

SUMMARY OF ANALYSIS (SAMPLE ID: SA36265)

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: M00065C13139337530 Production Run: 2044H20230916SBF-1	Sample Type: Primary Matrix: Flower Mass: 23g Date Collected: 10/16/2023 Date Received: 10/16/2023 Date Completed: 10/18/2023
Cultivar (Strain) or Sample Description: Super Boof			

*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 (%)

10.1

Water Activity (aw)

0.473 @ 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	32.9	329
CBGA	1.32	13.2
CBG	0.306	3.06
TOTAL CBD	-	-
TOTAL THC	29.0	290
TOTAL CANNABINOIDS	35.0	350

Terpenes (Top 5)	(%)	µg/g
d-Limonene	0.376	3760
β-Caryophyllene	0.356	3560
β-Myrcene	0.142	1420
Linalool	0.116	1160
α-Humulene	0.101	1010
TOTAL TERPENES	1.33	13300

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

Analysis Date/Time: 10/17/2023 2118
Analyst: PW
Method: HPLC/DAD
Instrument: Agilent 1100
Moisture Content (%): 10.1
Water Activity (aw): 0.473 @ 24.3°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	0.0396	0.0923	-	-	-
CBCA	ND	ND	0.123	0.287	-	-	-
CBD	ND	ND	0.279	0.651	-	-	-
CBDV	ND	ND	0.0448	0.104	-	-	-
CBDVA	ND	ND	0.119	0.279	-	-	-
CBG	0.306	3.06	0.181	0.423	-	2.75	2.75
CBGA	1.32	13.2	0.257	0.303	-	11.8	11.8
CBL	0.124	1.24	0.209	0.489	-	1.11	1.11
CBN	ND	ND	0.0961	0.225	-	-	-
CBNA	ND	ND	0.104	0.242	-	-	-
Δ9-THC	0.185	1.85	0.115	0.269	-	1.67	1.67
Δ8-THC	ND	ND	0.180	0.420	-	-	-
THCA	32.9	329	0.0625	0.146	-	296	296
THCV	ND	ND	0.150	0.350	-	-	-
THCVA	0.161	1.61	0.0479	0.111	-	1.45	1.45
TOTAL	35.0	350				315	315
TOTAL CBC	-	-				-	-
TOTAL CBD	-	-				-	-
TOTAL CBDV	-	-				-	-
TOTAL CBG	1.46	14.6				13.1	13.1
TOTAL CBN	-	-				-	-
TOTAL THC	29.0	290				261	261
TOTAL THCVA	0.139	1.39				1.25	1.25



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

Percentage results are reported by mass.

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

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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TERPENOID PROFILE

Analysis Date/Time: 10/18/2023 0857
Analyst: KF

Method: GC/MS
Instrument: Agilent 7890/5975

Deviations from SOP:
None

<u>Terpene</u>	<u>Result (µg/g)</u>	<u>Result (%)</u>	
α-Bisabolol	578	0.0578	
Camphene	86.8	0.00868	
δ-3-Carene	ND	-	
β-Caryophyllene	3560	0.356	
Caryophyllene oxide	ND	-	
p-Cymene	ND	-	
Eucalyptol	ND	-	
Geraniol	ND	-	
Guaiol	ND	-	
α-Humulene	1010	0.101	
Isopulegol	ND	-	
d-Limonene	3760	0.376	
Linalool	1160	0.116	
β-Myrcene	1420	0.142	
cis-Nerolidol	347	0.0347	
trans-Nerolidol	434	0.0434	
α-Ocimene	ND	-	
β-Ocimene	ND	-	
α-Pinene	231	0.0231	
β-Pinene	723	0.0723	
α-Terpinene	ND	-	
γ-Terpinene	ND	-	
Terpinolene	ND	-	
TOTAL	13300	1.33	



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): 72.3

"-" Not detected above LOD.

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PESTICIDES PROFILE (SOP: SOP-PEST-001)

