

SUMMARY OF ANALYSIS (SAMPLE ID: SA34288)

Testing Location: Arkansas 232 S. Broadview St. Greenbrier, AR 72058 License: ADH 113	Customer ID: 2161 River Valley Relief Cultivation 5601 Old Greenwood Rd Suite C Fort Smith, AR 72903 License: 00065C	Order ID: OR10291 Lot Number: M00065C13134973676 Production Run: 6020H20221201ICC-1	Sample Type: Primary Matrix: Flower Mass: 23g Date Collected: 02/06/2023 Date Received: 02/06/2023
Cultivar (Strain) or Sample Description: Ice Cream Cake			Date Completed: 02/09/2023

*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 (%)

14.5

Water Activity (aw)

0.490 @ 24.4°C

PASS/FAIL

PASS

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

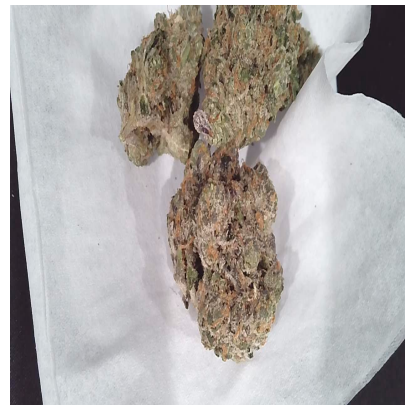
Moisture content levels less than 15% are recommended but the sample does not fail. Water activity levels must be less than 0.65aw.

Cannabinoids (Top 3)	(%)	mg/g
THCA	21.6	216
CBGA	0.577	5.77
Δ9-THC	0.509	5.09
TOTAL CBD	-	-
TOTAL THC	19.5	195
TOTAL CANNABINOIDS	22.8	228

Terpenes (Top 5)	(%)	µg/g
Caryophyllene oxide	0.677	6770
β-Caryophyllene	0.617	6170
α-Humulene	0.234	2340
d-Limonene	0.201	2010
Linalool	0.192	1920
TOTAL TERPENES	2.00	20000

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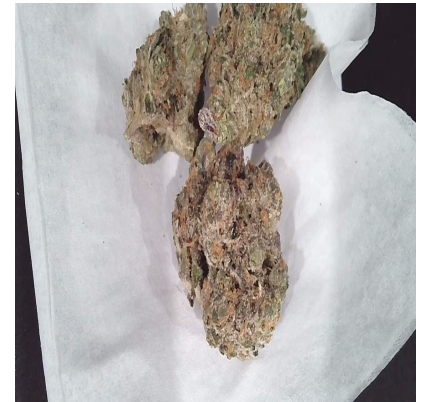
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CANNABINOID (POTENCY) PROFILE (SOP: SOP-CANN-001)

Analysis Date/Time: 2/8/2023 1428 **Method:** HPLC/DAD **Moisture Content (%):** 14.5
Analyst: PW **Instrument:** Agilent 1100 **Water Activity (aw):** 0.49 @ 24.43°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	-	-	-	0.505	-	-	-
CBCA	-	-	-	1.57	-	-	-
CBD	-	-	-	3.56	-	-	-
CBDA	-	-	-	1.31	-	-	-
CBDV	-	-	-	0.571	-	-	-
CBDVA	-	-	-	1.52	-	-	-
CBG	-	-	-	2.31	-	-	-
CBGA	0.577	0.0520	5.77	1.66	-	5.77	5.77
CBL	-	-	-	2.67	-	-	-
CBN	-	-	-	1.23	-	-	-
CBNA	-	-	-	1.32	-	-	-
Δ9-THC	0.509	0.0458	5.09	1.47	-	5.09	5.09
Δ8-THC	-	-	-	2.29	-	-	-
THCA	21.6	1.94	216	0.799	-	216	216
THCV	-	-	-	1.91	-	-	-
THCVA	0.125	0.00374	1.25	0.609	-	1.25	1.25
TOTAL	22.8	2.05	228			228	228
TOTAL CBC	-	-	-			-	-
TOTAL CBD	-	-	-			-	-
TOTAL CBDV	-	-	-			-	-
TOTAL CBG	0.507	0.0456	5.07			5.07	5.07
TOTAL CBN	-	-	-			-	-
TOTAL THC	19.5	1.75	195			195	195
TOTAL THC V	0.108	0.00324	1.08			1.08	1.08



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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TERPENOID PROFILE

Analysis Date/Time: 02/08/2023 1428
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	-	-	
Camphene	-	-	
δ-3-Carene	-	-	
β-Caryophyllene	6170	0.617	
Caryophyllene oxide	6770	0.677	
p-Cymene	-	-	
Eucalyptol	-	-	
Geraniol	-	-	
Guaiol	-	-	
α-Humulene	2340	0.234	
Isopulegol	-	-	
d-Limonene	2010	0.201	
Linalool	1920	0.192	
β-Myrcene	129	0.0129	
cis-Nerolidol	-	-	
trans-Nerolidol	493	0.0493	
α-Ocimene	-	-	
β-Ocimene	-	-	
α-Pinene	-	-	
β-Pinene	153	0.0153	
α-Terpinene	-	-	
γ-Terpinene	-	-	
Terpinolene	-	-	
TOTAL	20000	2.00	



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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PESTICIDES PROFILE (SOP: SOP-PEST-001)

Analysis Date/Time: 02/08/2023 1349
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	Systhane	Propiconazole	Tilt
DDVP	Dichlorvos	Naled	Dibrom	Propoxur	Baygon
Ethoprophos	Prophos	Phosmet	Imidan		

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



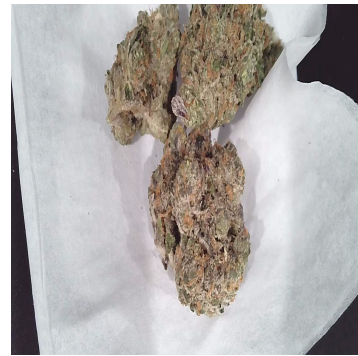
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HEAVY METAL PROFILE (SOP: SOP-ICP-200.7)

Analysis Date/Time: 02/08/2023 0900 (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)	-	58.6	92.7	200
Cadmium (Cd)	-	58.6	92.7	200
Lead (Pb)	-	58.6	92.7	500
Mercury (Hg)	-	58.6	92.7	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



"DET" detected less than LOQ
 "-" not detected above LOD

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 Kyle W. Felling, Ph.D.
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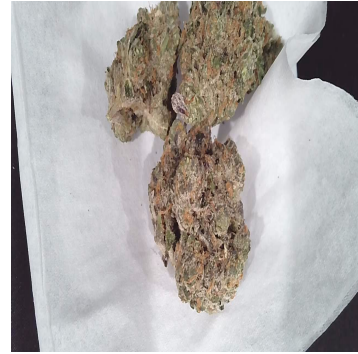
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MICROBIOLOGICAL PROFILE (SOP: SOP-Micro-001)

Analysis Date/Time: 20230208 1152 **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	Absent	-
Coliforms, Total	Absent	1
Escherichia Coli (E. Coli)	NT	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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