

SUMMARY OF ANALYSIS (SAMPLE ID: SA39728)

Testing Location:	Customer ID: 2161	Order ID: OR11352	Sample Type: Primary
Arkansas	River Valley Relief Cultivation	Lot Number:	Matrix: Flower
232 S. Broadview St.	5601 Old Greenwood Rd Suite C	M00065C13134877425	Mass: 23g
Greenbrier, AR 72058	Fort Smith, AR 72903	Production Run:	Date Collected: 12/23/2024
License: ADH 113	License: 00065C	5082H20241121SDO-1	Date Received: 12/24/2024
Cultivar (Strain) or Sample Description: Sourdough			Date Completed: 12/27/2024

*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 (%)

13.9

Water Activity (aw)

0.456 @ 24.6°C

PASS/FAIL

PASS

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

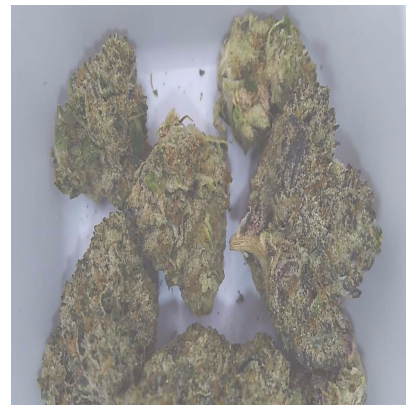
Moisture content levels less than 15% are recommended but the sample does not fail. Water activity levels must be less than 0.65aw.

Cannabinoids (Top 3)	(%)	mg/g
THCA	30.2	302
CBGA	2.45	24.5
Δ9-THC	1.20	12.0
TOTAL CBD	0.000	0.000
TOTAL THC	27.6	276
TOTAL CANNABINOIDS	34.3	343

Terpenes (Top 5)	(%)	µg/g
β-Caryophyllene	1.13	11300
α-Humulene	0.531	5310
d-Limonene	0.474	4740
Linalool	0.186	1860
β-Myrcene	0.182	1820
TOTAL TERPENES	3.06	30600

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: 12/26/2024 1650

Method: HPLC/DAD

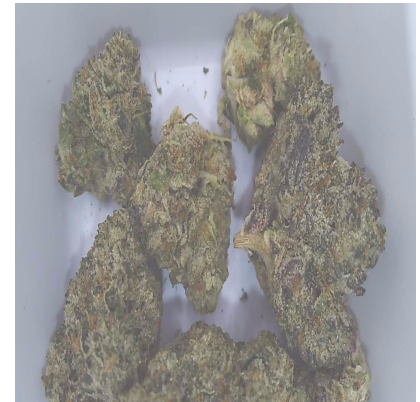
Moisture Content (%): 13.9

Analyst: PW

Instrument: Agilent 1100

Water Activity (aw): 0.456 @ 24.6°C

Cannabinoid	Result (%)	Result (mg/g)	LOD (mg/g)	LOQ (mg/g)	Result (mg/mL)	Per Serving (mg)	Per Unit (mg)
CBC	ND	ND	0.0357	0.0833	-	0.000	0.000
CBCA	ND	ND	0.111	0.259	-	0.000	0.000
CBD	ND	ND	0.252	0.588	-	0.000	0.000
CBDV	ND	ND	0.0927	0.216	-	0.000	0.000
CBDVA	ND	ND	0.0404	0.0943	-	0.000	0.000
CBDVA	ND	ND	0.108	0.251	-	0.000	0.000
CBG	0.224	2.24	0.163	0.382	-	1.93	1.93
CBGA	2.45	24.5	0.232	0.273	-	21.1	21.1
CBL	ND	ND	0.189	0.441	-	0.000	0.000
CBN	ND	ND	0.0868	0.203	-	0.000	0.000
CBNA	ND	ND	0.0936	0.218	-	0.000	0.000
CBT	ND	ND	0.136	0.317	-	0.000	0.000
Δ9-THC	1.20	12.0	0.104	0.242	-	10.3	10.3
Δ8-THC	ND	ND	0.162	0.379	-	0.000	0.000
THCA	30.2	302	0.0564	0.132	-	260	260
THCV	ND	ND	0.135	0.315	-	0.000	0.000
THCVA	0.140	1.40	0.0432	0.101	-	1.21	1.21
TOTAL	34.3	343			-	295	295
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	2.38	23.8			-	20.5	20.5
TOTAL CBN	0.000	0.000			-	0.000	0.000
TOTAL THC	27.6	276			-	238	238
TOTAL THCV	0.122	1.22			-	1.05	1.05



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.

