

**SUMMARY OF ANALYSIS (SAMPLE ID: SA37223)**

<b>Testing Location:</b>	<b>Customer ID:</b> 2161	<b>Order ID:</b> OR10885	<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	M00065C13132634030	<b>Mass:</b> 20g
Greenbrier, AR 72058	Fort Smith, AR 72903	<b>Production Run:</b>	<b>Date Collected:</b> 02/26/2024
License: ADH 113	License: 00065C	5054H20240119GHC-1	<b>Date Received:</b> 02/26/2024
<b>Cultivar (Strain) or Sample Description:</b> Grape HI-CHEW			<b>Date Completed:</b> 02/28/2024

\*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 (%)**

13.1

**Water Activity (aw)**

0.463 @ 24.4°C

**PASS/FAIL**

**PASS**

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

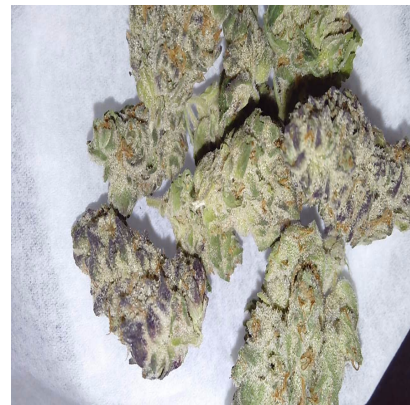
Moisture content levels less than 15% are recommended but the sample does not fail. Water activity levels must be less than 0.65aw.

<b>Cannabinoids (Top 3)</b>	<b>(%)</b>	<b>mg/g</b>
THCA	28.4	284
CBGA	1.05	10.5
Δ9-THC	0.339	3.39
TOTAL CBD	-	-
TOTAL THC	25.3	253
TOTAL CANNABINOIDS	30.1	301

<b>Terpenes (Top 5)</b>	<b>(%)</b>	<b>µg/g</b>
β-Myrcene	0.754	7540
β-Caryophyllene	0.248	2480
α-Humulene	0.129	1290
β-Ocimene	0.0515	515
Linalool	0.0511	511
TOTAL TERPENES	1.39	13900

<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



**CERTIFICATE OF ANALYSIS (SAMPLE ID: SA37223)**

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License: ADH 113	License: 00065C	5054H20240119GHC-1	<b>Date Received:</b> 02/26/2024
<b>Cultivar (Strain) or Sample Description:</b> Grape HI-CHEW			<b>Date Completed:</b> 02/28/2024

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

**Analysis Date/Time:** 02/27/2024 1900

**Method:** HPLC/DAD

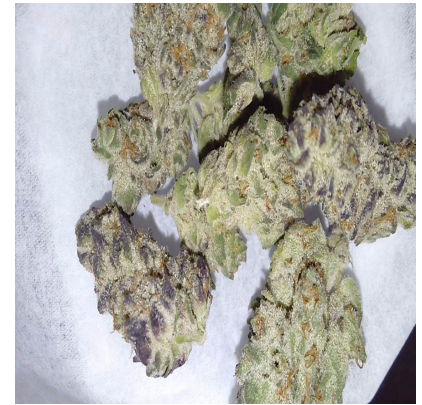
**Moisture Content (%):** 13.1

**Analyst:** PW

**Instrument:** Agilent 1100

**Water Activity (aw):** 0.463 @ 24.4°C

<u>Cannabinoid</u>	<u>Result</u> <u>(%)</u>	<u>Result</u> <u>(mg/g)</u>	<u>LOD</u> <u>(mg/g)</u>	<u>LOQ</u> <u>(mg/g)</u>	<u>Result</u> <u>(mg/</u> <u>mL)</u>	<u>Per</u> <u>Serving</u> <u>(mg)</u>	<u>Per</u> <u>Unit</u> <u>(mg)</u>
CBC	ND	ND	0.0392	0.0914	-	-	-
CBCA	ND	ND	0.122	0.284	-	-	-
CBD	ND	ND	0.276	0.645	-	-	-
CBDV	ND	ND	0.102	0.237	-	-	-
CBDVA	ND	ND	0.0443	0.103	-	-	-
CBG	ND	ND	0.118	0.276	-	-	-
CBGA	0.0757	0.757	0.179	0.419	-	0.658	0.658
CBL	1.05	10.5	0.254	0.300	-	9.09	9.09
CBN	ND	ND	0.207	0.484	-	-	-
CBNA	ND	ND	0.0952	0.222	-	-	-
Δ9-THC	ND	ND	0.103	0.239	-	-	-
Δ8-THC	0.339	3.39	0.114	0.266	-	2.94	2.94
THCA	ND	ND	0.178	0.415	-	-	-
THCV	28.4	284	0.0618	0.145	-	247	247
THCVA	ND	ND	0.148	0.346	-	-	-
THCVA	0.159	1.59	0.0474	0.110	-	1.38	1.38
<b>TOTAL</b>	30.1	301			-	261	261
<b>TOTAL CBC</b>	-	-			-	-	-
<b>TOTAL CBD</b>	-	-			-	-	-
<b>TOTAL CBDV</b>	-	-			-	-	-
<b>TOTAL CBG</b>	0.995	9.95			-	8.64	8.64
<b>TOTAL CBN</b>	-	-			-	-	-
<b>TOTAL THC</b>	25.3	253			-	220	220
<b>TOTAL THCVA</b>	0.138	1.38			-	1.20	1.20



