

**SUMMARY OF ANALYSIS (SAMPLE ID: SA33390)**

<b>Testing Location:</b>	<b>Customer ID:</b> 2161	<b>Order ID:</b> OR10159	<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	M00065C13133002901	<b>Mass:</b> 6g
Greenbrier, AR 72058	Fort Smith, AR 72903	<b>Production Run:</b>	<b>Date Collected:</b> 11/09/2022
License: ADH 113	License: 00065C	5012H20221016CSL1	<b>Date Received:</b> 11/09/2022
<b>Cultivar (Strain) or Sample Description:</b> Creamsicle			<b>Date Completed:</b> 11/15/2022

\*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 (%)**

12.5

**Water Activity (aw)**

0.507 @ 24.5°C

**PASS/FAIL**

**PASS**

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

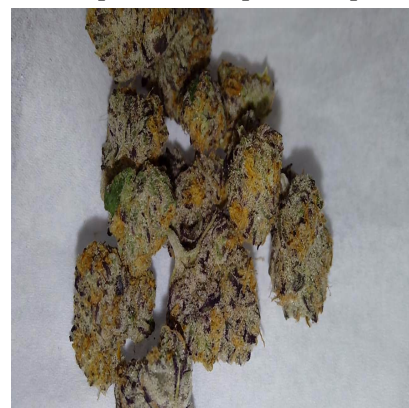
Moisture content levels less than 15% are recommended but the sample does not fail. Water activity levels must be less than 0.65aw.

<b>Cannabinoids (Top 3)</b>	<b>(%)</b>	<b>mg/g</b>
THCA	23.3	233
Δ9-THC	0.346	3.46
CBCA	0.311	3.11
TOTAL CBD	-	-
TOTAL THC	20.8	208
TOTAL CANNABINOIDS	24.6	246

<b>Terpenes (Top 5)</b>	<b>(%)</b>	<b>µg/g</b>
β-Caryophyllene	0.560	5600
d-Limonene	0.317	3170
α-Humulene	0.253	2530
β-Myrcene	0.0953	953
Linalool	0.0947	947
TOTAL TERPENES	1.66	16600

<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: SA33390)**

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License: ADH 113	License: 00065C	5012H20221016CSL1	<b>Date Received:</b> 11/09/2022
<b>Cultivar (Strain) or Sample Description:</b> Creamsicle			<b>Date Completed:</b> 11/15/2022

