

**SUMMARY OF ANALYSIS (SAMPLE ID: SA32310)**

<b>Testing Location:</b>	<b>Customer ID:</b> 2161	<b>Order ID:</b> OR10017	<b>Sample Type:</b> Primary
Arkansas	River Valley Relief Cultivation	<b>Lot Number:</b>	<b>Matrix:</b> Flower
232 S. Broadview St.	5601 Old Greenwood Rd Suite C	M00065C13136951980	<b>Mass:</b> 13g
Greenbrier, AR 72058	Fort Smith, AR 72903	<b>Production Run:</b>	<b>Date Collected:</b> 09/07/2022
License: ADH 113	License: 00065C	1008H20220812GMS1	<b>Date Received:</b> 09/07/2022
<b>Cultivar (Strain) or Sample Description:</b> Gush Mints			<b>Date Completed:</b> 09/12/2022

\*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 (%)**

14.1

**Water Activity (aw)**

0.547 @ 25.0°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	22.7	227
CBGA	0.731	7.31
Δ9-THC	0.289	2.89
TOTAL CBD	-	-
TOTAL THC	20.2	202
TOTAL CANNABINOIDS	23.8	238

<b>Terpenes (Top 5)</b>	<b>(%)</b>	<b>µg/g</b>
Eucalyptol	0.605	6050
α-Humulene	0.296	2960
Isopulegol	0.130	1300
δ-3-Carene	0.129	1290
cis-Nerolidol	0.116	1160
TOTAL TERPENES	1.62	16200

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

**Analysis Date/Time:** 9/9/2022 1538

**Method:** HPLC/DAD

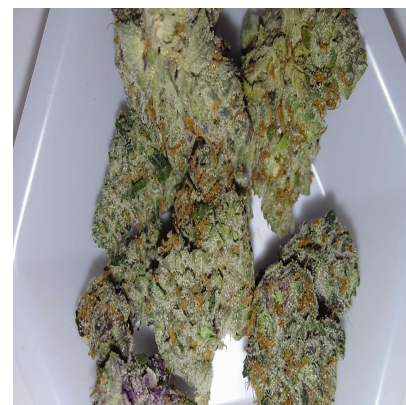
**Moisture Content (%):** 14.1

**Analyst:** PW

**Instrument:** Agilent 1100

**Water Activity (aw):** 0.5474 @ 25.04°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	-	-	-	0.487	-	-	-
CBCA	-	-	-	0.487	-	-	-
CBD	-	-	-	0.487	-	-	-
CBDA	-	-	-	0.487	-	-	-
CBDV	-	-	-	0.487	-	-	-
CBDVA	-	-	-	0.487	-	-	-
CBG	-	-	-	0.487	-	-	-
CBGA	0.731	0.0804	7.31	0.487	-	7.31	7.31
CBL	-	-	-	0.487	-	-	-
CBN	-	-	-	0.487	-	-	-
CBNA	-	-	-	0.487	-	-	-
Δ9-THC	0.289	0.0492	2.89	0.487	-	2.89	2.89
Δ8-THC	-	-	-	0.487	-	-	-
THCA	22.7	2.27	227	0.487	-	227	227
THCV	-	-	-	0.487	-	-	-
THCVA	0.0788	0.00394	0.788	0.487	-	0.788	0.788
<b>TOTAL</b>	<b>23.8</b>	<b>2.40</b>	<b>238</b>		-	<b>238</b>	<b>238</b>
<b>TOTAL CBC</b>	-	-	-		-	-	-
<b>TOTAL CBD</b>	-	-	-		-	-	-
<b>TOTAL CBDV</b>	-	-	-		-	-	-
<b>TOTAL CBG</b>	0.642	0.0706	6.42		-	6.42	6.42
<b>TOTAL CBN</b>	-	-	-		-	-	-
<b>TOTAL THC</b>	20.2	2.04	202		-	202	202
<b>TOTAL THCV</b>	0.0683	0.00342	0.683		-	0.683	0.683



**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 THCV = (THCVA x 0.867) + THCV

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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Laboratory Director



