

**SUMMARY OF ANALYSIS (SAMPLE ID: SA34760)**

<b>Testing Location:</b> Arkansas 232 S. Broadview St. Greenbrier, AR 72058 License: ADH 113	<b>Customer ID:</b> 2161 River Valley Relief Cultivation 5601 Old Greenwood Rd Suite C Fort Smith, AR 72903 License: 00065C	<b>Order ID:</b> OR10360 <b>Lot Number:</b> M00065C13132431984 <b>Production Run:</b> 5026H20230209ICC-1	<b>Sample Type:</b> Primary <b>Matrix:</b> Flower <b>Mass:</b> 23g <b>Date Collected:</b> 03/20/2023 <b>Date Received:</b> 03/21/2023 <b>Date Completed:</b> 03/24/2023
<b>Cultivar (Strain) or Sample Description:</b> 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 (%)**

14.8

**Water Activity (aw)**

0.441 @ 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	31.3	313
CBGA	1.45	14.5
Δ9-THC	0.279	2.79
TOTAL CBD	-	-
TOTAL THC	27.7	277
TOTAL CANNABINOIDS	33.1	331

<b>Terpenes (Top 5)</b>	<b>(%)</b>	<b>µg/g</b>
Caryophyllene oxide	0.617	6170
β-Caryophyllene	0.478	4780
d-Limonene	0.320	3200
Linalool	0.196	1960
α-Humulene	0.157	1570
TOTAL TERPENES	2.03	20300

<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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<b>Cultivar (Strain) or Sample Description:</b> Ice Cream Cake			<b>Date Completed:</b> 03/24/2023

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

**Analysis Date/Time:** 3/22/2023 1520      **Method:** HPLC/DAD      **Moisture Content (%):** 14.8  
**Analyst:** PW      **Instrument:** Agilent 1100      **Water Activity (aw):** 0.441 @ 24.53°C

<u>Cannabinoid</u>	<u>Result (%)</u>	<u>Result (mg/g)</u>	<u>LOD (mg/g)</u>	<u>LOQ (mg/g)</u>	<u>Result (mg/mL)</u>	<u>Per Serving (mg)</u>	<u>Per Unit (mg)</u>
CBC	ND	ND	0.227	0.530	-	-	-
CBCA	ND	ND	0.705	1.65	-	-	-
CBD	ND	ND	1.60	3.74	-	-	-
CBDV	ND	ND	0.257	0.600	-	-	-
CBDVA	ND	ND	0.686	1.60	-	-	-
CBG	ND	ND	1.04	2.43	-	-	-
CBGA	1.45	14.5	0.745	1.74	-	14.5	14.5
CBL	ND	ND	1.20	2.81	-	-	-
CBN	ND	ND	0.552	1.29	-	-	-
CBNA	ND	ND	0.596	1.39	-	-	-
Δ9-THC	0.279	2.79	0.662	1.54	-	2.79	2.79
Δ8-THC	ND	ND	1.03	2.41	-	-	-
THCA	31.3	313	0.359	0.839	-	313	313
THCV	ND	ND	0.861	2.01	-	-	-
THCVA	0.132	1.32	0.275	0.640	-	1.32	1.32
<b>TOTAL</b>	<b>33.1</b>	<b>331</b>				<b>331</b>	<b>331</b>
<b>TOTAL CBC</b>	-	-				-	-
<b>TOTAL CBD</b>	-	-				-	-
<b>TOTAL CBDV</b>	-	-				-	-
<b>TOTAL CBG</b>	1.27	12.7				12.7	12.7
<b>TOTAL CBN</b>	-	-				-	-
<b>TOTAL THC</b>	27.7	277				277	277
<b>TOTAL THCV</b>	0.114	1.14				1.14	1.14



**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) + THCVA

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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<b>Cultivar (Strain) or Sample Description:</b> Ice Cream Cake			<b>Date Completed:</b> 03/24/2023

**TERPENOID PROFILE**

**Analysis Date/Time:** 03/22/2023 1648  
**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	277	0.0277	
δ-3-Carene	-	-	
β-Caryophyllene	4780	0.478	■
Caryophyllene oxide	6170	0.617	■
p-Cymene	-	-	
Eucalyptol	-	-	
Geraniol	-	-	
Guaiol	-	-	
α-Humulene	1570	0.157	■
Isopulegol	-	-	
d-Limonene	3200	0.320	■
Linalool	1960	0.196	■
β-Myrcene	406	0.0406	
cis-Nerolidol	-	-	
trans-Nerolidol	357	0.0357	
α-Ocimene	-	-	
β-Ocimene	-	-	
α-Pinene	479	0.0479	
β-Pinene	755	0.0755	■
α-Terpinene	-	-	
γ-Terpinene	-	-	
Terpinolene	353	0.0353	
<b>TOTAL</b>	<b>20300</b>	<b>2.03</b>	



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

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"-" Not detected above RL.

