur (114-26-1)	-	0.0484	0.387	0.2
Daminozide (1596-84-5)	-	0.0484	0.387	1	Pyrethrins (8003-34-7)	-	0.0484	0.387	1
DDVP (62-73-7)	-	0.0484	0.387	0.1	Pyridaben (96489-71-3)	-	0.0484	0.387	0.2
Diazinon (333-41-5)	-	0.0484	0.387	0.2	Spinosad (168316-95-8)	-	0.0484	0.387	0.2
Dimethoate (60-51-5)	-	0.0484	0.387	0.2	Spiromesifen (283594-90-1)	-	0.0484	0.387	0.2
Ethoprophos (13194-48-4)	-	0.0484	0.387	0.2	Spirotetramat (203313-25-1)	-	0.0484	0.387	0.2
Etofenprox (80844-07-1)	-	0.0484	0.387	0.4	Spiroxamine (118134-30-8)	-	0.0484	0.387	0.4
Etazoxole (153233-91-1)	-	0.0484	0.387	0.2	Tebuconazole (80443-41-0)	-	0.0484	0.387	0.4
Fenoxycarb (72490-01-8)	-	0.0484	0.387	0.2	Thiacloprid (111988-49-9)	-	0.0484	0.387	0.2
(E)-Fenpyroximate (134098-61-6)	-	0.0484	0.387	0.4	Thiamethoxam (153719-23-4)	-	0.0484	0.387	0.2
Fipronil (120068-37-3)	-	0.0484	0.387	0.4	Trifloxystrobin (141517-21-7)	-	0.0484	0.387	0.2
Flonicamid (158062-67-0)	-	0.0484	0.387	1					
Fludioxinil (131341-86-1)	-	0.0484	0.387	0.4					
Hexythiazox (78587-05-0)	-	0.0484	0.387	1					
Imazalil (35554-44-0)	-	0.0484	0.387	0.2					
Imidacloprid (138261-41-3)	-	0.0484	0.387	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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HEAVY METAL PROFILE (SOP: SOP-ICP-200.6)

Analysis Date/Time: 05/14/2024 1627 (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)	-	59.6	94.4	200
Cadmium (Cd)	-	59.6	94.4	200
Lead (Pb)	-	59.6	94.4	500
Mercury (Hg)	-	59.6	94.4	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

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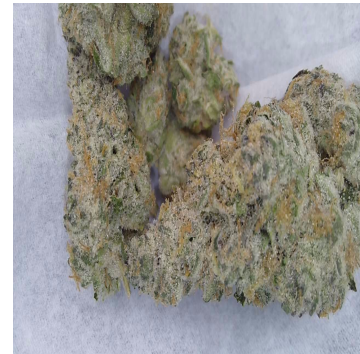
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MICROBIOLOGICAL PROFILE (SOP: SOP-Micro-001)

Analysis Date/Time: 05/14/2024 1409	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

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