

SUMMARY OF ANALYSIS (SAMPLE ID: SA35865)

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: OR10580 Lot Number: M00065C13139539126 Production Run: 4039H20230807TFS-1	Sample Type: Primary Matrix: Flower Mass: 7Grams Date Collected: 08/21/2023 Date Received: 08/21/2023 Date Completed: 08/25/2023
Cultivar (Strain) or Sample Description: Truffle Shuffle			

*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)

0.562 @ 24.4°C

PASS/FAIL

PASS

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

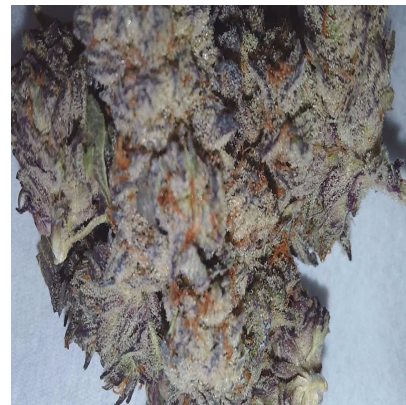
Moisture content levels less than 15% are recommended but the sample does not fail. Water activity levels must be less than 0.65aw.

Cannabinoids (Top 3)	(%)	mg/g
THCA	20.1	201
CBGA	0.327	3.27
Δ9-THC	0.245	2.45
TOTAL CBD	-	-
TOTAL THC	17.9	179
TOTAL CANNABINOIDS	20.8	208

Terpenes (Top 5)	(%)	µg/g
Caryophyllene oxide	0.731	7310
d-Limonene	0.171	1710
α-Pinene	0.147	1470
β-Pinene	0.0858	858
β-Ocimene	0.0475	475
TOTAL TERPENES	1.20	12000

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
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Laboratory Director

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CERTIFICATE OF ANALYSIS (SAMPLE ID: SA35865)

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

Analysis Date/Time: 08/22/2023 1931 **Method:** HPLC/DAD **Moisture Content (%):** 12.4
Analyst: PW **Instrument:** Agilent 1100 **Water Activity (aw):** 0.562 @ 24.4°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	0.0440	0.103	-	-	-
CBCA	ND	ND	0.137	0.319	-	-	-
CBD	ND	ND	0.311	0.725	-	-	-
CBDV	ND	ND	0.114	0.267	-	-	-
CBDVA	ND	ND	0.133	0.310	-	-	-
CBG	ND	ND	0.202	0.471	-	-	-
CBGA	0.327	3.27	0.286	0.337	-	2.86	2.86
CBL	ND	ND	0.233	0.544	-	-	-
CBN	ND	ND	0.107	0.250	-	-	-
CBNA	ND	ND	0.116	0.269	-	-	-
Δ9-THC	0.245	2.45	0.128	0.299	-	2.15	2.15
Δ8-THC	ND	ND	0.200	0.467	-	-	-
THCA	20.1	201	0.0695	0.163	-	176	176
THCV	ND	ND	0.167	0.389	-	-	-
THCVA	0.132	1.32	0.0533	0.124	-	1.16	1.16
TOTAL	20.8	208				182	182
TOTAL CBC	-	-				-	-
TOTAL CBD	-	-				-	-
TOTAL CBDV	-	-				-	-
TOTAL CBG	0.287	2.87				2.52	2.52
TOTAL CBN	-	-				-	-
TOTAL THC	17.9	179				157	157
TOTAL THCV	0.115	1.15				1.00	1.00



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) + 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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Cultivar (Strain) or Sample Description: Truffle Shuffle			Date Completed: 08/25/2023

TERPENOID PROFILE

Analysis Date/Time: 08/22/2023 2234
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	ND	-
Camphene	ND	-
δ-3-Carene	ND	-
β-Caryophyllene	220	0.0220
Caryophyllene oxide	7310	0.731
p-Cymene	ND	-
Eucalyptol	ND	-
Geraniol	ND	-
Guaiol	ND	-
α-Humulene	ND	-
Isopulegol	ND	-
d-Limonene	1710	0.171
Linalool	ND	-
β-Myrcene	<LOQ	-
cis-Nerolidol	ND	-
trans-Nerolidol	ND	-
α-Ocimene	ND	-
β-Ocimene	475	0.0475
α-Pinene	1470	0.147
β-Pinene	858	0.0858
α-Terpinene	ND	-
γ-Terpinene	ND	-
Terpinolene	ND	-
TOTAL	12000	1.20



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): 48.3

"-" Not detected above LOD.

