

SUMMARY OF ANALYSIS (SAMPLE ID: SA32477)

Testing Location:	Customer ID: 2161	Order ID: OR10043	Sample Type: Primary
Arkansas	River Valley Relief Cultivation	Lot Number:	Matrix: Flower
232 S. Broadview St.	5601 Old Greenwood Rd Suite C	M00065C13138465456	Mass: 23.00g
Greenbrier, AR 72058	Fort Smith, AR 72903	Production Run:	Date Collected: 09/21/2022
License: ADH 113	License: 00065C	1008H20220812FSO2	Date Received: 09/22/2022
Cultivar (Strain) or Sample Description: Fatso			Date Completed: 09/25/2022

*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 (%)

12.3

Water Activity (aw)

0.549 @ 23.7°C

PASS/FAIL

PASS

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

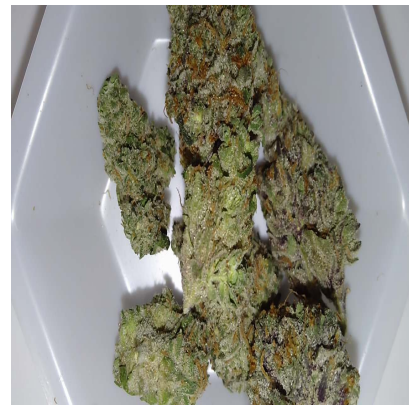
Moisture content levels less than 15% are recommended but the sample does not fail. Water activity levels must be less than 0.65aw.

Cannabinoids (Top 3)	(%)	mg/g
THCA	21.2	212
CBGA	1.36	13.6
CBG	0.0995	0.995
TOTAL CBD	-	-
TOTAL THC	18.6	186
TOTAL CANNABINOIDS	22.7	227

Terpenes (Top 5)	(%)	µg/g
d-Limonene	0.459	4590
β-Caryophyllene	0.213	2130
Linalool	0.195	1950
β-Myrcene	0.105	1050
β-Pinene	0.105	1050
TOTAL TERPENES	1.44	14400

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: 9/23/2022 1826

Method: HPLC/DAD

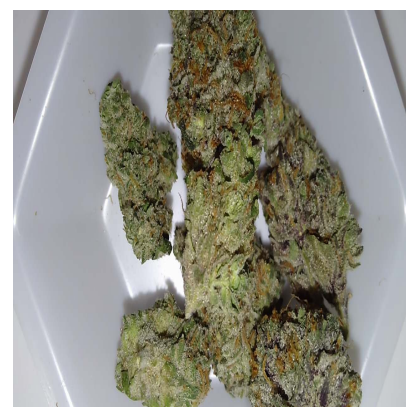
Moisture Content (%): 12.3

Analyst: PW

Instrument: Agilent 1100

Water Activity (aw): 0.549 @ 23.69°C

<u>Cannabinoid</u>	<u>Result</u> (%)	<u>UM</u> (+/-%)	<u>Result</u> (mg/g)	<u>LOQ</u> (mg/g)	<u>Result</u> (mg/mL)	<u>Per</u> <u>Serving</u> (mg)	<u>Per</u> <u>Unit</u> (mg)
CBC	-	-	-	0.185	-	-	-
CBCA	-	-	-	0.185	-	-	-
CBD	-	-	-	0.185	-	-	-
CBDA	-	-	-	0.185	-	-	-
CBDV	-	-	-	0.185	-	-	-
CBDVA	-	-	-	0.185	-	-	-
CBG	0.0995	0.0129	0.995	0.185	-	0.995	0.995
CBGA	1.36	0.149	13.6	0.185	-	13.6	13.6
CBL	-	-	-	0.185	-	-	-
CBN	-	-	-	0.185	-	-	-
CBNA	-	-	-	0.185	-	-	-
Δ9-THC	-	-	-	0.185	-	-	-
Δ8-THC	-	-	-	0.185	-	-	-
THCA	21.2	2.12	212	0.185	-	212	212
THCV	-	-	-	0.185	-	-	-
THCVA	0.0606	0.00303	0.606	0.185	-	0.606	0.606
TOTAL	22.7	2.29	227		-	227	227
TOTAL CBC	-	-	-		-	-	-
TOTAL CBD	-	-	-		-	-	-
TOTAL CBDV	-	-	-		-	-	-
TOTAL CBG	1.29	0.144	12.9		-	12.9	12.9
TOTAL CBN	-	-	-		-	-	-
TOTAL THC	18.6	1.86	186		-	186	186
TOTAL THC V	0.0526	0.00263	0.526		-	0.526	0.526



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 = (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 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.

