

SUMMARY OF ANALYSIS (SAMPLE ID: SA33720)

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: OR10219 Lot Number: M00065C13134090457 Production Run: 7014H20221004ICM2	Sample Type: Primary Matrix: Flower Mass: 6g Date Collected: 12/14/2022 Date Received: 12/14/2022 Date Completed: 12/21/2022
Cultivar (Strain) or Sample Description: Ice Cream Man			

*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 (%)

14.3

Water Activity (aw)

0.451 @ 24.0°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.

Cannabinoids (Top 3)	(%)	mg/g
THCA	19.5	195
Δ9-THC	1.80	18.0
CBGA	0.921	9.21
TOTAL CBD	0.0385	0.385
TOTAL THC	18.9	189
TOTAL CANNABINOIDS	22.9	229

Terpenes (Top 5)	(%)	µg/g
Terpinolene	0.111	1110
β-Myrcene	0.0939	939
β-Pinene	0.0598	598
d-Limonene	0.0522	522
β-Caryophyllene	0.0464	464
TOTAL TERPENES	0.613	6130

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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Thank You!

REPORT OF LABORATORY ANALYSIS

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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: 12/16/2022 1804
Analyst: PW

Method: HPLC/DAD
Instrument: Agilent 1100

Moisture Content (%): 14.3
Water Activity (aw): 0.451 @ 24.02°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	-	-	-	0.235	-	-	-
CBCA	0.108	0.00976	1.08	0.235	-	1.08	1.08
CBD	-	-	-	0.235	-	-	-
CBDA	0.0439	0.00395	0.439	0.235	-	0.439	0.439
CBDV	-	-	-	0.235	-	-	-
CBDVA	-	-	-	0.235	-	-	-
CBG	0.140	0.0126	1.40	0.235	-	1.40	1.40
CBGA	0.921	0.0829	9.21	0.235	-	9.21	9.21
CBL	-	-	-	0.235	-	-	-
CBN	-	-	-	0.235	-	-	-
CBNA	0.0717	0.00645	0.717	0.235	-	0.717	0.717
Δ9-THC	1.80	0.162	18.0	0.235	-	18.0	18.0
Δ8-THC	-	-	-	0.235	-	-	-
THCA	19.5	1.76	195	0.235	-	195	195
THCV	-	-	-	0.235	-	-	-
THCVA	0.283	0.0255	2.83	0.235	-	2.83	2.83
TOTAL	22.9	2.06	229			229	229
TOTAL CBC	0.0951	0.00856	0.951			0.951	0.951
TOTAL CBD	0.0385	0.00346	0.385			0.385	0.385
TOTAL CBDV	-	-	-			-	-
TOTAL CBG	0.948	0.0853	9.48			9.48	9.48
TOTAL CBN	0.0628	0.00565	0.628			0.628	0.628
TOTAL THC	18.9	1.70	189			189	189
TOTAL THC V	0.245	0.0221	2.45			2.45	2.45



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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Cultivar (Strain) or Sample Description: Ice Cream Man			Date Completed: 12/21/2022

TERPENOID PROFILE

Analysis Date/Time: 12/19/2022 0032
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	168	0.0168	█
δ-3-Carene	326	0.0326	█
β-Caryophyllene	464	0.0464	█
Caryophyllene oxide	-	-	
p-Cymene	-	-	
Eucalyptol	-	-	
Geraniol	294	0.0294	█
Guaiol	-	-	
α-Humulene	-	-	
Isopulegol	-	-	
d-Limonene	522	0.0522	█
Linalool	406	0.0406	█
β-Myrcene	939	0.0939	█
cis-Nerolidol	-	-	
trans-Nerolidol	-	-	
α-Ocimene	-	-	
β-Ocimene	432	0.0432	█
α-Pinene	236	0.0236	█
β-Pinene	598	0.0598	█
α-Terpinene	315	0.0315	█
γ-Terpinene	327	0.0327	█
Terpinolene	1110	0.111	█
TOTAL	6130	0.613	



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

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"-" Not detected above RL.

Reporting Limit (µg/g): 44.7

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PESTICIDES PROFILE (SOP: SOP-PEST-001)