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PESTICIDES PROFILE (SOP: SOP-PEST-001)

Analysis Date/Time: 01/01/1900 1200
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)	-	0.0482	0.386	0.5	Kresoxim-methyl (143390-89-0)	-	0.0482	0.386	0.4
Acephate (30560-19-1)	-	0.0482	0.386	0.4	Malathion (121-75-5)	-	0.0482	0.386	0.2
Acetamiprid (135410-20-7)	-	0.0482	0.386	0.2	Metalaxyl (57837-19-1)	-	0.0482	0.386	0.2
Aldicarb (116-06-3)	-	0.0482	0.386	0.4	Methiocarb (2032-65-7)	-	0.0482	0.386	0.2
Azoxystrobin (131860-33-8)	-	0.0482	0.386	0.2	Methomyl (16752-77-5)	-	0.0482	0.386	0.4
Bifenazate (149877-41-8)	-	0.0482	0.386	0.2	Methyl parathion (298-0-0)	-	0.0482	0.386	0.2
Bifenthrin (82657-04-3)	-	0.0482	0.386	0.2	MGK 264 (113-48-4)	-	0.0482	0.386	0.2
Boscalid (188425-85-6)	-	0.0482	0.386	0.4	Myclobutanil (88671-89-0)	-	0.0482	0.386	0.2
Carbaryl (63-25-2)	-	0.0482	0.386	0.2	Naled (300-76-5)	-	0.0482	0.386	0.5
Carbofuran (1563-66-2)	-	0.0482	0.386	0.2	Oxamyl (23135-22-0)	-	0.0482	0.386	1
Chlorantraniliprole (800008-45-7)	-	0.0482	0.386	0.2	Pacllobutrazol (76738-62-0)	-	0.0482	0.386	0.4
Chlorfenapyr (122453-73-0)	-	0.0482	0.386	1	Permethrins (52645-53-1)	-	0.0482	0.386	0.2
Chlorpyrifos (2921-88-2)	-	0.0482	0.386	0.2	Phosmet (732-11-6)	-	0.0482	0.386	0.2
Clofentezine (74115-24-5)	-	0.0482	0.386	0.2	Piperonyl butoxide (51-03-6)	-	0.0482	0.386	2
Cyfluthrin (68359-37-5)	-	0.0482	0.386	1	Prallethrins (2331-36-9)	-	0.0482	0.386	0.2
Cypermethrin (52315-07-8)	-	0.0482	0.386	1	Propiconazole (60207-90-1))	-	0.0482	0.386	0.4
Daminozide (1596-84-5)	-	0.0482	0.386	1	Propoxur (114-26-1)	-	0.0482	0.386	0.2
DDVP (62-73-7)	-	0.0482	0.386	0.1	Pyrethrins (8003-34-7)	-	0.0482	0.386	1
Diazinon (333-41-5)	-	0.0482	0.386	0.2	Pyridaben (96489-71-3)	-	0.0482	0.386	0.2
Dimethoate (60-51-5)	-	0.0482	0.386	0.2	Spinosad (168316-95-8)	-	0.0482	0.386	0.2
Ethoprophos (13194-48-4)	-	0.0482	0.386	0.2	Spiromesifen (283594-90-1)	-	0.0482	0.386	0.2
Etofenprox (80844-07-1)	-	0.0482	0.386	0.4	Spirotetramat (203313-25-1)	-	0.0482	0.386	0.2
Etoxazole (153233-91-1)	-	0.0482	0.386	0.2	Spiroxamine (118134-30-8)	-	0.0482	0.386	0.4
Fenoxycarb (72490-01-8)	-	0.0482	0.386	0.2	Tebuconazole (80443-41-0)	-	0.0482	0.386	0.4
(E)-Fenpyroximate (134098-61-6)	-	0.0482	0.386	0.4	Thiacloprid (111988-49-9)	-	0.0482	0.386	0.2
Fipronil (120068-37-3)	-	0.0482	0.386	0.4	Thiamethoxam (153719-23-4)	-	0.0482	0.386	0.2
Fonicamid (158062-67-0)	-	0.0482	0.386	1	Trifloxystrobin (141517-21-7)	-	0.0482	0.386	0.2
Fludioxinil (131341-86-1)	-	0.0482	0.386	0.4					
Hexythiazox (78587-05-0)	-	0.0482	0.386	1					
Imazalil (35554-44-0)	-	0.0482	0.386	0.2					
Imidacloprid (138261-41-3)	-	0.0482	0.386	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: 08/24/2023 2215 (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)	-	58.6	92.7	200
Cadmium (Cd)	-	58.6	92.7	200
Lead (Pb)	-	58.6	92.7	500
Mercury (Hg)	-	58.6	92.7	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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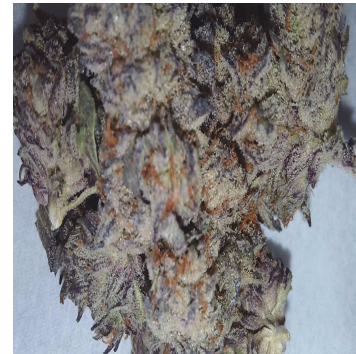
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MICROBIOLOGICAL PROFILE (SOP: SOP-Micro-001)

Analysis Date/Time: 08/24/2023 1021 **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 (Green background)

RESULT > AL (Red background)

Reporting Limit (CFU/g)
1

Action levels for microbiology are referenced from the State of Arkansas MMJ testing guidelines.
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