**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 = (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 THCVA = (THCVA x 0.867) + THCVA

*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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Percentage results are reported by mass.

mg/g results are reported as mass component per mass material.

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### TERPENOID PROFILE

**Analysis Date/Time:** 02/28/2024 0547

**Method:** GC/MS

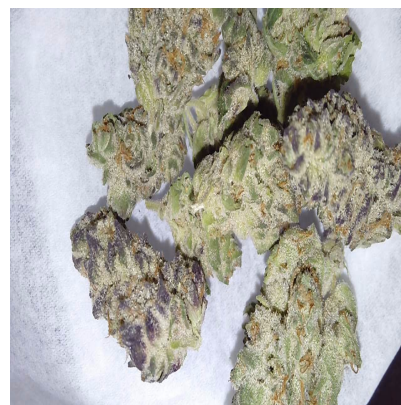
**Deviations from SOP:**

**Analyst:** KF

**Instrument:** Agilent 7890/5975

None

<u>Terpene</u>	<u>Result</u> (µg/g)	<u>Result</u> (%)	
α-Bisabolol	301	0.0301	
Camphene	ND	-	
δ-3-Carene	ND	-	
β-Caryophyllene	2480	0.248	
Caryophyllene oxide	ND	-	
p-Cymene	ND	-	
Eucalyptol	ND	-	
Geraniol	ND	-	
Guaiol	425	0.0425	
α-Humulene	1290	0.129	
Isopulegol	ND	-	
d-Limonene	263	0.0263	
Linalool	511	0.0511	
β-Myrcene	7540	0.754	
cis-Nerolidol	ND	-	
trans-Nerolidol	301	0.0301	
α-Ocimene	ND	-	
β-Ocimene	515	0.0515	
α-Pinene	<LOQ	-	
β-Pinene	259	0.0259	
α-Terpinene	ND	-	
γ-Terpinene	ND	-	
Terpinolene	ND	-	
<b>TOTAL</b>	<b>13900</b>	<b>1.39</b>	



**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):** 42.9

"-" Not detected above LOD.

