

SUMMARY OF ANALYSIS (SAMPLE ID: SA40928)

Testing Location:	Customer ID: 2161	Order ID: OR11570	Sample Type: Primary
Arkansas	River Valley Relief Cultivation	Lot Number:	Matrix: Flower
232 S. Broadview St.	5601 Old Greenwood Rd Suite C	M00065C13138912370	Mass: 17g
Greenbrier, AR 72058	Fort Smith, AR 72903	Production Run:	Date Collected: 04/28/2025
License: ADH 113	License: 00065C	2093H20250312HSP-7	Date Received: 04/28/2025
Cultivar (Strain) or Sample Description: Halloween Special			Date Completed: 04/30/2025

*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.

*Where provided, statements of conformity (e.g. Pass/Fail) are made in accordance with ILAC G8, Binary Statement for Simple Acceptance Rule (w=0, AL=TL).
PASS: when the result is within the acceptance interval. FAIL: when the result is outside the acceptance interval

Moisture Content (%)

11.3

Water Activity (aw)

0.429 @ 24.2°C

PASS/FAIL

PASS

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

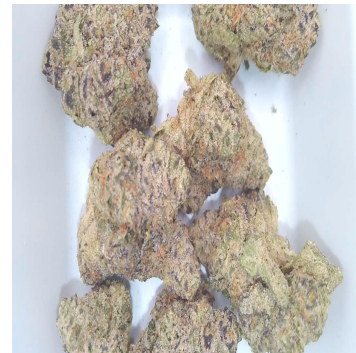
Moisture content levels less than 15% are recommended but the sample does not fail. Water activity levels must be less than 0.65aw.

Cannabinoids (Top 3)	(%)	mg/g
THCA	28.2	282
Δ9-THC	1.43	14.3
CBGA	0.638	6.38
TOTAL CBD	0.000	0.000
TOTAL THC	26.2	262
TOTAL CANNABINOIDS	30.6	306

Terpenes (Top 5)	(%)	ppm
d-Limonene	1.13	11300
Linalool	0.771	7710
β-Caryophyllene	0.726	7260
β-Myrcene	0.367	3670
α-Humulene	0.281	2810
TOTAL TERPENES	4.10	41000

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



CERTIFICATE OF ANALYSIS (SAMPLE ID: SA40928)

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

Analysis Date/Time: 04/29/2025 1629

Method: HPLC/DAD

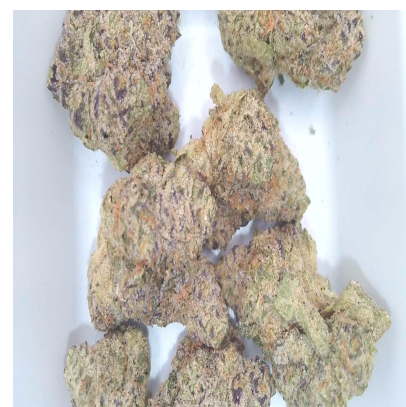
Moisture Content (%): 11.3

Analyst: PW

Instrument: Agilent 1100

Water Activity (aw): 0.429 @ 24.2°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	0.0443	0.103	-	0.000	0.000
CBCA	ND	ND	0.137	0.321	-	0.000	0.000
CBD	ND	ND	0.312	0.729	-	0.000	0.000
CBDA	DET	DET	0.115	0.268	-	0.000	0.000
CBDV	ND	ND	0.0501	0.117	-	0.000	0.000
CBDVA	ND	ND	0.134	0.312	-	0.000	0.000
CBG	0.134	1.34	0.203	0.473	-	1.19	1.19
CBGA	0.638	6.38	0.287	0.339	-	5.66	5.66
CBL	ND	ND	0.234	0.547	-	0.000	0.000
CBN	ND	ND	0.108	0.251	-	0.000	0.000
CBNA	ND	ND	0.116	0.271	-	0.000	0.000
Δ9-THC	1.43	14.3	0.129	0.300	-	12.7	12.7
Δ8-THC	ND	ND	0.201	0.469	-	0.000	0.000
THCA	28.2	282	0.0699	0.163	-	250	250
THCV	ND	ND	0.168	0.391	-	0.000	0.000
THCVA	0.130	1.30	0.0536	0.125	-	1.15	1.15
TOTAL	30.6	306			-	271	271
TOTAL CBC	0.000	0.000			-	0.000	0.000
TOTAL CBD	0.000	0.000			-	0.000	0.000
TOTAL CBDV	0.000	0.000			-	0.000	0.000
TOTAL CBG	0.694	6.94			-	6.16	6.16
TOTAL CBN	0.000	0.000			-	0.000	0.000
TOTAL THC	26.2	262			-	232	232
TOTAL THCV	0.112	1.12			-	0.997	0.997



