

SUMMARY OF ANALYSIS (SAMPLE ID: SA34611)

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: OR10335 Lot Number: M00065C13130998152 Production Run: 4025H20230202WCK-2	Sample Type: Primary Matrix: Flower Mass: 9g Date Collected: 03/06/2023 Date Received: 03/07/2023 Date Completed: 03/13/2023
Cultivar (Strain) or Sample Description: Wedding 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 (%)

13.0

Water Activity (aw)

0.519 @ 24.6°C

PASS/FAIL

PASS

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

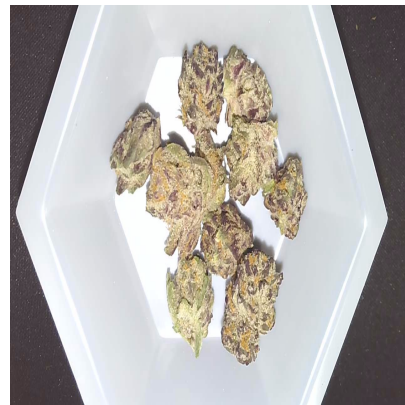
Moisture content levels less than 15% are recommended but the sample does not fail. Water activity levels must be less than 0.65aw.

Cannabinoids (Top 3)	(%)	mg/g
THCA	15.9	159
Δ9-THC	0.319	3.19
THCVA	0.223	2.23
TOTAL CBD	-	-
TOTAL THC	14.3	143
TOTAL CANNABINOIDS	16.8	168

Terpenes (Top 5)	(%)	µg/g
β-Caryophyllene	0.156	1560
d-Limonene	0.110	1100
Linalool	0.0605	605
β-Myrcene	0.0599	599
α-Humulene	0.0472	472
TOTAL TERPENES	0.703	7030

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: 3/13/2023 1227 **Method:** HPLC/DAD **Moisture Content (%):** 13
Analyst: PW **Instrument:** Agilent 1100 **Water Activity (aw):** 0.519 @ 24.57°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	<LOQ	<LOQ	0.0475	0.516	-	-	-
CBCA	0.169	1.69	0.0475	0.516	-	1.69	1.69
CBD	ND	ND	0.0475	0.516	-	-	-
CBDA	ND	ND	0.0475	0.516	-	-	-
CBDV	ND	ND	0.0475	0.516	-	-	-
CBDVA	ND	ND	0.0475	0.516	-	-	-
CBG	<LOQ	<LOQ	0.0475	0.516	-	-	-
CBGA	0.174	1.74	0.0475	0.516	-	1.74	1.74
CBL	ND	ND	0.0475	0.516	-	-	-
CBN	ND	ND	0.0475	0.516	-	-	-
CBNA	<LOQ	<LOQ	0.0475	0.516	-	-	-
Δ9-THC	0.319	3.19	0.0475	0.516	-	3.19	3.19
Δ8-THC	ND	ND	0.0475	0.516	-	-	-
THCA	15.9	159	0.0475	0.516	-	159	159
THCV	ND	ND	0.0475	0.516	-	-	-
THCVA	0.223	2.23	0.0475	0.516	-	2.23	2.23
TOTAL	16.8	168				168	168
TOTAL CBC	0.148	1.48				1.48	1.48
TOTAL CBD	-	-				-	-
TOTAL CBDV	-	-				-	-
TOTAL CBG	0.153	1.53				1.53	1.53
TOTAL CBN	-	-				-	-
TOTAL THC	14.3	143				143	143
TOTAL THCV	0.193	1.93				1.93	1.93



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 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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Cultivar (Strain) or Sample Description: Wedding Cake			Date Completed: 03/13/2023

TERPENOID PROFILE

Analysis Date/Time: 03/12/2023 1822
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	416	0.0416	■
Camphene	226	0.0226	■
δ-3-Carene	-	-	
β-Caryophyllene	1560	0.156	■
Caryophyllene oxide	357	0.0357	■
p-Cymene	-	-	
Eucalyptol	-	-	
Geraniol	-	-	
Guaiol	270	0.0270	■
α-Humulene	472	0.0472	■
Isopulegol	-	-	
d-Limonene	1100	0.110	■
Linalool	605	0.0605	■
β-Myrcene	599	0.0599	■
cis-Nerolidol	-	-	
trans-Nerolidol	-	-	
α-Ocimene	-	-	
β-Ocimene	360	0.0360	■
α-Pinene	367	0.0367	■
β-Pinene	472	0.0472	■
α-Terpinene	-	-	
γ-Terpinene	-	-	
Terpinolene	223	0.0223	■
TOTAL	7030	0.703	



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

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"-" Not detected above RL.

