

SUMMARY OF ANALYSIS (SAMPLE ID: SA34673)

Testing Location:	Customer ID: 2161	Order ID: OR10347	Sample Type: Primary
Arkansas	River Valley Relief Cultivation	Lot Number:	Matrix: Flower
232 S. Broadview St.	5601 Old Greenwood Rd Suite C	M00065C13135558584	Mass: 16g
Greenbrier, AR 72058	Fort Smith, AR 72903	Production Run:	Date Collected: 03/13/2023
License: ADH 113	License: 00065C	4025H20230202BBC-1	Date Received: 03/13/2023
Cultivar (Strain) or Sample Description: Blackberry Cheesecake			Date Completed: 03/17/2023

*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 (%)

13.5

Water Activity (aw)

0.554 @ 24.1°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	15.7	157
THCVA	0.472	4.72
Δ9-THC	0.352	3.52
TOTAL CBD	-	-
TOTAL THC	14.1	141
TOTAL CANNABINOIDS	16.9	169

Terpenes (Top 5)	(%)	µg/g
d-Limonene	0.154	1540
α-Bisabolol	0.0811	811
α-Pinene	0.0752	752
β-Caryophyllene	0.0666	666
β-Pinene	0.0616	616
TOTAL TERPENES	0.669	6690

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



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

Analysis Date/Time: 3/15/2023 1253

Method: HPLC/DAD

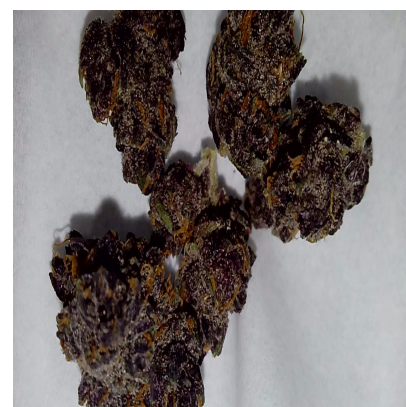
Moisture Content (%): 13.5

Analyst: PW

Instrument: Agilent 1100

Water Activity (aw): 0.554 @ 24.09°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	0.221	0.515	-	-	-
CBCA	ND	ND	0.686	1.60	-	-	-
CBD	ND	ND	1.56	3.64	-	-	-
CBDV	ND	ND	0.573	1.34	-	-	-
CBDVA	ND	ND	0.250	0.583	-	-	-
CBDVA	ND	ND	0.666	1.56	-	-	-
CBG	ND	ND	1.01	2.36	-	-	-
CBGA	0.308	3.08	0.724	1.69	-	3.08	3.08
CBL	ND	ND	1.17	2.73	-	-	-
CBN	ND	ND	0.536	1.25	-	-	-
CBNA	ND	ND	0.579	1.35	-	-	-
Δ9-THC	0.352	3.52	0.643	1.50	-	3.52	3.52
Δ8-THC	ND	ND	1.00	2.34	-	-	-
THCA	15.7	157	0.349	0.815	-	157	157
THCV	ND	ND	0.837	1.95	-	-	-
THCVA	0.472	4.72	0.267	0.622	-	4.72	4.72
TOTAL	16.9	169			-	169	169
TOTAL CBC	-	-			-	-	-
TOTAL CBD	-	-			-	-	-
TOTAL CBDV	-	-			-	-	-
TOTAL CBG	0.270	2.70			-	2.70	2.70
TOTAL CBN	-	-			-	-	-
TOTAL THC	14.1	141			-	141	141
TOTAL THCVA	0.409	4.09			-	4.09	4.09



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 THCVA = (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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Laboratory Director



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Cultivar (Strain) or Sample Description: Blackberry Cheesecake			Date Completed: 03/17/2023

TERPENOID PROFILE

Analysis Date/Time: 03/15/2023 2054

Analyst: KF

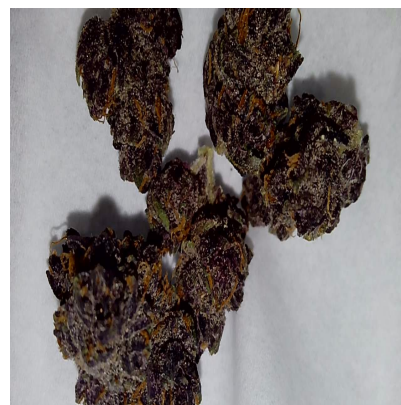
Method: GC/MS

Instrument: Agilent 7890/5975

Deviations from SOP:

None

Terpene	Result (µg/g)	Result (%)	
α-Bisabolol	811	0.0811	■
Camphene	245	0.0245	■
δ-3-Carene	-	-	
β-Caryophyllene	666	0.0666	■
Caryophyllene oxide	-	-	
p-Cymene	-	-	
Eucalyptol	-	-	
Geraniol	-	-	
Guaiol	-	-	
α-Humulene	295	0.0295	■
Isopulegol	-	-	
d-Limonene	1540	0.154	■
Linalool	562	0.0562	■
β-Myrcene	329	0.0329	■
cis-Nerolidol	-	-	
trans-Nerolidol	110	0.0110	■
α-Ocimene	121	0.0121	■
β-Ocimene	397	0.0397	■
α-Pinene	752	0.0752	■
β-Pinene	616	0.0616	■
α-Terpinene	-	-	
γ-Terpinene	-	-	
Terpinolene	245	0.0245	■
TOTAL	6690	0.669	



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

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"-" Not detected above RL.