Analysis Date/Time: 10/17/2023 2120		Method: LC/MS/MS		Deviations from SOP:					
Analyst: KF		Instrument: Shimadzu LC-8050		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)	-	0.0432	0.346	0.5	Kresoxim-methyl (143390-89-0)	-	0.0432	0.346	0.4
Acephate (30560-19-1)	-	0.0432	0.346	0.4	Malathion (121-75-5)	-	0.0432	0.346	0.2
Acetaminocyl (57960-19-7)	-	0.0432	0.346	2	Metalaxyl (57837-19-1)	-	0.0432	0.346	0.2
Acetamiprid (135410-20-7)	-	0.0432	0.346	0.2	Methiocarb (2032-65-7)	-	0.0432	0.346	0.2
Aldicarb (116-06-3)	-	0.0432	0.346	0.4	Methomyl (16752-77-5)	-	0.0432	0.346	0.4
Azoxystrobin (131860-33-8)	-	0.0432	0.346	0.2	Methyl parathion (298-0-0)	-	0.0432	0.346	0.2
Bifenazate (149877-41-8)	-	0.0432	0.346	0.2	MGK 264 (113-48-4)	-	0.0432	0.346	0.2
Bifenthrin (82657-04-3)	-	0.0432	0.346	0.2	Myclobutanil (88671-89-0)	-	0.0432	0.346	0.2
Boscalid (188425-85-6)	-	0.0432	0.346	0.4	Naled (300-76-5)	-	0.0432	0.346	0.5
Carbaryl (63-25-2)	-	0.0432	0.346	0.2	Oxamyl (23135-22-0)	-	0.0432	0.346	1
Carbofuran (1563-66-2)	-	0.0432	0.346	0.2	Pacllobutrazol (76738-62-0)	-	0.0432	0.346	0.4
Chlorantraniliprole (800008-45-7)	-	0.0432	0.346	0.2	Permethrins (52645-53-1)	-	0.0432	0.346	0.2
Chlorfenapyr (122453-73-0)	-	0.0432	0.346	1	Phosmet (732-11-6)	-	0.0432	0.346	0.2
Chlorpyrifos (2921-88-2)	-	0.0432	0.346	0.2	Piperonyl butoxide (51-03-6)	-	0.0432	0.346	2
Clofentezine (74115-24-5)	-	0.0432	0.346	0.2	Prallethrins (2331-36-9)	-	0.0432	0.346	0.2
Cyfluthrin (68359-37-5)	-	0.0432	0.346	1	Propiconazole (60207-90-1))	-	0.0432	0.346	0.4
Cypermethrin (52315-07-8)	-	0.0432	0.346	1	Propoxur (114-26-1)	-	0.0432	0.346	0.2
Daminozide (1596-84-5)	-	0.0432	0.346	1	Pyrethrins (8003-34-7)	-	0.0432	0.346	1
DDVP (62-73-7)	-	0.0432	0.346	0.1	Pyridaben (96489-71-3)	-	0.0432	0.346	0.2
Diazinon (333-41-5)	-	0.0432	0.346	0.2	Spinosad (168316-95-8)	-	0.0432	0.346	0.2
Dimethoate (60-51-5)	-	0.0432	0.346	0.2	Spiromesifen (283594-90-1)	-	0.0432	0.346	0.2
Ethoprophos (13194-48-4)	-	0.0432	0.346	0.2	Spirotetramat (203313-25-1)	-	0.0432	0.346	0.2
Etofenprox (80844-07-1)	-	0.0432	0.346	0.4	Spiroxamine (118134-30-8)	-	0.0432	0.346	0.4
Etozazole (153233-91-1)	-	0.0432	0.346	0.2	Tebuconazole (80443-41-0)	-	0.0432	0.346	0.4
Fenoxycarb (72490-01-8)	-	0.0432	0.346	0.2	Thiacloprid (111988-49-9)	-	0.0432	0.346	0.2
(E)-Fenpyroximate (134098-61-6)	-	0.0432	0.346	0.4	Thiamethoxam (153719-23-4)	-	0.0432	0.346	0.2
Fipronil (120068-37-3)	-	0.0432	0.346	0.4	Trifloxystrobin (141517-21-7)	-	0.0432	0.346	0.2
Fonicamid (158062-67-0)	-	0.0432	0.346	1					
Fludioxinil (131341-86-1)	-	0.0432	0.346	0.4					
Hexythiazox (78587-05-0)	-	0.0432	0.346	1					
Imazalil (35554-44-0)	-	0.0432	0.346	0.2					
Imidacloprid (138261-41-3)	-	0.0432	0.346	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	Sythane	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: 10/17/2023 2030 (ICP/OES) **Method:** ICP/MS **Deviations from SOP:**
Analysis Date/Time: - (DMA) **Instrument:** Agilent 7500ce None
Analyst: KF

<u>Heavy Metal</u>	<u>Result (µg/kg)</u>	<u>LOD (µg/kg)</u>	<u>LOQ (µg/kg)</u>	<u>Action Level (µg/kg)</u>
Arsenic (As)	-	58.3	92.3	200
Cadmium (Cd)	-	58.3	92.3	200
Lead (Pb)	-	58.3	92.3	500
Mercury (Hg)	-	58.3	92.3	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



"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: 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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