

SUMMARY OF ANALYSIS (SAMPLE ID: SA32940)

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: OR10124 Lot Number: M00065C13136742190 Production Run: 5012H20220921ICC2	Sample Type: Primary Matrix: Flower Mass: 18g Date Collected: 10/25/2022 Date Received: 10/26/2022 Date Completed: 10/29/2022
Cultivar (Strain) or Sample Description: Ice Cream Cake			

*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 (%)

11.5

Water Activity (aw)

0.459 @ 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	23.3	233
CBGA	1.13	11.3
Δ9-THC	0.188	1.88
TOTAL CBD	-	-
TOTAL THC	20.6	206
TOTAL CANNABINOIDS	24.8	248

Terpenes (Top 5)	(%)	µg/g
β-Caryophyllene	0.536	5360
d-Limonene	0.307	3070
α-Humulene	0.210	2100
Linalool	0.156	1560
β-Pinene	0.0522	522
TOTAL TERPENES	1.42	14200

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

Analysis Date/Time: 10/26/2022 1619 **Method:** HPLC/DAD **Moisture Content (%):** 11.5
Analyst: PW **Instrument:** Agilent 1100 **Water Activity (aw):** 0.459 @ 24.39°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	-	-	-	0.258	-	-	-
CBCA	-	-	-	0.258	-	-	-
CBD	-	-	-	0.258	-	-	-
CBDA	DET	-	DET	0.258	-	-	-
CBDV	-	-	-	0.258	-	-	-
CBDVA	-	-	-	0.258	-	-	-
CBG	0.0477	0.00429	0.477	0.258	-	0.477	0.477
CBGA	1.13	0.101	11.3	0.258	-	11.3	11.3
CBL	-	-	-	0.258	-	-	-
CBN	-	-	-	0.258	-	-	-
CBNA	-	-	-	0.258	-	-	-
Δ9-THC	0.188	0.0169	1.88	0.258	-	1.88	1.88
Δ8-THC	-	-	-	0.258	-	-	-
THCA	23.3	2.09	233	0.258	-	233	233
THCV	-	-	-	0.258	-	-	-
THCVA	0.150	0.0135	1.50	0.258	-	1.50	1.50
TOTAL	24.8	2.23	248			248	248
TOTAL CBC	-	-	-			-	-
TOTAL CBD	-	-	-			-	-
TOTAL CBDV	-	-	-			-	-
TOTAL CBG	1.04	0.0934	10.4			10.4	10.4
TOTAL CBN	-	-	-			-	-
TOTAL THC	20.6	1.85	206			206	206
TOTAL THC V	0.130	0.0117	1.30			1.30	1.30



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 Cake **Date Completed:** 10/29/2022

TERPENOID PROFILE

Analysis Date/Time: 10/28/2022 2353
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	79.6	0.00796	
Camphene	112	0.0112	
δ-3-Carene	-	-	
β-Caryophyllene	5360	0.536	█
Caryophyllene oxide	83.9	0.00839	
p-Cymene	-	-	
Eucalyptol	65.6	0.00656	
Geraniol	115	0.0115	
Guaiol	-	-	
α-Humulene	2100	0.210	█
Isopulegol	-	-	
d-Limonene	3070	0.307	█
Linalool	1560	0.156	█
β-Myrcene	252	0.0252	
cis-Nerolidol	-	-	
trans-Nerolidol	318	0.0318	
α-Ocimene	36.8	0.00368	
β-Ocimene	90.0	0.00900	
α-Pinene	273	0.0273	
β-Pinene	522	0.0522	█
α-Terpinene	-	-	
γ-Terpinene	63.6	0.00636	
Terpinolene	130	0.0130	
TOTAL	14200	1.42	



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

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"-" Not detected above RL. **Reporting Limit (µg/g):** 17.9

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

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PESTICIDES PROFILE (SOP: SOP-PEST-001)