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

**Analysis Date/Time:** 02/27/2024 929

**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)	-	0.0427	0.341	0.5	Kresoxim-methyl (143390-89-0)	-	0.0427	0.341	0.4
Acephate (30560-19-1)	-	0.0427	0.341	0.4	Malathion (121-75-5)	-	0.0427	0.341	0.2
Acetaminophen (57960-19-7)	-	0.0427	0.341	2	Metalaxyl (57837-19-1)	-	0.0427	0.341	0.2
Acetamiprid (135410-20-7)	-	0.0427	0.341	0.2	Methiocarb (2032-65-7)	-	0.0427	0.341	0.2
Aldicarb (116-06-3)	-	0.0427	0.341	0.4	Methomyl (16752-77-5)	-	0.0427	0.341	0.4
Azoxystrobin (131860-33-8)	-	0.0427	0.341	0.2	Methyl parathion (298-0-0)	-	0.0427	0.341	0.2
Bifenazate (149877-41-8)	-	0.0427	0.341	0.2	MGK 264 (113-48-4)	-	0.0427	0.341	0.2
Bifenthrin (82657-04-3)	-	0.0427	0.341	0.2	Myclobutanil (88671-89-0)	-	0.0427	0.341	0.2
Boscalid (188425-85-6)	-	0.0427	0.341	0.4	Naled (300-76-5)	-	0.0427	0.341	0.5
Carbaryl (63-25-2)	-	0.0427	0.341	0.2	Oxamyl (23135-22-0)	-	0.0427	0.341	1
Carbofuran (1563-66-2)	-	0.0427	0.341	0.2	Paclobutrazol (76738-62-0)	-	0.0427	0.341	0.4
Chlorantraniliprole (800008-45-7)	-	0.0427	0.341	0.2	Permethrins (52645-53-1)	-	0.0427	0.341	0.2
Chlorfenapyr (122453-73-0)	-	0.0427	0.341	1	Phosmet (732-11-6)	-	0.0427	0.341	0.2
Chlorpyrifos (2921-88-2)	-	0.0427	0.341	0.2	Piperonyl butoxide (51-03-6)	-	0.0427	0.341	2
Clofentezine (74115-24-5)	-	0.0427	0.341	0.2	Prallethrin (2331-36-9)	-	0.0427	0.341	0.2
Cyfluthrin (68359-37-5)	-	0.0427	0.341	1	Propiconazole (60207-90-1)	-	0.0427	0.341	0.4
Cypermethrin (52315-07-8)	-	0.0427	0.341	1	Propoxur (114-26-1)	-	0.0427	0.341	0.2
Daminozide (1596-84-5)	-	0.0427	0.341	1	Pyrethrins (8003-34-7)	-	0.0427	0.341	1
DDVP (62-73-7)	-	0.0427	0.341	0.1	Pyridaben (96489-71-3)	-	0.0427	0.341	0.2
Diazinon (333-41-5)	-	0.0427	0.341	0.2	Spinosad (168316-95-8)	-	0.0427	0.341	0.2
Dimethoate (60-51-5)	-	0.0427	0.341	0.2	Spiromesifen (283594-90-1)	-	0.0427	0.341	0.2
Ethoprophos (13194-48-4)	-	0.0427	0.341	0.2	Spirotetramat (203313-25-1)	-	0.0427	0.341	0.2
Etofenprox (80844-07-1)	-	0.0427	0.341	0.4	Spiroxamine (118134-30-8)	-	0.0427	0.341	0.4
Etoazoxole (153233-91-1)	-	0.0427	0.341	0.2	Tebuconazole (80443-41-0)	-	0.0427	0.341	0.4
Fenoxycarb (72490-01-8)	-	0.0427	0.341	0.2	Thiacloprid (111988-49-9)	-	0.0427	0.341	0.2
(E)-Fenpyroximate (134098-61-6)	-	0.0427	0.341	0.4	Thiamethoxam (153719-23-4)	-	0.0427	0.341	0.2
Fipronil (120068-37-3)	-	0.0427	0.341	0.4	Trifloxystrobin (141517-21-7)	-	0.0427	0.341	0.2
Flonicamid (158062-67-0)	-	0.0427	0.341	1					
Fludioxinil (131341-86-1)	-	0.0427	0.341	0.4					
Hexythiazox (78587-05-0)	-	0.0427	0.341	1					
Imazalil (35554-44-0)	-	0.0427	0.341	0.2					
Imidacloprid (138261-41-3)	-	0.0427	0.341	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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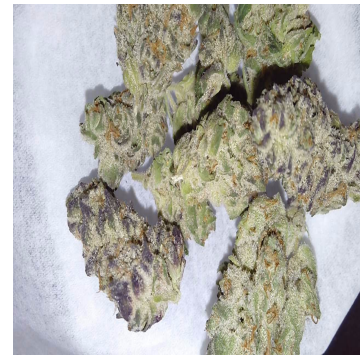
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**HEAVY METAL PROFILE (SOP: SOP-ICP-200.6)**

<b>Analysis Date/Time:</b> 02/27/2024 1952 (ICP/OES)	<b>Method:</b> ICP/MS	<b>Deviations from SOP:</b>
<b>Analysis Date/Time:</b> - (DMA)	<b>Instrument:</b> Agilent 7500ce	None
<b>Analyst:</b> KF		

<b>Heavy Metal</b>	<b>Result (µg/kg)</b>	<b>LOD (µg/kg)</b>	<b>LOQ (µg/kg)</b>	<b>Action Level (µg/kg)</b>
Arsenic (As)	-	59.5	94.1	200
Cadmium (Cd)	-	59.5	94.1	200
Lead (Pb)	-	59.5	94.1	500
Mercury (Hg)	-	59.5	94.1	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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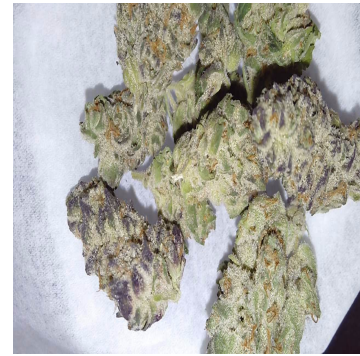
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License: ADA 05_H273	License: 00065C	5054H20240119GHC-1	<b>Date Received:</b> 02/26/2024
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**MICROBIOLOGICAL PROFILE (SOP: SOP-Micro-001)**

**Analysis Date/Time:** 02/27/2024 1500  
**Analyst:** PW  
**Method:** Hardy Diagnostics CompactDry  
**Instrument:** Thermo Incubator  
**Deviations from SOP:** 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	-
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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