SERVING MASS (g): 1.00
SERVINGS/UNIT: 1

"-" Not reported for this sample.

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.

Dry percent = Wet percent / (1 - (Moisture Content / 100))

Total CBC = (CBCA x 0.877) + CBC
Total CBD = (CBDA 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) + THCV

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, ND - Not Detected (less than LOD)

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Kyle W. Felling, Ph.D.
Laboratory Director



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TERPENOID PROFILE

Analysis Date/Time: 04/29/2025 1844

Method: GC/MS

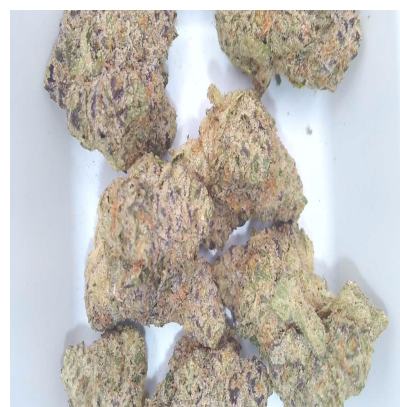
Deviations from SOP:

Analyst: KF

Instrument: Agilent 7890/5975

None

<u>Terpene</u>	<u>Result (ppm)</u>	<u>Result (%)</u>	
α-Bisabolol	729	0.0729	
Camphene	320	0.0320	
δ-3-Carene	ND	-	
β-Caryophyllene	7260	0.726	
Caryophyllene oxide	76.5	0.00765	
p-Cymene	48.7	0.00487	
Eucalyptol	<LOQ	-	
Geraniol	158	0.0158	
Guaiol	ND	-	
α-Humulene	2810	0.281	
Isopulegol	<LOQ	-	
d-Limonene	11300	1.13	
Linalool	7710	0.771	
β-Myrcene	3670	0.367	
cis-Nerolidol	ND	-	
trans-Nerolidol	2030	0.203	
α-Ocimene	122	0.0122	
β-Ocimene	318	0.0318	
α-Pinene	2040	0.204	
β-Pinene	2290	0.229	
α-Terpinene	ND	-	
γ-Terpinene	ND	-	
Terpinolene	132	0.0132	
TOTAL	41000	4.10	



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 (ppm): 48.5

"-" Not detected above LOD.

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Laboratory Director



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Cultivar (Strain) or Sample Description: Halloween Special

Date Completed: 04/30/2025

PESTICIDES PROFILE (SOP: SOP-PEST-001)

Analysis Date/Time: 04/29/2025 1725

Method: LC/MS/MS

Deviations from SOP:

Analyst: KF

Instrument: Shimadzu LC-8050

None

Pesticide	Result (ppm)	LOD (ppm)	LOQ (ppm)	Action Level (ppm)	Pesticide	Result (ppm)	LOD (ppm)	LOQ (ppm)	Action Level (ppm)
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
Acetaminophen (57960-19-7)	-	0.0482	0.386	2	Metalaxyl (57837-19-1)	-	0.0482	0.386	0.2
Acetamiprid (135410-20-7)	-	0.0482	0.386	0.2	Methiocarb (2032-65-7)	-	0.0482	0.386	0.2
Aldicarb (116-06-3)	-	0.0482	0.386	0.4	Methomyl (16752-77-5)	-	0.0482	0.386	0.4
Azoxystrobin (131860-33-8)	-	0.0482	0.386	0.2	Methyl parathion (298-0-0)	-	0.0482	0.386	0.2
Bifenazate (149877-41-8)	-	0.0482	0.386	0.2	MGK 264 (113-48-4)	-	0.0482	0.386	0.2
Bifenthrin (82657-04-3)	-	0.0482	0.386	0.2	Myclobutanil (88671-89-0)	-	0.0482	0.386	0.2
Boscalid (188425-85-6)	-	0.0482	0.386	0.4	Naled (300-76-5)	-	0.0482	0.386	0.5
Carbaryl (63-25-2)	-	0.0482	0.386	0.2	Oxamyl (23135-22-0)	-	0.0482	0.386	1
Carbofuran (1563-66-2)	-	0.0482	0.386	0.2	Paclobutrazol (76738-62-0)	-	0.0482	0.386	0.4
Chlorantraniliprole (800008-45-7)	-	0.0482	0.386	0.2	Permethrins (52645-53-1)	-	0.0482	0.386	0.2
Chlorfenapyr (122453-73-0)	-	0.0482	0.386	1	Phosmet (732-11-6)	-	0.0482	0.386	0.2
Chlorpyrifos (2921-88-2)	-	0.0482	0.386	0.2	Piperonyl butoxide (51-03-6)	-	0.0482	0.386	2
Clofentezine (74115-24-5)	-	0.0482	0.386	0.2	Prallethrin (2331-36-9)	-	0.0482	0.386	0.2
Cyfluthrin (68359-37-5)	-	0.0482	0.386	1	Propiconazole (60207-90-1)	-	0.0482	0.386	0.4
Cypermethrin (52315-07-8)	-	0.0482	0.386	1	Propoxur (114-26-1)	-	0.0482	0.386	0.2
Daminozide (1596-84-5)	-	0.0482	0.386	1	Pyrethrins (8003-34-7)	-	0.0482	0.386	1
DDVP (62-73-7)	-	0.0482	0.386	0.1	Pyridaben (96489-71-3)	-	0.0482	0.386	0.2
Diazinon (333-41-5)	-	0.0482	0.386	0.2	Spinosad (168316-95-8)	-	0.0482	0.386	0.2
Dimethoate (60-51-5)	-	0.0482	0.386	0.2	Spiromesifen (283594-90-1)	-	0.0482	0.386	0.2
Ethoprophos (13194-48-4)	-	0.0482	0.386	0.2	Spirotetramat (203313-25-1)	-	0.0482	0.386	0.2
Etofenprox (80844-07-1)	-	0.0482	0.386	0.4	Spiroxamine (118134-30-8)	-	0.0482	0.386	0.4
Etoxazole (153233-91-1)	-	0.0482	0.386	0.2	Tebuconazole (80443-41-0)	-	0.0482	0.386	0.4
Fenoxycarb (72490-01-8)	-	0.0482	0.386	0.2	Thiacloprid (111988-49-9)	-	0.0482	0.386	0.2
(E)-Fenpyroximate (134098-61-6)	-	0.0482	0.386	0.4	Thiamethoxam (153719-23-4)	-	0.0482	0.386	0.2
Fipronil (120068-37-3)	-	0.0482	0.386	0.4	Trifloxystrobin (141517-21-7)	-	0.0482	0.386	0.2
Flonicamid (158062-67-0)	-	0.0482	0.386	1					
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	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: 04/29/2025 1741	Method: ICP/MS Instrument: Agilent 7700x	Deviations from SOP: None
Analyst: KF		

Heavy Metal	Result (ppb)	LOD (ppb)	LOQ (ppb)	Action Level (ppb)
Arsenic (As)	ND	59.3	93.8	200
Cadmium (Cd)	ND	59.3	93.8	200
Lead (Pb)	DET	59.3	93.8	500
Mercury (Hg)	ND	59.3	93.8	100



Abbreviations: ICP - Inductively-Coupled Plasma, MS - Mass Spectrometry,
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

"ND" not detected above LOD

Reporting limit is 1/2 the action level of each analyte.

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: 04/29/2025 1435	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

RESULT > AL

Reporting Limit (CFU/g)

1

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