Analysis Date/Time: 10/28/2022 1726
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)	-	0.0179	0.143	0.5	Kresoxim-methyl (143390-89-0)	-	0.0179	0.143	0.4
Acephate (30560-19-1)	-	0.0179	0.143	0.4	Malathion (121-75-5)	-	0.0179	0.143	0.2
Acetamiprid (135410-20-7)	-	0.0179	0.143	0.2	Metalaxyl (57837-19-1)	-	0.0179	0.143	0.2
Aldicarb (116-06-3)	-	0.0179	0.143	0.4	Methiocarb (2032-65-7)	-	0.0179	0.143	0.2
Azoxystrobin (131860-33-8)	-	0.0179	0.143	0.2	Methomyl (16752-77-5)	-	0.0179	0.143	0.4
Bifenazate (149877-41-8)	-	0.0179	0.143	0.2	Methyl parathion (298-0-0)	-	0.0179	0.143	0.2
Bifenthrin (82657-04-3)	-	0.0179	0.143	0.2	MGK 264 (113-48-4)	-	0.0179	0.143	0.2
Boscalid (188425-85-6)	-	0.0179	0.143	0.4	Myclobutanil (88671-89-0)	-	0.0179	0.143	0.2
Carbaryl (63-25-2)	-	0.0179	0.143	0.2	Naled (300-76-5)	-	0.0179	0.143	0.5
Carbofuran (1563-66-2)	-	0.0179	0.143	0.2	Oxamyl (23135-22-0)	-	0.0179	0.143	1
Chlorantraniliprole (800008-45-7)	-	0.0179	0.143	0.2	Pacllobutrazol (76738-62-0)	-	0.0179	0.143	0.4
Chlorfenapyr (122453-73-0)	-	0.0179	0.143	1	Permethrins (52645-53-1)	-	0.0179	0.143	0.2
Chlorpyrifos (2921-88-2)	-	0.0179	0.143	0.2	Phosmet (732-11-6)	-	0.0179	0.143	0.2
Clofentezine (74115-24-5)	-	0.0179	0.143	0.2	Piperonyl butoxide (51-03-6)	-	0.0179	0.143	2
Cyfluthrin (68359-37-5)	-	0.0179	0.143	1	Prallethrins (2331-36-9)	-	0.0179	0.143	0.2
Cypermethrin (52315-07-8)	-	0.0179	0.143	1	Propiconazole (60207-90-1)	-	0.0179	0.143	0.4
Daminozide (1596-84-5)	-	0.0179	0.143	1	Propoxur (114-26-1)	-	0.0179	0.143	0.2
DDVP (62-73-7)	-	0.0179	0.143	0.1	Pyrethrins (8003-34-7)	-	0.0179	0.143	1
Diazinon (333-41-5)	-	0.0179	0.143	0.2	Pyridaben (96489-71-3)	-	0.0179	0.143	0.2
Dimethoate (60-51-5)	-	0.0179	0.143	0.2	Spinosad (168316-95-8)	-	0.0179	0.143	0.2
Ethoprophos (13194-48-4)	-	0.0179	0.143	0.2	Spiromesifen (283594-90-1)	-	0.0179	0.143	0.2
Etofenprox (80844-07-1)	-	0.0179	0.143	0.4	Spirotetramat (203313-25-1)	-	0.0179	0.143	0.2
Etoxazole (153233-91-1)	-	0.0179	0.143	0.2	Spiroxamine (118134-30-8)	-	0.0179	0.143	0.4
Fenoxycarb (72490-01-8)	-	0.0179	0.143	0.2	Tebuconazole (80443-41-0)	-	0.0179	0.143	0.4
(E)-Fenpyroximate (134098-61-6)	-	0.0179	0.143	0.4	Thiacloprid (111988-49-9)	-	0.0179	0.143	0.2
Fipronil (120068-37-3)	-	0.0179	0.143	0.4	Thiamethoxam (153719-23-4)	-	0.0179	0.143	0.2
Fonicamid (158062-67-0)	-	0.0179	0.143	1	Trifloxystrobin (141517-21-7)	-	0.0179	0.143	0.2
Fludioxinil (131341-86-1)	-	0.0179	0.143	0.4					
Hexythiazox (78587-05-0)	-	0.0179	0.143	1					
Imazalil (35554-44-0)	-	0.0179	0.143	0.2					
Imidacloprid (138261-41-3)	-	0.0179	0.143	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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Cultivar (Strain) or Sample Description: Ice Cream Cake			Date Completed: 10/29/2022

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

Analysis Date/Time: 10/27/2022 1206 (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)	-	59.9	94.8	200
Cadmium (Cd)	-	59.9	94.8	200
Lead (Pb)	-	59.9	94.8	500
Mercury (Hg)	-	59.9	94.8	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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MICROBIOLOGICAL PROFILE (SOP: SOP-Micro-001)

Analysis Date/Time: 10/27/2022 1235 **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	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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