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) + 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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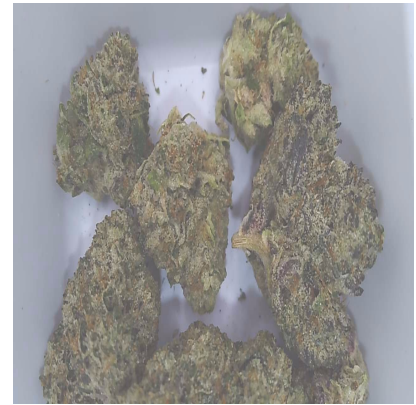
TERPENOID PROFILE

Analysis Date/Time: 12/27/2024 0016
Analyst: KF

Method: GC/MS
Instrument: Agilent 7890/5975

Deviations from SOP:
None

Terpene	Result (µg/g)	Result (%)	
α-Bisabolol	657	0.0657	
Camphene	230	0.0230	
δ-3-Carene	46.0	0.00460	
β-Caryophyllene	11300	1.13	
Caryophyllene oxide	155	0.0155	
p-Cymene	ND	-	
Eucalyptol	ND	-	
Geraniol	ND	-	
Guaiol	ND	-	
α-Humulene	5310	0.531	
Isopulegol	194	0.0194	
d-Limonene	4740	0.474	
Linalool	1860	0.186	
β-Myrcene	1820	0.182	
cis-Nerolidol	ND	-	
trans-Nerolidol	1020	0.102	
α-Ocimene	114	0.0114	
β-Ocimene	479	0.0479	
α-Pinene	1210	0.121	
β-Pinene	1170	0.117	
α-Terpinene	81.4	0.00814	
γ-Terpinene	53.5	0.00535	
Terpinolene	175	0.0175	
TOTAL	30600	3.06	



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): 39.1

"-" Not detected above LOD.

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PESTICIDES PROFILE (SOP: SOP-PEST-001)