Reporting Limit (µg/g): 42.3

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

www.FASTLaboratories.com



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PESTICIDES PROFILE (SOP: SOP-PEST-001)

Analysis Date/Time: 03/08/2023 2241
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)	-	0.0423	0.339	0.5	Kresoxim-methyl (143390-89-0)	-	0.0423	0.339	0.4
Acephate (30560-19-1)	-	0.0423	0.339	0.4	Malathion (121-75-5)	-	0.0423	0.339	0.2
Acetamiprid (135410-20-7)	-	0.0423	0.339	0.2	Metalaxyl (57837-19-1)	-	0.0423	0.339	0.2
Aldicarb (116-06-3)	-	0.0423	0.339	0.4	Methiocarb (2032-65-7)	-	0.0423	0.339	0.2
Azoxystrobin (131860-33-8)	-	0.0423	0.339	0.2	Methomyl (16752-77-5)	-	0.0423	0.339	0.4
Bifenazate (149877-41-8)	-	0.0423	0.339	0.2	Methyl parathion (298-0-0)	-	0.0423	0.339	0.2
Bifenthrin (82657-04-3)	-	0.0423	0.339	0.2	MGK 264 (113-48-4)	-	0.0423	0.339	0.2
Boscalid (188425-85-6)	-	0.0423	0.339	0.4	Myclobutanil (88671-89-0)	-	0.0423	0.339	0.2
Carbaryl (63-25-2)	-	0.0423	0.339	0.2	Naled (300-76-5)	-	0.0423	0.339	0.5
Carbofuran (1563-66-2)	-	0.0423	0.339	0.2	Oxamyl (23135-22-0)	-	0.0423	0.339	1
Chlorantraniliprole (800008-45-7)	-	0.0423	0.339	0.2	Paclobutrazol (76738-62-0)	-	0.0423	0.339	0.4
Chlorfenapyr (122453-73-0)	-	0.0423	0.339	1	Permethrins (52645-53-1)	-	0.0423	0.339	0.2
Chlorpyrifos (2921-88-2)	-	0.0423	0.339	0.2	Phosmet (732-11-6)	-	0.0423	0.339	0.2
Clofentezine (74115-24-5)	-	0.0423	0.339	0.2	Piperonyl butoxide (51-03-6)	-	0.0423	0.339	2
Cyfluthrin (68359-37-5)	-	0.0423	0.339	1	Prallethrins (2331-36-9)	-	0.0423	0.339	0.2
Cypermethrin (52315-07-8)	-	0.0423	0.339	1	Propiconazole (60207-90-1))	-	0.0423	0.339	0.4
Daminozide (1596-84-5)	-	0.0423	0.339	1	Propoxur (114-26-1)	-	0.0423	0.339	0.2
DDVP (62-73-7)	-	0.0423	0.339	0.1	Pyrethrins (8003-34-7)	-	0.0423	0.339	1
Diazinon (333-41-5)	-	0.0423	0.339	0.2	Pyridaben (96489-71-3)	-	0.0423	0.339	0.2
Dimethoate (60-51-5)	-	0.0423	0.339	0.2	Spinosad (168316-95-8)	-	0.0423	0.339	0.2
Ethoprophos (13194-48-4)	-	0.0423	0.339	0.2	Spiromesifen (283594-90-1)	-	0.0423	0.339	0.2
Etofenprox (80844-07-1)	-	0.0423	0.339	0.4	Spirotetramat (203313-25-1)	-	0.0423	0.339	0.2
Etoxazole (153233-91-1)	-	0.0423	0.339	0.2	Spiroxamine (118134-30-8)	-	0.0423	0.339	0.4
Fenoxycarb (72490-01-8)	-	0.0423	0.339	0.2	Tebuconazole (80443-41-0)	-	0.0423	0.339	0.4
(E)-Fenpyroximate (134098-61-6)	-	0.0423	0.339	0.4	Thiacloprid (111988-49-9)	-	0.0423	0.339	0.2
Fipronil (120068-37-3)	-	0.0423	0.339	0.4	Thiamethoxam (153719-23-4)	-	0.0423	0.339	0.2
Fonicamid (158062-67-0)	-	0.0423	0.339	1	Trifloxystrobin (141517-21-7)	-	0.0423	0.339	0.2
Fludioxinil (131341-86-1)	-	0.0423	0.339	0.4					
Hexythiazox (78587-05-0)	-	0.0423	0.339	1					
Imazalil (35554-44-0)	-	0.0423	0.339	0.2					
Imidacloprid (138261-41-3)	-	0.0423	0.339	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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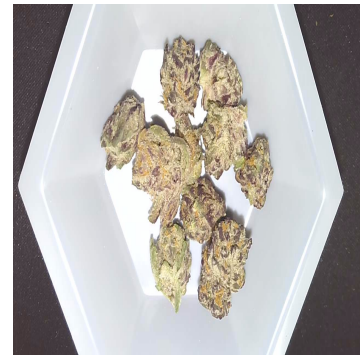
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HEAVY METAL PROFILE (SOP: SOP-ICP-200.7)

Analysis Date/Time: 3/10/2023 0905 (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> <u>(µg/kg)</u>	<u>LOD</u> <u>(µg/kg)</u>	<u>LOQ</u> <u>(µg/kg)</u>	<u>Action Level</u> <u>(µg/kg)</u>
Arsenic (As)	-	58.9	93.2	200
Cadmium (Cd)	-	58.9	93.2	200
Lead (Pb)	-	58.9	93.2	500
Mercury (Hg)	-	58.9	93.2	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

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

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



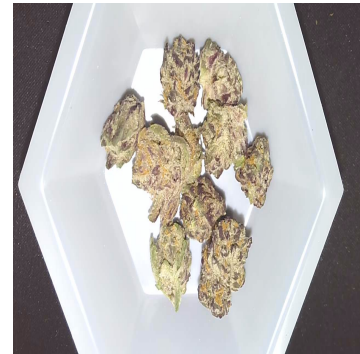
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MICROBIOLOGICAL PROFILE (SOP: SOP-Micro-001)

Analysis Date/Time: 20230309 113	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

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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