**Reporting Limit (µg/g): 45.4**

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

[www.FASTLaboratories.com](http://www.FASTLaboratories.com)



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

**Analysis Date/Time:** 03/23/2023 2118  
**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)	-	0.0454	0.363	0.5	Kresoxim-methyl (143390-89-0)	-	0.0454	0.363	0.4
Acephate (30560-19-1)	-	0.0454	0.363	0.4	Malathion (121-75-5)	-	0.0454	0.363	0.2
Acequinocyl (57960-19-7)	-	0.0454	0.363	2	Metalaxyl (57837-19-1)	-	0.0454	0.363	0.2
Acetamiprid (135410-20-7)	-	0.0454	0.363	0.2	Methiocarb (2032-65-7)	-	0.0454	0.363	0.2
Aldicarb (116-06-3)	-	0.0454	0.363	0.4	Methomyl (16752-77-5)	-	0.0454	0.363	0.4
Azoxystrobin (131860-33-8)	-	0.0454	0.363	0.2	Methyl parathion (298-0-0)	-	0.0454	0.363	0.2
Bifenazate (149877-41-8)	-	0.0454	0.363	0.2	MGK 264 (113-48-4)	-	0.0454	0.363	0.2
Bifenthrin (82657-04-3)	-	0.0454	0.363	0.2	Myclobutanil (88671-89-0)	-	0.0454	0.363	0.2
Boscalid (188425-85-6)	-	0.0454	0.363	0.4	Naled (300-76-5)	-	0.0454	0.363	0.5
Carbaryl (63-25-2)	-	0.0454	0.363	0.2	Oxamyl (23135-22-0)	-	0.0454	0.363	1
Carbofuran (1563-66-2)	-	0.0454	0.363	0.2	Pacllobutrazol (76738-62-0)	-	0.0454	0.363	0.4
Chlorantraniliprole (800008-45-7)	-	0.0454	0.363	0.2	Permethrins (52645-53-1)	-	0.0454	0.363	0.2
Chlorfenapyr (122453-73-0)	-	0.0454	0.363	1	Phosmet (732-11-6)	-	0.0454	0.363	0.2
Chlorpyrifos (2921-88-2)	-	0.0454	0.363	0.2	Piperonyl butoxide (51-03-6)	-	0.0454	0.363	2
Clofentezine (74115-24-5)	-	0.0454	0.363	0.2	Prallethrins (2331-36-9)	-	0.0454	0.363	0.2
Cyfluthrin (68359-37-5)	-	0.0454	0.363	1	Propiconazole (60207-90-1))	-	0.0454	0.363	0.4
Cypermethrin (52315-07-8)	-	0.0454	0.363	1	Propoxur (114-26-1)	-	0.0454	0.363	0.2
Daminozide (1596-84-5)	-	0.0454	0.363	1	Pyrethrins (8003-34-7)	-	0.0454	0.363	1
DDVP (62-73-7)	-	0.0454	0.363	0.1	Pyridaben (96489-71-3)	-	0.0454	0.363	0.2
Diazinon (333-41-5)	-	0.0454	0.363	0.2	Spinosad (168316-95-8)	-	0.0454	0.363	0.2
Dimethoate (60-51-5)	-	0.0454	0.363	0.2	Spiromesifen (283594-90-1)	-	0.0454	0.363	0.2
Ethoprophos (13194-48-4)	-	0.0454	0.363	0.2	Spirotetramat (203313-25-1)	-	0.0454	0.363	0.2
Etofenprox (80844-07-1)	-	0.0454	0.363	0.4	Spiroxamine (118134-30-8)	-	0.0454	0.363	0.4
Etoxazole (153233-91-1)	-	0.0454	0.363	0.2	Tebuconazole (80443-41-0)	-	0.0454	0.363	0.4
Fenoxycarb (72490-01-8)	-	0.0454	0.363	0.2	Thiacloprid (111988-49-9)	-	0.0454	0.363	0.2
(E)-Fenpyroximate (134098-61-6)	-	0.0454	0.363	0.4	Thiamethoxam (153719-23-4)	-	0.0454	0.363	0.2
Fipronil (120068-37-3)	-	0.0454	0.363	0.4	Trifloxystrobin (141517-21-7)	-	0.0454	0.363	0.2
Fonicamid (158062-67-0)	-	0.0454	0.363	1					
Fludioxinil (131341-86-1)	-	0.0454	0.363	0.4					
Hexythiazox (78587-05-0)	-	0.0454	0.363	1					
Imazalil (35554-44-0)	-	0.0454	0.363	0.2					
Imidacloprid (138261-41-3)	-	0.0454	0.363	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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*Kyle W. Felling*  
Kyle W. Felling, Ph.D.  
Laboratory Director





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<b>Cultivar (Strain) or Sample Description:</b> Ice Cream Cake			

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

<b>Analysis Date/Time:</b> 3/21/2023 2359 (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		

<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)	-	58.3	92.3	200
Cadmium (Cd)	-	58.3	92.3	200
Lead (Pb)	-	58.3	92.3	500
Mercury (Hg)	-	58.3	92.3	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:** 20230322 1337      **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**

**RESULT < AL**

**RESULT > AL**

**Reporting Limit (CFU/g)**  
1

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