

SUMMARY OF ANALYSIS (SAMPLE ID: SA38146)

Testing Location:	Customer ID: 2161	Order ID: OR11056	Sample Type: Primary
Arkansas	River Valley Relief Cultivation	Lot Number:	Matrix: Flower
232 S. Broadview St.	5601 Old Greenwood Rd Suite C	M00065C13131259936	Mass: 23g
Greenbrier, AR 72058	Fort Smith, AR 72903	Production Run:	Date Collected: 06/17/2024
License: ADH 113	License: 00065C	2065H20240523SBF-2	Date Received: 06/17/2024
Cultivar (Strain) or Sample Description: Super Boof			Date Completed: 06/19/2024

*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 (%)

10.6

Water Activity (aw)

0.495 @ 24.5°C

PASS/FAIL

PASS

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

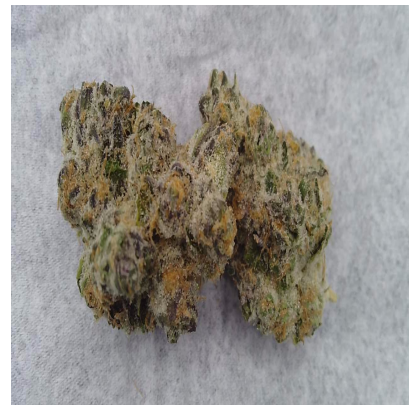
Moisture content levels less than 15% are recommended but the sample does not fail. Water activity levels must be less than 0.65aw.

Cannabinoids (Top 3)	(%)	mg/g
THCA	31.8	318
CBGA	1.89	18.9
CBG	0.261	2.61
TOTAL CBD	-	-
TOTAL THC	28.1	281
TOTAL CANNABINOIDS	34.3	343

Terpenes (Top 5)	(%)	µg/g
d-Limonene	0.461	4610
β-Caryophyllene	0.364	3640
β-Myrcene	0.305	3050
Linalool	0.232	2320
α-Humulene	0.122	1220
TOTAL TERPENES	1.76	17600

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



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

Analysis Date/Time: 06/18/2024 1526

Method: HPLC/DAD

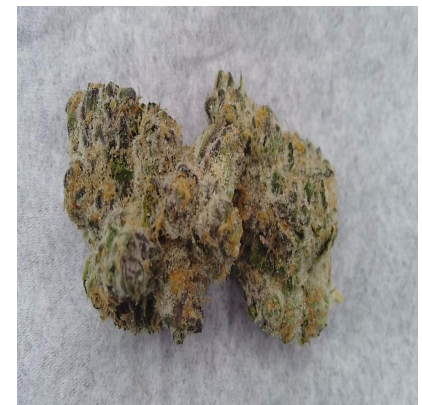
Moisture Content (%): 10.6

Analyst: PW

Instrument: Agilent 1100

Water Activity (aw): 0.495 @ 24.5°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	0.0421	0.0982	-	-	-
CBCA	ND	ND	0.131	0.305	-	-	-
CBD	ND	ND	0.297	0.693	-	-	-
CBDV	ND	ND	0.109	0.255	-	-	-
CBDVA	ND	ND	0.0476	0.111	-	-	-
CBG	ND	ND	0.127	0.297	-	-	-
CBGA	0.261	2.61	0.193	0.450	-	2.33	2.33
CBL	1.89	18.9	0.273	0.322	-	16.9	16.9
CBN	ND	ND	0.223	0.520	-	-	-
CBNA	ND	ND	0.102	0.239	-	-	-
Δ9-THC	ND	ND	0.110	0.257	-	-	-
Δ8-THC	0.185	1.85	0.123	0.286	-	1.65	1.65
THCA	ND	ND	0.191	0.446	-	-	-
THCV	31.8	318	0.0665	0.155	-	284	284
THCVA	ND	ND	0.160	0.372	-	-	-
THCVA	0.175	1.75	0.0510	0.119	-	1.56	1.56
TOTAL	34.3	343			-	307	307
TOTAL CBC	-	-			-	-	-
TOTAL CBD	-	-			-	-	-
TOTAL CBDV	-	-			-	-	-
TOTAL CBG	1.92	19.2			-	17.2	17.2
TOTAL CBN	-	-			-	-	-
TOTAL THC	28.1	281			-	251	251
TOTAL THCVA	0.151	1.51			-	1.35	1.35



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 THCVA = (THCVA x 0.867) + THCVA

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: 06/18/2024 1731
Analyst: KF

Method: GC/MS
Instrument: Agilent 7890/5975

Deviations from SOP:
None

Terpene	Result (µg/g)	Result (%)	
α-Bisabolol	338	0.0338	
Camphene	130	0.0130	
δ-3-Carene	ND	-	
β-Caryophyllene	3640	0.364	
Caryophyllene oxide	106	0.0106	
p-Cymene	ND	-	
Eucalyptol	ND	-	
Geraniol	66.6	0.00666	
Guaiol	ND	-	
α-Humulene	1220	0.122	
Isopulegol	ND	-	
d-Limonene	4610	0.461	
Linalool	2320	0.232	
β-Myrcene	3050	0.305	
cis-Nerolidol	ND	-	
trans-Nerolidol	634	0.0634	
α-Ocimene	56.7	0.00567	
β-Ocimene	58.0	0.00580	
α-Pinene	457	0.0457	
β-Pinene	848	0.0848	
α-Terpinene	ND	-	
γ-Terpinene	ND	-	
Terpinolene	52.9	0.00529	
TOTAL	17600	1.76	



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): 46.2

"-" Not detected above LOD.

