

**SUMMARY OF ANALYSIS (SAMPLE ID: SA34418)**

<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> OR10306 <b>Lot Number:</b> M00065C13133735833 <b>Production Run:</b> 1022H20221228FSO-1	<b>Sample Type:</b> Primary <b>Matrix:</b> Flower <b>Mass:</b> 23g <b>Date Collected:</b> 02/13/2023 <b>Date Received:</b> 02/13/2023 <b>Date Completed:</b> 02/17/2023
<b>Cultivar (Strain) or Sample Description:</b> Fatso			

\*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 (%)**

11.1

**Water Activity (aw)**

0.471 @ 24.5°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	26.4	264
CBGA	0.726	7.26
THCVA	0.110	1.10
TOTAL CBD	-	-
TOTAL THC	23.2	232
TOTAL CANNABINOIDS	27.3	273

<b>Terpenes (Top 5)</b>	<b>(%)</b>	<b>µg/g</b>
d-Limonene	0.464	4640
β-Caryophyllene	0.302	3020
β-Myrcene	0.137	1370
α-Humulene	0.134	1340
β-Pinene	0.0976	976
TOTAL TERPENES	1.43	14300

<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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<b>Cultivar (Strain) or Sample Description:</b> Fatso			<b>Date Completed:</b> 02/17/2023

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

**Analysis Date/Time:** 2/16/2023 1708      **Method:** HPLC/DAD      **Moisture Content (%):** 11.1  
**Analyst:** PW      **Instrument:** Agilent 1100      **Water Activity (aw):** 0.471 @ 24.49°C

<u>Cannabinoid</u>	<u>Result (%)</u>	<u>UM (+/-%)</u>	<u>Result (mg/g)</u>	<u>LOQ (mg/g)</u>	<u>Result (mg/mL)</u>	<u>Per Serving (mg)</u>	<u>Per Unit (mg)</u>
CBC	-	-	-	0.494	-	-	-
CBCA	-	-	-	1.53	-	-	-
CBD	-	-	-	3.48	-	-	-
CBDA	-	-	-	1.28	-	-	-
CBDV	-	-	-	0.558	-	-	-
CBDVA	-	-	-	1.49	-	-	-
CBG	DET	-	DET	2.26	-	-	-
CBGA	0.726	0.0653	7.26	1.62	-	7.26	7.26
CBL	DET	-	DET	2.61	-	-	-
CBN	-	-	-	1.20	-	-	-
CBNA	-	-	-	1.29	-	-	-
Δ9-THC	DET	-	DET	1.44	-	-	-
Δ8-THC	-	-	-	2.24	-	-	-
THCA	26.4	2.38	264	0.781	-	264	264
THCV	-	-	-	1.87	-	-	-
THCVA	0.110	0.00329	1.10	0.596	-	1.10	1.10
<b>TOTAL</b>	<b>27.3</b>	<b>2.45</b>	<b>273</b>			<b>273</b>	<b>273</b>
<b>TOTAL CBC</b>	-	-	-			-	-
<b>TOTAL CBD</b>	-	-	-			-	-
<b>TOTAL CBDV</b>	-	-	-			-	-
<b>TOTAL CBG</b>	0.638	0.0574	6.38			6.38	6.38
<b>TOTAL CBN</b>	-	-	-			-	-
<b>TOTAL THC</b>	23.2	2.09	232			232	232
<b>TOTAL THC V</b>	0.0951	0.00285	0.951			0.951	0.951



**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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<b>Cultivar (Strain) or Sample Description:</b> Fatso			<b>Date Completed:</b> 02/17/2023

**TERPENOID PROFILE**

**Analysis Date/Time:** 02/17/2023 1143  
**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	722	0.0722	
Camphene	330	0.0330	
δ-3-Carene	-	-	
β-Caryophyllene	3020	0.302	
Caryophyllene oxide	-	-	
p-Cymene	-	-	
Eucalyptol	-	-	
Geraniol	-	-	
Guaiol	-	-	
α-Humulene	1340	0.134	
Isopulegol	-	-	
d-Limonene	4640	0.464	
Linalool	645	0.0645	
β-Myrcene	1370	0.137	
cis-Nerolidol	-	-	
trans-Nerolidol	363	0.0363	
α-Ocimene	-	-	
β-Ocimene	-	-	
α-Pinene	583	0.0583	
β-Pinene	976	0.0976	
α-Terpinene	-	-	
γ-Terpinene	-	-	
Terpinolene	317	0.0317	
<b>TOTAL</b>	<b>14300</b>	<b>1.43</b>	



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

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"-" Not detected above RL.