* CBCA, CBDVA, CBL, CBNA, and THCVA are in process of being added to our accreditation scope.

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: Fatso			Date Completed: 09/25/2022

TERPENOID PROFILE

Analysis Date/Time: 09/24/2022 1202

Analyst: KF

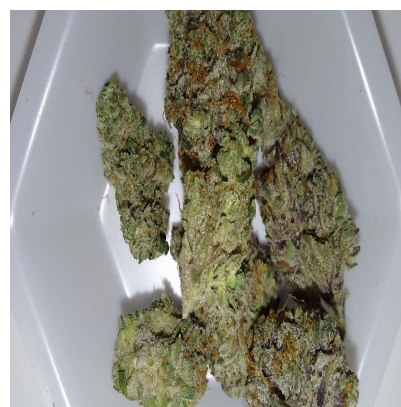
Method: GC/MS

Instrument: Agilent 7890/5975

Deviations from SOP:

None

Terpene	Result (µg/g)	Result (%)	
α-Bisabolol	566	0.0566	
Camphene	158	0.0158	
δ-3-Carene	-	-	
β-Caryophyllene	2130	0.213	
Caryophyllene oxide	117	0.0117	
p-Cymene	-	-	
Eucalyptol	-	-	
Geraniol	313	0.0313	
Guaiol	-	-	
α-Humulene	691	0.0691	
Isopulegol	-	-	
d-Limonene	4590	0.459	
Linalool	1950	0.195	
β-Myrcene	1050	0.105	
cis-Nerolidol	395	0.0395	
trans-Nerolidol	237	0.0237	
α-Ocimene	363	0.0363	
β-Ocimene	-	-	
α-Pinene	750	0.0750	
β-Pinene	1050	0.105	
α-Terpinene	-	-	
γ-Terpinene	-	-	
Terpinolene	77.4	0.00774	
TOTAL	14400	1.44	



Abbreviations: GC - Gas Chromatography, MS - Mass Spectrometry, RL - Reporting Limit

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"-" Not detected above RL.

Reporting Limit (µg/g): 19.9

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PESTICIDES PROFILE (SOP: SOP-PEST-001)