Analysis Date/Time: 12/19/2022 2209
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)	-	0.0443	0.355	0.5	Kresoxim-methyl (143390-89-0)	-	0.0443	0.355	0.4
Acephate (30560-19-1)	-	0.0443	0.355	0.4	Malathion (121-75-5)	-	0.0443	0.355	0.2
Acetamiprid (135410-20-7)	-	0.0443	0.355	0.2	Metalaxyl (57837-19-1)	-	0.0443	0.355	0.2
Aldicarb (116-06-3)	-	0.0443	0.355	0.4	Methiocarb (2032-65-7)	-	0.0443	0.355	0.2
Azoxystrobin (131860-33-8)	-	0.0443	0.355	0.2	Methomyl (16752-77-5)	-	0.0443	0.355	0.4
Bifenazate (149877-41-8)	-	0.0443	0.355	0.2	Methyl parathion (298-0-0)	-	0.0443	0.355	0.2
Bifenthrin (82657-04-3)	-	0.0443	0.355	0.2	MGK 264 (113-48-4)	-	0.0443	0.355	0.2
Boscalid (188425-85-6)	-	0.0443	0.355	0.4	Myclobutanil (88671-89-0)	-	0.0443	0.355	0.2
Carbaryl (63-25-2)	-	0.0443	0.355	0.2	Naled (300-76-5)	-	0.0443	0.355	0.5
Carbofuran (1563-66-2)	-	0.0443	0.355	0.2	Oxamyl (23135-22-0)	-	0.0443	0.355	1
Chlorantraniliprole (800008-45-7)	-	0.0443	0.355	0.2	Paclobutrazol (76738-62-0)	-	0.0443	0.355	0.4
Chlorfenapyr (122453-73-0)	-	0.0443	0.355	1	Permethrins (52645-53-1)	-	0.0443	0.355	0.2
Chlorpyrifos (2921-88-2)	-	0.0443	0.355	0.2	Phosmet (732-11-6)	-	0.0443	0.355	0.2
Clofentezine (74115-24-5)	-	0.0443	0.355	0.2	Piperonyl butoxide (51-03-6)	-	0.0443	0.355	2
Cyfluthrin (68359-37-5)	-	0.0443	0.355	1	Prallethrins (2331-36-9)	-	0.0443	0.355	0.2
Cypermethrin (52315-07-8)	-	0.0443	0.355	1	Propiconazole (60207-90-1)	-	0.0443	0.355	0.4
Daminozide (1596-84-5)	-	0.0443	0.355	1	Propoxur (114-26-1)	-	0.0443	0.355	0.2
DDVP (62-73-7)	-	0.0443	0.355	0.1	Pyrethrins (8003-34-7)	-	0.0443	0.355	1
Diazinon (333-41-5)	-	0.0443	0.355	0.2	Pyridaben (96489-71-3)	-	0.0443	0.355	0.2
Dimethoate (60-51-5)	-	0.0443	0.355	0.2	Spinosad (168316-95-8)	-	0.0443	0.355	0.2
Ethoprophos (13194-48-4)	-	0.0443	0.355	0.2	Spiromesifen (283594-90-1)	-	0.0443	0.355	0.2
Etofenprox (80844-07-1)	-	0.0443	0.355	0.4	Spirotetramat (203313-25-1)	-	0.0443	0.355	0.2
Etoxazole (153233-91-1)	-	0.0443	0.355	0.2	Spiroxamine (118134-30-8)	-	0.0443	0.355	0.4
Fenoxycarb (72490-01-8)	-	0.0443	0.355	0.2	Tebuconazole (80443-41-0)	-	0.0443	0.355	0.4
(E)-Fenpyroximate (134098-61-6)	-	0.0443	0.355	0.4	Thiacloprid (111988-49-9)	-	0.0443	0.355	0.2
Fipronil (120068-37-3)	-	0.0443	0.355	0.4	Thiamethoxam (153719-23-4)	-	0.0443	0.355	0.2
Fonicamid (158062-67-0)	-	0.0443	0.355	1	Trifloxystrobin (141517-21-7)	-	0.0443	0.355	0.2
Fludioxinil (131341-86-1)	-	0.0443	0.355	0.4					
Hexythiazox (78587-05-0)	-	0.0443	0.355	1					
Imazalil (35554-44-0)	-	0.0443	0.355	0.2					
Imidacloprid (138261-41-3)	-	0.0443	0.355	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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HEAVY METAL PROFILE (SOP: SOP-ICP-200.7)

Analysis Date/Time: 12/21/2022 0914 (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)	-	58.6	92.8	200
Cadmium (Cd)	-	58.6	92.8	200
Lead (Pb)	-	58.6	92.8	500
Mercury (Hg)	-	58.6	92.8	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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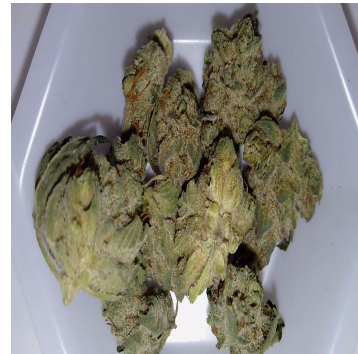
CERTIFICATE OF ANALYSIS (SAMPLE ID: SA33720)

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MICROBIOLOGICAL PROFILE (SOP: SOP-Micro-001)

Analysis Date/Time: 20221216 1421 **Method:** Hardy Diagnostics CompactDry **Deviations from SOP:**
Analyst: PW **Instrument:** Thermo Incubator None

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



Reporting Limit (CFU/g)
1

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