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**TERPENOID PROFILE**

**Analysis Date/Time:** 09/10/2022 1500

**Analyst:** KF

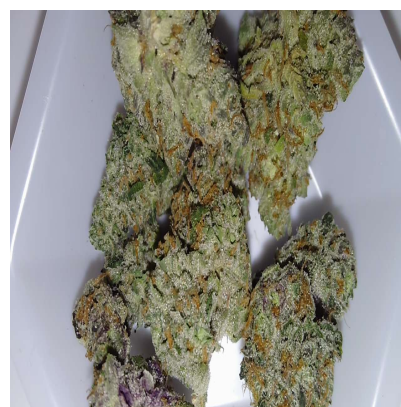
**Method:** GC/MS

**Instrument:** Agilent 7890/5975

**Deviations from SOP:**

None

<b>Terpene</b>	<b>Result (µg/g)</b>	<b>Result (%)</b>	
α-Bisabolol	-	-	
Camphene	710	0.0710	
δ-3-Carene	1290	0.129	
β-Caryophyllene	-	-	
Caryophyllene oxide	-	-	
p-Cymene	-	-	
Eucalyptol	6050	0.605	
Geraniol	-	-	
Guaiol	126	0.0126	
α-Humulene	2960	0.296	
Isopulegol	1300	0.130	
d-Limonene	-	-	
Linalool	85.1	0.00851	
β-Myrcene	1070	0.107	
cis-Nerolidol	1160	0.116	
trans-Nerolidol	747	0.0747	
α-Ocimene	-	-	
β-Ocimene	528	0.0528	
α-Pinene	-	-	
β-Pinene	153	0.0153	
α-Terpinene	-	-	
γ-Terpinene	-	-	
Terpinolene	71.6	0.00716	
<b>TOTAL</b>	<b>16200</b>	<b>1.62</b>	



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

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"-" Not detected above RL.