Reporting Limit (µg/g): 45.0

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Cultivar (Strain) or Sample Description: Blackberry Cheesecake **Date Completed:** 03/17/2023

PESTICIDES PROFILE (SOP: SOP-PEST-001)

Analysis Date/Time: 03/15/2023 1353

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)	-	0.0450	0.360	0.5	Kresoxim-methyl (143390-89-0)	-	0.0450	0.360	0.4
Acephate (30560-19-1)	-	0.0450	0.360	0.4	Malathion (121-75-5)	-	0.0450	0.360	0.2
Acetaminophen (57960-19-7)	-	0.0450	0.360	2	Metalaxyl (57837-19-1)	-	0.0450	0.360	0.2
Acetamiprid (135410-20-7)	-	0.0450	0.360	0.2	Methiocarb (2032-65-7)	-	0.0450	0.360	0.2
Aldicarb (116-06-3)	-	0.0450	0.360	0.4	Methomyl (16752-77-5)	-	0.0450	0.360	0.4
Azoxystrobin (131860-33-8)	-	0.0450	0.360	0.2	Methyl parathion (298-0-0)	-	0.0450	0.360	0.2
Bifenazate (149877-41-8)	-	0.0450	0.360	0.2	MGK 264 (113-48-4)	-	0.0450	0.360	0.2
Bifenthrin (82657-04-3)	-	0.0450	0.360	0.2	Myclobutanil (88671-89-0)	-	0.0450	0.360	0.2
Boscalid (188425-85-6)	-	0.0450	0.360	0.4	Naled (300-76-5)	-	0.0450	0.360	0.5
Carbaryl (63-25-2)	-	0.0450	0.360	0.2	Oxamyl (23135-22-0)	-	0.0450	0.360	1
Carbofuran (1563-66-2)	-	0.0450	0.360	0.2	Paclobutrazol (76738-62-0)	-	0.0450	0.360	0.4
Chlorantraniliprole (800008-45-7)	-	0.0450	0.360	0.2	Permethrins (52645-53-1)	-	0.0450	0.360	0.2
Chlorfenapyr (122453-73-0)	-	0.0450	0.360	1	Phosmet (732-11-6)	-	0.0450	0.360	0.2
Chlorpyrifos (2921-88-2)	-	0.0450	0.360	0.2	Piperonyl butoxide (51-03-6)	-	0.0450	0.360	2
Clofentezine (74115-24-5)	-	0.0450	0.360	0.2	Prallethrin (2331-36-9)	-	0.0450	0.360	0.2
Cyfluthrin (68359-37-5)	-	0.0450	0.360	1	Propiconazole (60207-90-1)	-	0.0450	0.360	0.4
Cypermethrin (52315-07-8)	-	0.0450	0.360	1	Propoxur (114-26-1)	-	0.0450	0.360	0.2
Daminozide (1596-84-5)	-	0.0450	0.360	1	Pyrethrins (8003-34-7)	-	0.0450	0.360	1
DDVP (62-73-7)	-	0.0450	0.360	0.1	Pyridaben (96489-71-3)	-	0.0450	0.360	0.2
Diazinon (333-41-5)	-	0.0450	0.360	0.2	Spinosad (168316-95-8)	-	0.0450	0.360	0.2
Dimethoate (60-51-5)	-	0.0450	0.360	0.2	Spiromesifen (283594-90-1)	-	0.0450	0.360	0.2
Ethoprophos (13194-48-4)	-	0.0450	0.360	0.2	Spirotetramat (203313-25-1)	-	0.0450	0.360	0.2
Etofenprox (80844-07-1)	-	0.0450	0.360	0.4	Spiroxamine (118134-30-8)	-	0.0450	0.360	0.4
Etoazoxole (153233-91-1)	-	0.0450	0.360	0.2	Tebuconazole (80443-41-0)	-	0.0450	0.360	0.4
Fenoxycarb (72490-01-8)	-	0.0450	0.360	0.2	Thiacloprid (111988-49-9)	-	0.0450	0.360	0.2
(E)-Fenpyroximate (134098-61-6)	-	0.0450	0.360	0.4	Thiamethoxam (153719-23-4)	-	0.0450	0.360	0.2
Fipronil (120068-37-3)	-	0.0450	0.360	0.4	Trifloxystrobin (141517-21-7)	-	0.0450	0.360	0.2
Flonicamid (158062-67-0)	-	0.0450	0.360	1					
Fludioxinil (131341-86-1)	-	0.0450	0.360	0.4					
Hexythiazox (78587-05-0)	-	0.0450	0.360	1					
Imazalil (35554-44-0)	-	0.0450	0.360	0.2					
Imidacloprid (138261-41-3)	-	0.0450	0.360	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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HEAVY METAL PROFILE (SOP: SOP-ICP-200.7)

Analysis Date/Time: 3/15/2023 0802 (ICP/OES)	Method: ICP/OES	Deviations from SOP:
Analysis Date/Time: - (DMA)	Instrument: Agilent 720-ES	None
Analyst: KF		

Heavy Metal	Result (µg/kg)	LOD (µg/kg)	LOQ (µg/kg)	Action Level (µg/kg)
Arsenic (As)	-	58.0	91.8	200
Cadmium (Cd)	-	58.0	91.8	200
Lead (Pb)	-	58.0	91.8	500
Mercury (Hg)	-	58.0	91.8	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

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MICROBIOLOGICAL PROFILE (SOP: SOP-Micro-001)

Analysis Date/Time: 20230315 1323	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

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