

**SUMMARY OF ANALYSIS (SAMPLE ID: SA36433)**

<b>Testing Location:</b> Arkansas 232 S. Broadview St. Greenbrier, AR 72058 License: ADH 113	<b>Customer ID:</b> 2161 River Valley Relief Cultivation 5601 Old Greenwood Rd Suite C Fort Smith, AR 72903 License: 00065C	<b>Order ID:</b> OR10702 <b>Lot Number:</b> M00065C13138662214 <b>Production Run:</b> H20231012TFS-1	<b>Sample Type:</b> Primary <b>Matrix:</b> Flower <b>Mass:</b> 7g <b>Date Collected:</b> 11/13/2023 <b>Date Received:</b> 11/13/2023
<b>Cultivar (Strain) or Sample Description:</b> Truffle Shuffle			<b>Date Completed:</b> 11/15/2023

\*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 (%)**

13.1

**Water Activity (aw)**

0.505 @ 24.3°C

**PASS/FAIL**

**PASS**

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

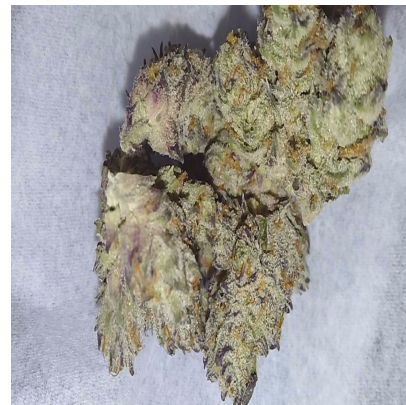
Moisture content levels less than 15% are recommended but the sample does not fail. Water activity levels must be less than 0.65aw.

<b>Cannabinoids (Top 3)</b>	<b>(%)</b>	<b>mg/g</b>
THCA	20.2	202
CBGA	0.345	3.45
Δ9-THC	0.300	3.00
TOTAL CBD	-	-
TOTAL THC	18.0	180
TOTAL CANNABINOIDS	21.3	213

<b>Terpenes (Top 5)</b>	<b>(%)</b>	<b>µg/g</b>
d-Limonene	0.878	8780
β-Caryophyllene	0.244	2440
β-Pinene	0.211	2110
α-Pinene	0.208	2080
Guaiol	0.104	1040
TOTAL TERPENES	1.90	19000

<b>Contaminants</b>	<b>PASS/FAIL</b>
Heavy Metals:	<b>PASS</b>
Microbiology:	<b>PASS</b>
Pesticides:	<b>PASS</b>

**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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**Cultivar (Strain) or Sample Description:** Truffle Shuffle **Date Completed:** 11/15/2023

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

**Analysis Date/Time:** 11/14/2023 1802 **Method:** HPLC/DAD **Moisture Content (%):** 13.1  
**Analyst:** PW **Instrument:** Agilent 1100 **Water Activity (aw):** 0.505 @ 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	0.0445	0.104	-	-	-
CBCA	ND	ND	0.138	0.322	-	-	-
CBD	ND	ND	0.314	0.732	-	-	-
CBDV	ND	ND	0.115	0.270	-	-	-
CBDVA	ND	ND	0.134	0.313	-	-	-
CBG	ND	ND	0.204	0.475	-	-	-
CBGA	0.345	3.45	0.289	0.340	-	3.00	3.00
CBL	0.298	2.98	0.235	0.549	-	2.59	2.59
CBN	ND	ND	0.108	0.252	-	-	-
CBNA	ND	ND	0.117	0.272	-	-	-
Δ9-THC	0.300	3.00	0.129	0.302	-	2.61	2.61
Δ8-THC	ND	ND	0.202	0.472	-	-	-
THCA	20.2	202	0.0702	0.164	-	175	175
THCV	ND	ND	0.168	0.393	-	-	-
THCVA	0.188	1.88	0.0538	0.125	-	1.63	1.63
<b>TOTAL</b>	<b>21.3</b>	<b>213</b>				<b>185</b>	<b>185</b>
<b>TOTAL CBC</b>	-	-				-	-
<b>TOTAL CBD</b>	-	-				-	-
<b>TOTAL CBDV</b>	-	-				-	-
<b>TOTAL CBG</b>	0.303	3.03				2.63	2.63
<b>TOTAL CBN</b>	-	-				-	-
<b>TOTAL THC</b>	18.0	180				156	156
<b>TOTAL THC V</b>	0.163	1.63				1.42	1.42



**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

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:** 11/15/2023

**TERPENOID PROFILE**

**Analysis Date/Time:** 11/15/2023 0437  
**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	553	0.0553	■
Camphene	260	0.0260	■
δ-3-Carene	ND	-	
β-Caryophyllene	2440	0.244	■
Caryophyllene oxide	ND	-	
p-Cymene	ND	-	
Eucalyptol	ND	-	
Geraniol	ND	-	
Guaiol	1040	0.104	■
α-Humulene	975	0.0975	■
Isopulegol	ND	-	
d-Limonene	8780	0.878	■
Linalool	ND	-	
β-Myrcene	ND	-	
cis-Nerolidol	358	0.0358	■
trans-Nerolidol	390	0.0390	■
α-Ocimene	ND	-	
β-Ocimene	ND	-	
α-Pinene	2080	0.208	■
β-Pinene	2110	0.211	■
α-Terpinene	ND	-	
γ-Terpinene	ND	-	
Terpinolene	ND	-	
<b>TOTAL</b>	<b>19000</b>	<b>1.90</b>	



*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): 81.3**

"-" Not detected above LOD.