**Reporting Limit (µg/g): 19.5**

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

**Analysis Date/Time:** 9/9/2022 2049  
**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)	-	0.0195	0.156	0.5	Kresoxim-methyl (143390-89-0)	-	0.0195	0.156	0.4
Acephate (30560-19-1)	-	0.0195	0.156	0.4	Malathion (121-75-5)	-	0.0195	0.156	0.2
Acetaminophen (57960-19-7)	-	0.0195	0.156	2	Metalaxyl (57837-19-1)	-	0.0195	0.156	0.2
Acetaminophen (135410-20-7)	-	0.0195	0.156	0.2	Methiocarb (2032-65-7)	-	0.0195	0.156	0.2
Aldicarb (116-06-3)	-	0.0195	0.156	0.4	Methomyl (16752-77-5)	-	0.0195	0.156	0.4
Azoxystrobin (131860-33-8)	-	0.0195	0.156	0.2	Methyl parathion (298-0-0)	-	0.0195	0.156	0.2
Bifenazate (149877-41-8)	-	0.0195	0.156	0.2	MGK 264 (113-48-4)	-	0.0195	0.156	0.2
Bifenthrin (82657-04-3)	-	0.0195	0.156	0.2	Myclobutanil (88671-89-0)	-	0.0195	0.156	0.2
Boscalid (188425-85-6)	-	0.0195	0.156	0.4	Naled (300-76-5)	-	0.0195	0.156	0.5
Carbaryl (63-25-2)	-	0.0195	0.156	0.2	Oxamyl (23135-22-0)	-	0.0195	0.156	1
Carbofuran (1563-66-2)	-	0.0195	0.156	0.2	Paclobutrazol (76738-62-0)	-	0.0195	0.156	0.4
Chlorantraniliprole (800008-45-7)	-	0.0195	0.156	0.2	Permethrins (52645-53-1)	-	0.0195	0.156	0.2
Chlorfenapyr (122453-73-0)	-	0.0195	0.156	1	Phosmet (732-11-6)	-	0.0195	0.156	0.2
Chlorpyrifos (2921-88-2)	-	0.0195	0.156	0.2	Piperonyl butoxide (51-03-6)	-	0.0195	0.156	2
Clofentezine (74115-24-5)	-	0.0195	0.156	0.2	Prallethrin (2331-36-9)	-	0.0195	0.156	0.2
Cyfluthrin (68359-37-5)	-	0.0195	0.156	1	Propiconazole (60207-90-1)	-	0.0195	0.156	0.4
Cypermethrin (52315-07-8)	-	0.0195	0.156	1	Propoxur (114-26-1)	-	0.0195	0.156	0.2
Daminozide (1596-84-5)	-	0.0195	0.156	1	Pyrethrins (8003-34-7)	-	0.0195	0.156	1
DDVP (62-73-7)	-	0.0195	0.156	0.1	Pyridaben (96489-71-3)	-	0.0195	0.156	0.2
Diazinon (333-41-5)	-	0.0195	0.156	0.2	Spinosad (168316-95-8)	-	0.0195	0.156	0.2
Dimethoate (60-51-5)	-	0.0195	0.156	0.2	Spiromesifen (283594-90-1)	-	0.0195	0.156	0.2
Ethoprophos (13194-48-4)	-	0.0195	0.156	0.2	Spirotetramat (203313-25-1)	-	0.0195	0.156	0.2
Etofenprox (80844-07-1)	-	0.0195	0.156	0.4	Spiroxamine (118134-30-8)	-	0.0195	0.156	0.4
Etazoxole (153233-91-1)	-	0.0195	0.156	0.2	Tebuconazole (80443-41-0)	-	0.0195	0.156	0.4
Fenoxycarb (72490-01-8)	-	0.0195	0.156	0.2	Thiacloprid (111988-49-9)	-	0.0195	0.156	0.2
(E)-Fenpyroximate (134098-61-6)	-	0.0195	0.156	0.4	Thiamethoxam (153719-23-4)	-	0.0195	0.156	0.2
Fipronil (120068-37-3)	-	0.0195	0.156	0.4	Trifloxystrobin (141517-21-7)	-	0.0195	0.156	0.2
Flonicamid (158062-67-0)	-	0.0195	0.156	1					
Fludioxinil (131341-86-1)	-	0.0195	0.156	0.4					
Hexythiazox (78587-05-0)	-	0.0195	0.156	1					
Imazalil (35554-44-0)	-	0.0195	0.156	0.2					
Imidacloprid (138261-41-3)	-	0.0195	0.156	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-200.7)**

<b>Analysis Date/Time:</b> 09/09/2022 1651 (ICP/OES)	<b>Method:</b> ICP/OES	<b>Deviations from SOP:</b>
<b>Analysis Date/Time:</b> - (DMA)	<b>Instrument:</b> Agilent 720-ES	None
<b>Analyst:</b> 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)	-	56.4	89.3	200
Cadmium (Cd)	-	56.4	89.3	200
Lead (Pb)	-	56.4	89.3	500
Mercury (Hg)	DET	56.4	89.3	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**

<b>RESULT &lt; AL</b>
<b>RESULT &gt; AL</b>

"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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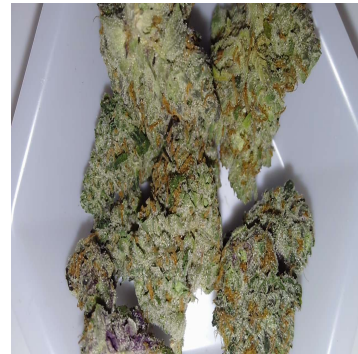
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License: ADA 05_H273	License: 00065C	1008H20220812GMS1	<b>Date Received:</b> 09/07/2022
<b>Cultivar (Strain) or Sample Description:</b> Gush Mints			<b>Date Completed:</b> 09/12/2022

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

<b>Analysis Date/Time:</b> 20220909 1446	<b>Method:</b> Hardy Diagnostics CompactDry	<b>Deviations from SOP:</b>
<b>Analyst:</b> PW	<b>Instrument:</b> 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.  
A value of "-" for the action level means that analyte is not currently regulated by the regulations referenced above.

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