Analysis Date/Time: 12/26/2024 1635

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)	-	0.0387	0.309	0.5	Kresoxim-methyl (143390-89-0)	-	0.0387	0.309	0.4
Acephate (30560-19-1)	-	0.0387	0.309	0.4	Malathion (121-75-5)	-	0.0387	0.309	0.2
Acetaminophen (57960-19-7)	-	0.0387	0.309	2	Metalaxyl (57837-19-1)	-	0.0387	0.309	0.2
Acetamiprid (135410-20-7)	-	0.0387	0.309	0.2	Methiocarb (2032-65-7)	-	0.0387	0.309	0.2
Aldicarb (116-06-3)	-	0.0387	0.309	0.4	Methomyl (16752-77-5)	-	0.0387	0.309	0.4
Azoxystrobin (131860-33-8)	-	0.0387	0.309	0.2	Methyl parathion (298-0-0)	-	0.0387	0.309	0.2
Bifenazate (149877-41-8)	-	0.0387	0.309	0.2	MGK 264 (113-48-4)	-	0.0387	0.309	0.2
Bifenthrin (82657-04-3)	-	0.0387	0.309	0.2	Myclobutanil (88671-89-0)	-	0.0387	0.309	0.2
Boscalid (188425-85-6)	-	0.0387	0.309	0.4	Naled (300-76-5)	-	0.0387	0.309	0.5
Carbaryl (63-25-2)	-	0.0387	0.309	0.2	Oxamyl (23135-22-0)	-	0.0387	0.309	1
Carbofuran (1563-66-2)	-	0.0387	0.309	0.2	Paclobutrazol (76738-62-0)	-	0.0387	0.309	0.4
Chlorantraniliprole (800008-45-7)	-	0.0387	0.309	0.2	Permethrins (52645-53-1)	-	0.0387	0.309	0.2
Chlorfenapyr (122453-73-0)	-	0.0387	0.309	1	Phosmet (732-11-6)	-	0.0387	0.309	0.2
Chlorpyrifos (2921-88-2)	-	0.0387	0.309	0.2	Piperonyl butoxide (51-03-6)	-	0.0387	0.309	2
Clofentezine (74115-24-5)	-	0.0387	0.309	0.2	Prallethrin (2331-36-9)	-	0.0387	0.309	0.2
Cyfluthrin (68359-37-5)	-	0.0387	0.309	1	Propiconazole (60207-90-1)	-	0.0387	0.309	0.4
Cypermethrin (52315-07-8)	-	0.0387	0.309	1	Propoxur (114-26-1)	-	0.0387	0.309	0.2
Daminozide (1596-84-5)	-	0.0387	0.309	1	Pyrethrins (8003-34-7)	-	0.0387	0.309	1
DDVP (62-73-7)	-	0.0387	0.309	0.1	Pyridaben (96489-71-3)	-	0.0387	0.309	0.2
Diazinon (333-41-5)	-	0.0387	0.309	0.2	Spinosad (168316-95-8)	-	0.0387	0.309	0.2
Dimethoate (60-51-5)	-	0.0387	0.309	0.2	Spiromesifen (283594-90-1)	-	0.0387	0.309	0.2
Ethoprophos (13194-48-4)	-	0.0387	0.309	0.2	Spirotetramat (203313-25-1)	-	0.0387	0.309	0.2
Etofenprox (80844-07-1)	-	0.0387	0.309	0.4	Spiroxamine (118134-30-8)	-	0.0387	0.309	0.4
Etoxazole (153233-91-1)	-	0.0387	0.309	0.2	Tebuconazole (80443-41-0)	-	0.0387	0.309	0.4
Fenoxycarb (72490-01-8)	-	0.0387	0.309	0.2	Thiacloprid (111988-49-9)	-	0.0387	0.309	0.2
(E)-Fenpyroximate (134098-61-6)	-	0.0387	0.309	0.4	Thiamethoxam (153719-23-4)	-	0.0387	0.309	0.2
Fipronil (120068-37-3)	-	0.0387	0.309	0.4	Trifloxystrobin (141517-21-7)	-	0.0387	0.309	0.2
Flonicamid (158062-67-0)	-	0.0387	0.309	1					
Fludioxinil (131341-86-1)	-	0.0387	0.309	0.4					
Hexythiazox (78587-05-0)	-	0.0387	0.309	1					
Imazalil (35554-44-0)	-	0.0387	0.309	0.2					
Imidacloprid (138261-41-3)	-	0.0387	0.309	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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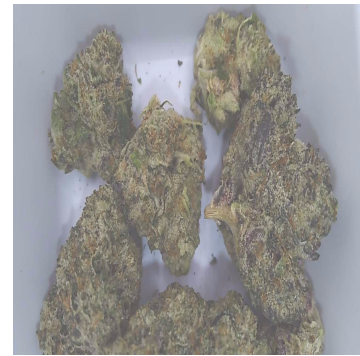
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HEAVY METAL PROFILE (SOP: SOP-ICP-200.6)

Analysis Date/Time: 12/26/2024 1610	Method: ICP/MS	Deviations from SOP:
	Instrument: Agilent 7500ce	None
Analyst: KF		

Heavy Metal	Result (µg/kg)	LOD (µg/kg)	LOQ (µg/kg)	Action Level (µg/kg)
Arsenic (As)	-	58.4	92.4	200
Cadmium (Cd)	-	58.4	92.4	200
Lead (Pb)	-	58.4	92.4	500
Mercury (Hg)	-	58.4	92.4	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

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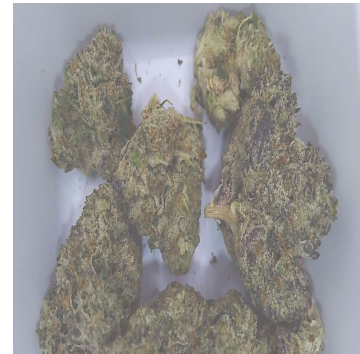
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MICROBIOLOGICAL PROFILE (SOP: SOP-Micro-001)

Analysis Date/Time: 12/27/2024 0748	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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