

SUMMARY OF ANALYSIS (SAMPLE ID: SA36267)

Testing Location:	Customer ID: 2161	Order ID: OR10659	Sample Type: Primary
Arkansas	River Valley Relief Cultivation	Lot Number:	Matrix: Flower
232 S. Broadview St.	5601 Old Greenwood Rd Suite C	M00065C13137857179	Mass: 12g
Greenbrier, AR 72058	Fort Smith, AR 72903	Production Run:	Date Collected: 10/16/2023
License: ADH 113	License: 00065C	2044H20230916SBF-3	Date Received: 10/16/2023
Cultivar (Strain) or Sample Description: Super Boof			Date Completed: 10/18/2023

*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 (%)

10.0

Water Activity (aw)

0.470 @ 24.3°C

PASS/FAIL

PASS

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

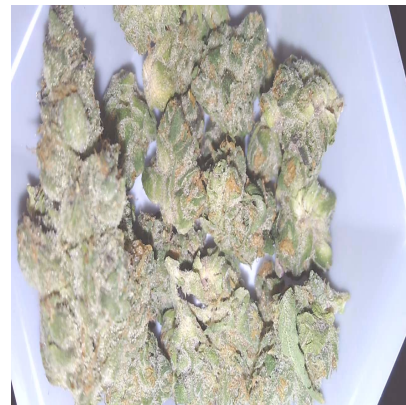
Moisture content levels less than 15% are recommended but the sample does not fail. Water activity levels must be less than 0.65aw.

Cannabinoids (Top 3)	(%)	mg/g
THCA	28.7	287
CBGA	1.48	14.8
CBG	0.278	2.78
TOTAL CBD	-	-
TOTAL THC	25.3	253
TOTAL CANNABINOIDS	30.7	307

Terpenes (Top 5)	(%)	µg/g
d-Limonene	0.407	4070
β-Caryophyllene	0.273	2730
Linalool	0.122	1220
α-Humulene	0.0834	834
β-Pinene	0.0706	706
TOTAL TERPENES	1.13	11300

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: 10/17/2023 2144

Method: HPLC/DAD

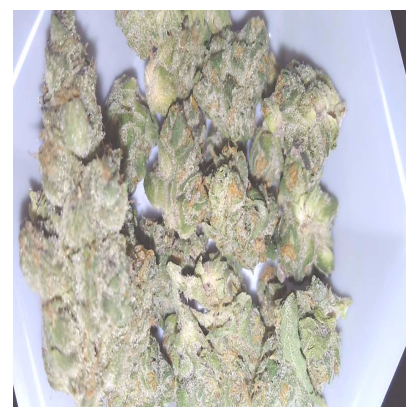
Moisture Content (%): 10.0

Analyst: PW

Instrument: Agilent 1100

Water Activity (aw): 0.470 @ 24.3°C

<u>Cannabinoid</u>	<u>Result</u> (%)	<u>Result</u> (mg/g)	<u>LOD</u> (mg/g)	<u>LOQ</u> (mg/g)	<u>Result</u> (mg/ mL)	<u>Per</u> <u>Serving</u> (mg)	<u>Per</u> <u>Unit</u> (mg)
CBC	ND	ND	0.0439	0.102	-	-	-
CBCA	ND	ND	0.136	0.318	-	-	-
CBD	ND	ND	0.309	0.722	-	-	-
CBDV	ND	ND	0.114	0.266	-	-	-
CBDVA	ND	ND	0.0497	0.116	-	-	-
CBG	ND	ND	0.132	0.309	-	-	-
CBGA	0.278	2.78	0.201	0.469	-	2.50	2.50
CBL	1.48	14.8	0.285	0.336	-	13.3	13.3
CBN	ND	ND	0.232	0.542	-	-	-
CBNA	ND	ND	0.107	0.249	-	-	-
CBNA	ND	ND	0.115	0.268	-	-	-
Δ9-THC	0.152	1.52	0.128	0.298	-	1.37	1.37
Δ8-THC	ND	ND	0.199	0.465	-	-	-
THCA	28.7	287	0.0693	0.162	-	258	258
THCV	ND	ND	0.166	0.388	-	-	-
THCVA	0.120	1.20	0.0531	0.124	-	1.08	1.08
TOTAL	30.7	307			-	276	276
TOTAL CBC	-	-			-	-	-
TOTAL CBD	-	-			-	-	-
TOTAL CBDV	-	-			-	-	-
TOTAL CBG	1.58	15.8			-	14.2	14.2
TOTAL CBN	-	-			-	-	-
TOTAL THC	25.3	253			-	228	228
TOTAL THC V	0.104	1.04			-	0.933	0.933