**Reporting Limit (µg/g): 43.3**

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



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

**Analysis Date/Time:** 02/17/2023 1034  
**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)	-	0.0433	0.346	0.5	Kresoxim-methyl (143390-89-0)	-	0.0433	0.346	0.4
Acephate (30560-19-1)	-	0.0433	0.346	0.4	Malathion (121-75-5)	-	0.0433	0.346	0.2
Acetaminocyl (57960-19-7)	-	0.0433	0.346	2	Metalaxyl (57837-19-1)	-	0.0433	0.346	0.2
Acetamiprid (135410-20-7)	-	0.0433	0.346	0.2	Methiocarb (2032-65-7)	-	0.0433	0.346	0.2
Aldicarb (116-06-3)	-	0.0433	0.346	0.4	Methomyl (16752-77-5)	-	0.0433	0.346	0.4
Azoxystrobin (131860-33-8)	-	0.0433	0.346	0.2	Methyl parathion (298-0-0)	-	0.0433	0.346	0.2
Bifenazate (149877-41-8)	-	0.0433	0.346	0.2	MGK 264 (113-48-4)	-	0.0433	0.346	0.2
Bifenthrin (82657-04-3)	-	0.0433	0.346	0.2	Myclobutanil (88671-89-0)	-	0.0433	0.346	0.2
Boscalid (188425-85-6)	-	0.0433	0.346	0.4	Naled (300-76-5)	-	0.0433	0.346	0.5
Carbaryl (63-25-2)	-	0.0433	0.346	0.2	Oxamyl (23135-22-0)	-	0.0433	0.346	1
Carbofuran (1563-66-2)	-	0.0433	0.346	0.2	Pacllobutrazol (76738-62-0)	-	0.0433	0.346	0.4
Chlorantraniliprole (800008-45-7)	-	0.0433	0.346	0.2	Permethrins (52645-53-1)	-	0.0433	0.346	0.2
Chlorfenapyr (122453-73-0)	-	0.0433	0.346	1	Phosmet (732-11-6)	-	0.0433	0.346	0.2
Chlorpyrifos (2921-88-2)	-	0.0433	0.346	0.2	Piperonyl butoxide (51-03-6)	-	0.0433	0.346	2
Clofentezine (74115-24-5)	-	0.0433	0.346	0.2	Prallethrins (2331-36-9)	-	0.0433	0.346	0.2
Cyfluthrin (68359-37-5)	-	0.0433	0.346	1	Propiconazole (60207-90-1))	-	0.0433	0.346	0.4
Cypermethrin (52315-07-8)	-	0.0433	0.346	1	Propoxur (114-26-1)	-	0.0433	0.346	0.2
Daminozide (1596-84-5)	-	0.0433	0.346	1	Pyrethrins (8003-34-7)	-	0.0433	0.346	1
DDVP (62-73-7)	-	0.0433	0.346	0.1	Pyridaben (96489-71-3)	-	0.0433	0.346	0.2
Diazinon (333-41-5)	-	0.0433	0.346	0.2	Spinosad (168316-95-8)	-	0.0433	0.346	0.2
Dimethoate (60-51-5)	-	0.0433	0.346	0.2	Spiromesifen (283594-90-1)	-	0.0433	0.346	0.2
Ethoprophos (13194-48-4)	-	0.0433	0.346	0.2	Spirotetramat (203313-25-1)	-	0.0433	0.346	0.2
Etofenprox (80844-07-1)	-	0.0433	0.346	0.4	Spiroxamine (118134-30-8)	-	0.0433	0.346	0.4
Etoxazole (153233-91-1)	-	0.0433	0.346	0.2	Tebuconazole (80443-41-0)	-	0.0433	0.346	0.4
Fenoxycarb (72490-01-8)	-	0.0433	0.346	0.2	Thiacloprid (111988-49-9)	-	0.0433	0.346	0.2
(E)-Fenpyroximate (134098-61-6)	-	0.0433	0.346	0.4	Thiamethoxam (153719-23-4)	-	0.0433	0.346	0.2
Fipronil (120068-37-3)	-	0.0433	0.346	0.4	Trifloxystrobin (141517-21-7)	-	0.0433	0.346	0.2
Fonicamid (158062-67-0)	-	0.0433	0.346	1					
Fludioxinil (131341-86-1)	-	0.0433	0.346	0.4					
Hexythiazox (78587-05-0)	-	0.0433	0.346	1					
Imazalil (35554-44-0)	-	0.0433	0.346	0.2					
Imidacloprid (138261-41-3)	-	0.0433	0.346	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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Kyle W. Felling, Ph.D.  
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<b>Cultivar (Strain) or Sample Description:</b> Fatso			<b>Date Completed:</b> 02/17/2023

**HEAVY METAL PROFILE (SOP: SOP-ICP-200.7)**

**Analysis Date/Time:** 02/17/2023 0908 (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 (µg/kg)</u>	<u>LOD (µg/kg)</u>	<u>LOQ (µg/kg)</u>	<u>Action Level (µg/kg)</u>
Arsenic (As)	-	59.3	94.0	200
Cadmium (Cd)	-	59.3	94.0	200
Lead (Pb)	-	59.3	94.0	500
Mercury (Hg)	-	59.3	94.0	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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**MICROBIOLOGICAL PROFILE (SOP: SOP-Micro-001)**

**Analysis Date/Time:** 20230216 1550      **Method:** Hardy Diagnostics CompactDry      **Deviations from SOP:**  
**Analyst:** PW      **Instrument:** Thermo Incubator      None

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

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