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

**Analysis Date/Time:** 11/10/2022 1631

**Analyst:** PW

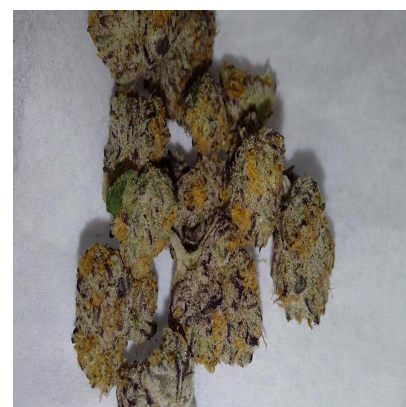
**Method:** HPLC/DAD

**Instrument:** Agilent 1100

**Moisture Content (%):** 12.5

**Water Activity (aw):** 0.507 @ 24.48°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	-	-	-	0.253	-	-	-
CBCA	0.311	0.0280	3.11	0.253	-	3.11	3.11
CBD	-	-	-	0.253	-	-	-
CBDV	-	-	-	0.253	-	-	-
CBDVA	0.0464	0.00418	0.464	0.253	-	0.464	0.464
CBG	0.0844	0.00760	0.844	0.253	-	0.844	0.844
CBGA	0.294	0.0265	2.94	0.253	-	2.94	2.94
CBL	DET	-	DET	0.253	-	-	-
CBN	-	-	-	0.253	-	-	-
CBNA	-	-	-	0.253	-	-	-
Δ9-THC	0.346	0.0311	3.46	0.253	-	3.46	3.46
Δ8-THC	-	-	-	0.253	-	-	-
THCA	23.3	2.10	233	0.253	-	233	233
THCV	-	-	-	0.253	-	-	-
THCVA	0.166	0.0149	1.66	0.253	-	1.66	1.66
<b>TOTAL</b>	<b>24.6</b>	<b>2.21</b>	<b>246</b>		<b>-</b>	<b>246</b>	<b>246</b>
<b>TOTAL CBC</b>	<b>0.272</b>	<b>0.0245</b>	<b>2.72</b>		<b>-</b>	<b>2.72</b>	<b>2.72</b>
<b>TOTAL CBD</b>	<b>-</b>	<b>-</b>	<b>-</b>		<b>-</b>	<b>-</b>	<b>-</b>
<b>TOTAL CBDV</b>	<b>0.0403</b>	<b>0.00362</b>	<b>0.403</b>		<b>-</b>	<b>0.403</b>	<b>0.403</b>
<b>TOTAL CBG</b>	<b>0.343</b>	<b>0.0309</b>	<b>3.43</b>		<b>-</b>	<b>3.43</b>	<b>3.43</b>
<b>TOTAL CBN</b>	<b>-</b>	<b>-</b>	<b>-</b>		<b>-</b>	<b>-</b>	<b>-</b>
<b>TOTAL THC</b>	<b>20.8</b>	<b>1.87</b>	<b>208</b>		<b>-</b>	<b>208</b>	<b>208</b>
<b>TOTAL THCV</b>	<b>0.144</b>	<b>0.0129</b>	<b>1.44</b>		<b>-</b>	<b>1.44</b>	<b>1.44</b>



**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 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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**TERPENOID PROFILE**

**Analysis Date/Time:** 11/14/2022 2204

**Analyst:** KF

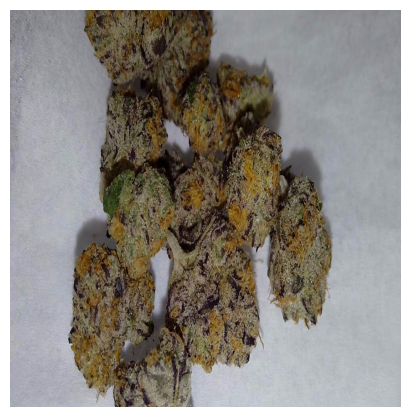
**Method:** GC/MS

**Instrument:** Agilent 7890/5975

**Deviations from SOP:**

None

<b>Terpene</b>	<b>Result (µg/g)</b>	<b>Result (%)</b>	
α-Bisabolol	610	0.0610	
Camphene	161	0.0161	
δ-3-Carene	-	-	
β-Caryophyllene	5600	0.560	
Caryophyllene oxide	144	0.0144	
p-Cymene	77.8	0.00778	
Eucalyptol	-	-	
Geraniol	72.3	0.00723	
Guaiol	-	-	
α-Humulene	2530	0.253	
Isopulegol	-	-	
d-Limonene	3170	0.317	
Linalool	947	0.0947	
β-Myrcene	953	0.0953	
cis-Nerolidol	-	-	
trans-Nerolidol	237	0.0237	
α-Ocimene	32.8	0.00328	
β-Ocimene	496	0.0496	
α-Pinene	654	0.0654	
β-Pinene	802	0.0802	
α-Terpinene	-	-	
γ-Terpinene	-	-	
Terpinolene	122	0.0122	
<b>TOTAL</b>	<b>16600</b>	<b>1.66</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:** 11/14/2022 1722

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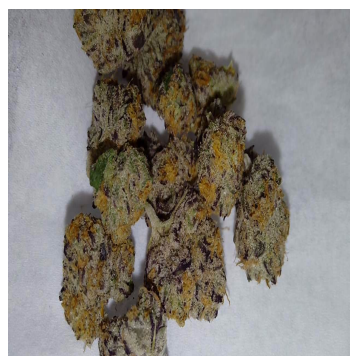
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**HEAVY METAL PROFILE (SOP: SOP-ICP-200.7)**

<b>Analysis Date/Time:</b> 11/14/2022 1849 (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		

<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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License: ADA 05_H273	License: 00065C	5012H20221016CSL1	<b>Date Received:</b> 11/09/2022
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**MICROBIOLOGICAL PROFILE (SOP: SOP-Micro-001)**

**Analysis Date/Time:** 11/11/2022 0951      **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.  
 A value of "-" for the action level means that analyte is not currently regulated by the regulations referenced above.

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