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

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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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Kyle W. Felling
Laboratory Director



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License: ADH 113	License: 00065C	2044H20230916SBF-3	Date Received: 10/16/2023
Cultivar (Strain) or Sample Description: Super Boof			Date Completed: 10/18/2023

TERPENOID PROFILE

Analysis Date/Time: 10/18/2023 0941

Analyst: KF

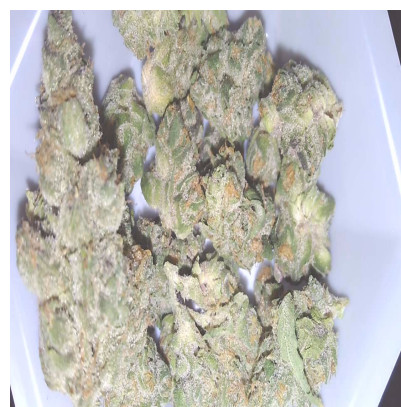
Method: GC/MS

Instrument: Agilent 7890/5975

Deviations from SOP:

None

Terpene	Result (µg/g)	Result (%)
α-Bisabolol	321	0.0321
Camphene	96.2	0.00962
δ-3-Carene	ND	-
β-Caryophyllene	2730	0.273
Caryophyllene oxide	ND	-
p-Cymene	ND	-
Eucalyptol	ND	-
Geraniol	ND	-
Guaiol	<LOQ	-
α-Humulene	834	0.0834
Isopulegol	ND	-
d-Limonene	4070	0.407
Linalool	1220	0.122
β-Myrcene	609	0.0609
cis-Nerolidol	449	0.0449
trans-Nerolidol	ND	-
α-Ocimene	ND	-
β-Ocimene	ND	-
α-Pinene	257	0.0257
β-Pinene	706	0.0706
α-Terpinene	ND	-
γ-Terpinene	ND	-
Terpinolene	ND	-
TOTAL	11300	1.13



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): 80.2

"-" Not detected above LOD.

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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 License: 00065C	Order ID: OR10659 Lot Number: M00065C13137857179 Production Run: 2044H20230916SBF-3	Sample Type: Primary Matrix: Flower Mass: 12g Date Collected: 10/16/2023 Date Received: 10/16/2023
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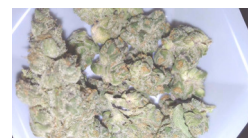
PESTICIDES PROFILE (SOP: SOP-PEST-001)