Analysis Date/Time: 09/23/2022 1951

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)	-	0.0199	0.160	0.5	Kresoxim-methyl (143390-89-0)	-	0.0199	0.160	0.4
Acephate (30560-19-1)	-	0.0199	0.160	0.4	Malathion (121-75-5)	-	0.0199	0.160	0.2
Acetaminophen (57960-19-7)	-	0.0199	0.160	2	Metalaxyl (57837-19-1)	-	0.0199	0.160	0.2
Acetamiprid (135410-20-7)	-	0.0199	0.160	0.2	Methiocarb (2032-65-7)	-	0.0199	0.160	0.2
Aldicarb (116-06-3)	-	0.0199	0.160	0.4	Methomyl (16752-77-5)	-	0.0199	0.160	0.4
Azoxystrobin (131860-33-8)	-	0.0199	0.160	0.2	Methyl parathion (298-0-0)	-	0.0199	0.160	0.2
Bifenazate (149877-41-8)	-	0.0199	0.160	0.2	MGK 264 (113-48-4)	-	0.0199	0.160	0.2
Bifenthrin (82657-04-3)	-	0.0199	0.160	0.2	Myclobutanil (88671-89-0)	-	0.0199	0.160	0.2
Boscalid (188425-85-6)	-	0.0199	0.160	0.4	Naled (300-76-5)	-	0.0199	0.160	0.5
Carbaryl (63-25-2)	-	0.0199	0.160	0.2	Oxamyl (23135-22-0)	-	0.0199	0.160	1
Carbofuran (1563-66-2)	-	0.0199	0.160	0.2	Paclobutrazol (76738-62-0)	-	0.0199	0.160	0.4
Chlorantraniliprole (800008-45-7)	-	0.0199	0.160	0.2	Permethrins (52645-53-1)	-	0.0199	0.160	0.2
Chlorfenapyr (122453-73-0)	-	0.0199	0.160	1	Phosmet (732-11-6)	-	0.0199	0.160	0.2
Chlorpyrifos (2921-88-2)	-	0.0199	0.160	0.2	Piperonyl butoxide (51-03-6)	-	0.0199	0.160	2
Clofentezine (74115-24-5)	-	0.0199	0.160	0.2	Prallethrin (2331-36-9)	-	0.0199	0.160	0.2
Cyfluthrin (68359-37-5)	-	0.0199	0.160	1	Propiconazole (60207-90-1)	-	0.0199	0.160	0.4
Cypermethrin (52315-07-8)	-	0.0199	0.160	1	Propoxur (114-26-1)	-	0.0199	0.160	0.2
Daminozide (1596-84-5)	-	0.0199	0.160	1	Pyrethrins (8003-34-7)	-	0.0199	0.160	1
DDVP (62-73-7)	-	0.0199	0.160	0.1	Pyridaben (96489-71-3)	-	0.0199	0.160	0.2
Diazinon (333-41-5)	-	0.0199	0.160	0.2	Spinosad (168316-95-8)	-	0.0199	0.160	0.2
Dimethoate (60-51-5)	-	0.0199	0.160	0.2	Spiromesifen (283594-90-1)	-	0.0199	0.160	0.2
Ethoprophos (13194-48-4)	-	0.0199	0.160	0.2	Spirotetramat (203313-25-1)	-	0.0199	0.160	0.2
Etofenprox (80844-07-1)	-	0.0199	0.160	0.4	Spiroxamine (118134-30-8)	-	0.0199	0.160	0.4
Etiozazole (153233-91-1)	-	0.0199	0.160	0.2	Tebuconazole (80443-41-0)	-	0.0199	0.160	0.4
Fenoxycarb (72490-01-8)	-	0.0199	0.160	0.2	Thiacloprid (111988-49-9)	-	0.0199	0.160	0.2
(E)-Fenpyroximate (134098-61-6)	-	0.0199	0.160	0.4	Thiamethoxam (153719-23-4)	-	0.0199	0.160	0.2
Fipronil (120068-37-3)	-	0.0199	0.160	0.4	Trifloxystrobin (141517-21-7)	-	0.0199	0.160	0.2
Flonicamid (158062-67-0)	-	0.0199	0.160	1					
Fludioxinil (131341-86-1)	-	0.0199	0.160	0.4					
Hexythiazox (78587-05-0)	-	0.0199	0.160	1					
Imazalil (35554-44-0)	-	0.0199	0.160	0.2					
Imidacloprid (138261-41-3)	-	0.0199	0.160	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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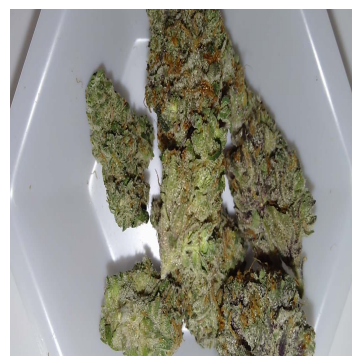
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HEAVY METAL PROFILE (SOP: SOP-ICP-200.7)

Analysis Date/Time: 09/23/2022 0707 (ICP/OES)	Method: ICP/OES	Deviations from SOP:
Analysis Date/Time: - (DMA)	Instrument: Agilent 720-ES	None
Analyst: KF		

<u>Heavy Metal</u>	<u>Result</u> (µg/kg)	<u>LOD</u> (µg/kg)	<u>LOQ</u> (µg/kg)	<u>Action Level</u> (µg/kg)
Arsenic (As)	-	58.4	92.5	200
Cadmium (Cd)	-	58.4	92.5	200
Lead (Pb)	-	58.4	92.5	500
Mercury (Hg)	-	58.4	92.5	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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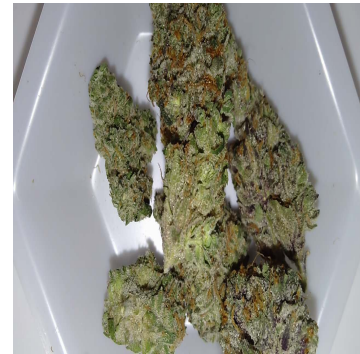
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MICROBIOLOGICAL PROFILE (SOP: SOP-Micro-001)

Analysis Date/Time: 20220923 1310	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	1
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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