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PESTICIDES PROFILE (SOP: SOP-PEST-001)

Analysis Date/Time: 06/18/2024 1533

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)	-	0.0459	0.367	0.5	Kresoxim-methyl (143390-89-0)	-	0.0459	0.367	0.4
Acephate (30560-19-1)	-	0.0459	0.367	0.4	Malathion (121-75-5)	-	0.0459	0.367	0.2
Acetaminophen (57960-19-7)	-	0.0459	0.367	2	Metalaxyl (57837-19-1)	-	0.0459	0.367	0.2
Acetamiprid (135410-20-7)	-	0.0459	0.367	0.2	Methiocarb (2032-65-7)	-	0.0459	0.367	0.2
Aldicarb (116-06-3)	-	0.0459	0.367	0.4	Methomyl (16752-77-5)	-	0.0459	0.367	0.4
Azoxystrobin (131860-33-8)	-	0.0459	0.367	0.2	Methyl parathion (298-0-0)	-	0.0459	0.367	0.2
Bifenazate (149877-41-8)	-	0.0459	0.367	0.2	MGK 264 (113-48-4)	-	0.0459	0.367	0.2
Bifenthrin (82657-04-3)	-	0.0459	0.367	0.2	Myclobutanil (88671-89-0)	-	0.0459	0.367	0.2
Boscalid (188425-85-6)	-	0.0459	0.367	0.4	Naled (300-76-5)	-	0.0459	0.367	0.5
Carbaryl (63-25-2)	-	0.0459	0.367	0.2	Oxamyl (23135-22-0)	-	0.0459	0.367	1
Carbofuran (1563-66-2)	-	0.0459	0.367	0.2	Paclobutrazol (76738-62-0)	-	0.0459	0.367	0.4
Chlorantraniliprole (800008-45-7)	-	0.0459	0.367	0.2	Permethrins (52645-53-1)	-	0.0459	0.367	0.2
Chlorfenapyr (122453-73-0)	-	0.0459	0.367	1	Phosmet (732-11-6)	-	0.0459	0.367	0.2
Chlorpyrifos (2921-88-2)	-	0.0459	0.367	0.2	Piperonyl butoxide (51-03-6)	-	0.0459	0.367	2
Clofentezine (74115-24-5)	-	0.0459	0.367	0.2	Prallethrin (2331-36-9)	-	0.0459	0.367	0.2
Cyfluthrin (68359-37-5)	-	0.0459	0.367	1	Propiconazole (60207-90-1)	-	0.0459	0.367	0.4
Cypermethrin (52315-07-8)	-	0.0459	0.367	1	Propoxur (114-26-1)	-	0.0459	0.367	0.2
Daminozide (1596-84-5)	-	0.0459	0.367	1	Pyrethrins (8003-34-7)	-	0.0459	0.367	1
DDVP (62-73-7)	-	0.0459	0.367	0.1	Pyridaben (96489-71-3)	-	0.0459	0.367	0.2
Diazinon (333-41-5)	-	0.0459	0.367	0.2	Spinosad (168316-95-8)	-	0.0459	0.367	0.2
Dimethoate (60-51-5)	-	0.0459	0.367	0.2	Spiromesifen (283594-90-1)	-	0.0459	0.367	0.2
Ethoprophos (13194-48-4)	-	0.0459	0.367	0.2	Spirotetramat (203313-25-1)	-	0.0459	0.367	0.2
Etofenprox (80844-07-1)	-	0.0459	0.367	0.4	Spiroxamine (118134-30-8)	-	0.0459	0.367	0.4
Etoazoxole (153233-91-1)	-	0.0459	0.367	0.2	Tebuconazole (80443-41-0)	-	0.0459	0.367	0.4
Fenoxycarb (72490-01-8)	-	0.0459	0.367	0.2	Thiacloprid (111988-49-9)	-	0.0459	0.367	0.2
(E)-Fenpyroximate (134098-61-6)	-	0.0459	0.367	0.4	Thiamethoxam (153719-23-4)	-	0.0459	0.367	0.2
Fipronil (120068-37-3)	-	0.0459	0.367	0.4	Trifloxystrobin (141517-21-7)	-	0.0459	0.367	0.2
Flonicamid (158062-67-0)	-	0.0459	0.367	1					
Fludioxinil (131341-86-1)	-	0.0459	0.367	0.4					
Hexythiazox (78587-05-0)	-	0.0459	0.367	1					
Imazalil (35554-44-0)	-	0.0459	0.367	0.2					
Imidacloprid (138261-41-3)	-	0.0459	0.367	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: 06/18/2024 1534 (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)	-	58.9	93.3	200
Cadmium (Cd)	-	58.9	93.3	200
Lead (Pb)	-	58.9	93.3	500
Mercury (Hg)	-	58.9	93.3	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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MICROBIOLOGICAL PROFILE (SOP: SOP-Micro-001)

Analysis Date/Time: 06/18/2024 1124
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

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