Analysis Date/Time: 10/17/2023 2151
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)	-	0.0479	0.383	0.5	Kresoxim-methyl (143390-89-0)	-	0.0479	0.383	0.4
Acephate (30560-19-1)	-	0.0479	0.383	0.4	Malathion (121-75-5)	-	0.0479	0.383	0.2
Acetamiprid (57960-19-7)	-	0.0479	0.383	2	Metalaxyl (57837-19-1)	-	0.0479	0.383	0.2
Acetamiprid (135410-20-7)	-	0.0479	0.383	0.2	Methiocarb (2032-65-7)	-	0.0479	0.383	0.2
Aldicarb (116-06-3)	-	0.0479	0.383	0.4	Methomyl (16752-77-5)	-	0.0479	0.383	0.4
Azoxystrobin (131860-33-8)	-	0.0479	0.383	0.2	Methyl parathion (298-0-0)	-	0.0479	0.383	0.2
Bifenazate (149877-41-8)	-	0.0479	0.383	0.2	MGK 264 (113-48-4)	-	0.0479	0.383	0.2
Bifenthrin (82657-04-3)	-	0.0479	0.383	0.2	Myclobutanil (88671-89-0)	-	0.0479	0.383	0.2
Boscalid (188425-85-6)	-	0.0479	0.383	0.4	Naled (300-76-5)	-	0.0479	0.383	0.5
Carbaryl (63-25-2)	-	0.0479	0.383	0.2	Oxamyl (23135-22-0)	-	0.0479	0.383	1
Carbofuran (1563-66-2)	-	0.0479	0.383	0.2	Paclobutrazol (76738-62-0)	-	0.0479	0.383	0.4
Chlorantraniliprole (800008-45-7)	-	0.0479	0.383	0.2	Permethrins (52645-53-1)	-	0.0479	0.383	0.2
Chlorfenapyr (122453-73-0)	-	0.0479	0.383	1	Phosmet (732-11-6)	-	0.0479	0.383	0.2
Chlorpyrifos (2921-88-2)	-	0.0479	0.383	0.2	Piperonyl butoxide (51-03-6)	-	0.0479	0.383	2
Clofentezine (74115-24-5)	-	0.0479	0.383	0.2	Prallethrin (2331-36-9)	-	0.0479	0.383	0.2
Cyfluthrin (68359-37-5)	-	0.0479	0.383	1	Propiconazole (60207-90-1)	-	0.0479	0.383	0.4
Cypermethrin (52315-07-8)	-	0.0479	0.383	1	Propoxur (114-26-1)	-	0.0479	0.383	0.2
Daminozide (1596-84-5)	-	0.0479	0.383	1	Pyrethrins (8003-34-7)	-	0.0479	0.383	1
DDVP (62-73-7)	-	0.0479	0.383	0.1	Pyridaben (96489-71-3)	-	0.0479	0.383	0.2
Diazinon (333-41-5)	-	0.0479	0.383	0.2	Spinosad (168316-95-8)	-	0.0479	0.383	0.2
Dimethoate (60-51-5)	-	0.0479	0.383	0.2	Spiromesifen (283594-90-1)	-	0.0479	0.383	0.2
Ethoprophos (13194-48-4)	-	0.0479	0.383	0.2	Spirotetramat (203313-25-1)	-	0.0479	0.383	0.2
Etofenprox (80844-07-1)	-	0.0479	0.383	0.4	Spiroxamine (118134-30-8)	-	0.0479	0.383	0.4
Etiozazole (153233-91-1)	-	0.0479	0.383	0.2	Tebuconazole (80443-41-0)	-	0.0479	0.383	0.4
Fenoxycarb (72490-01-8)	-	0.0479	0.383	0.2	Thiacloprid (111988-49-9)	-	0.0479	0.383	0.2
(E)-Fenpyroximate (134098-61-6)	-	0.0479	0.383	0.4	Thiamethoxam (153719-23-4)	-	0.0479	0.383	0.2
Fipronil (120068-37-3)	-	0.0479	0.383	0.4	Trifloxystrobin (141517-21-7)	-	0.0479	0.383	0.2
Flonicamid (158062-67-0)	-	0.0479	0.383	1					
Fludioxinil (131341-86-1)	-	0.0479	0.383	0.4					
Hexythiazox (78587-05-0)	-	0.0479	0.383	1					
Imazalil (35554-44-0)	-	0.0479	0.383	0.2					
Imidacloprid (138261-41-3)	-	0.0479	0.383	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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License: ADH 113	License: 00065C	2044H20230916SBF-3	Date Received: 10/16/2023
Cultivar (Strain) or Sample Description: Super Boof			Date Completed: 10/18/2023

HEAVY METAL PROFILE (SOP: SOP-ICP-200.6)

Analysis Date/Time: 10/17/2023 2044 (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

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MICROBIOLOGICAL PROFILE (SOP: SOP-Micro-001)

Analysis Date/Time: 10/18/2023 0857	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	Absent	-
Coliforms, Total	Absent	1
Escherichia Coli (E. Coli)	NT	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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