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

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**PESTICIDES PROFILE (SOP: SOP-PEST-001)**

**Analysis Date/Time:** 11/14/2023 1858  
**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)	-	0.0486	0.389	0.5	Kresoxim-methyl (143390-89-0)	-	0.0486	0.389	0.4
Acephate (30560-19-1)	-	0.0486	0.389	0.4	Malathion (121-75-5)	-	0.0486	0.389	0.2
Acetamiprid (135410-20-7)	-	0.0486	0.389	0.2	Metalaxyl (57837-19-1)	-	0.0486	0.389	0.2
Aldicarb (116-06-3)	-	0.0486	0.389	0.4	Methiocarb (2032-65-7)	-	0.0486	0.389	0.2
Azoxystrobin (131860-33-8)	-	0.0486	0.389	0.2	Methomyl (16752-77-5)	-	0.0486	0.389	0.4
Bifenazate (149877-41-8)	-	0.0486	0.389	0.2	Methyl parathion (298-0-0)	-	0.0486	0.389	0.2
Bifenthrin (82657-04-3)	-	0.0486	0.389	0.2	MGK 264 (113-48-4)	-	0.0486	0.389	0.2
Boscalid (188425-85-6)	-	0.0486	0.389	0.4	Myclobutanil (88671-89-0)	-	0.0486	0.389	0.2
Carbaryl (63-25-2)	-	0.0486	0.389	0.2	Naled (300-76-5)	-	0.0486	0.389	0.5
Carbofuran (1563-66-2)	-	0.0486	0.389	0.2	Oxamyl (23135-22-0)	-	0.0486	0.389	1
Chlorantraniliprole (800008-45-7)	-	0.0486	0.389	0.2	Pacllobutrazol (76738-62-0)	-	0.0486	0.389	0.4
Chlorfenapyr (122453-73-0)	-	0.0486	0.389	1	Permethrins (52645-53-1)	-	0.0486	0.389	0.2
Chlorpyrifos (2921-88-2)	-	0.0486	0.389	0.2	Phosmet (732-11-6)	-	0.0486	0.389	0.2
Clofentezine (74115-24-5)	-	0.0486	0.389	0.2	Piperonyl butoxide (51-03-6)	-	0.0486	0.389	2
Cyfluthrin (68359-37-5)	-	0.0486	0.389	1	Prallethrins (2331-36-9)	-	0.0486	0.389	0.2
Cypermethrin (52315-07-8)	-	0.0486	0.389	1	Propiconazole (60207-90-1))	-	0.0486	0.389	0.4
Daminozide (1596-84-5)	-	0.0486	0.389	1	Propoxur (114-26-1)	-	0.0486	0.389	0.2
DDVP (62-73-7)	-	0.0486	0.389	0.1	Pyrethrins (8003-34-7)	-	0.0486	0.389	1
Diazinon (333-41-5)	-	0.0486	0.389	0.2	Pyridaben (96489-71-3)	-	0.0486	0.389	0.2
Dimethoate (60-51-5)	-	0.0486	0.389	0.2	Spinosad (168316-95-8)	-	0.0486	0.389	0.2
Ethoprophos (13194-48-4)	-	0.0486	0.389	0.2	Spiromesifen (283594-90-1)	-	0.0486	0.389	0.2
Etofenprox (80844-07-1)	-	0.0486	0.389	0.4	Spirotetramat (203313-25-1)	-	0.0486	0.389	0.2
Etoxazole (153233-91-1)	-	0.0486	0.389	0.2	Spiroxamine (118134-30-8)	-	0.0486	0.389	0.4
Fenoxycarb (72490-01-8)	-	0.0486	0.389	0.2	Tebuconazole (80443-41-0)	-	0.0486	0.389	0.4
(E)-Fenpyroximate (134098-61-6)	-	0.0486	0.389	0.4	Thiacloprid (111988-49-9)	-	0.0486	0.389	0.2
Fipronil (120068-37-3)	-	0.0486	0.389	0.4	Thiamethoxam (153719-23-4)	-	0.0486	0.389	0.2
Fonicamid (158062-67-0)	-	0.0486	0.389	1	Trifloxystrobin (141517-21-7)	-	0.0486	0.389	0.2
Fludioxinil (131341-86-1)	-	0.0486	0.389	0.4					
Hexythiazox (78587-05-0)	-	0.0486	0.389	1					
Imazalil (35554-44-0)	-	0.0486	0.389	0.2					
Imidacloprid (138261-41-3)	-	0.0486	0.389	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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<b>Cultivar (Strain) or Sample Description:</b> Truffle Shuffle			<b>Date Completed:</b> 11/15/2023

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

**Analysis Date/Time:** 11/14/2023 1852 (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)	-	58.5	92.6	200
Cadmium (Cd)	-	58.5	92.6	200
Lead (Pb)	-	58.5	92.6	500
Mercury (Hg)	-	58.5	92.6	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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 Kyle W. Felling, Ph.D.  
 Laboratory Director



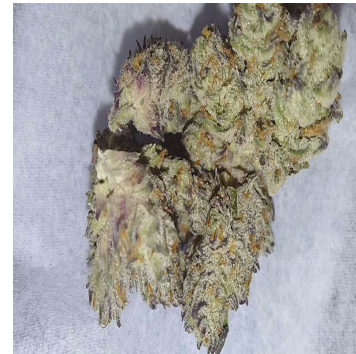
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**MICROBIOLOGICAL PROFILE (SOP: SOP-Micro-001)**

**Analysis Date/Time:** 11/15/2023 0948      **Method:** Hardy Diagnostics CompactDry      **Deviations from SOP:**  
**Analyst:** PW      **Instrument:** Thermo Incubator      None

<u>Bacteria/Microbe</u>	<u>Result (CFU/g)</u>	<u>Action Level (CFU/g)</u>
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

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