







SUMMARY OF ANALYSIS (SAMPLE ID: SA32171)

Testing Location:Customer ID: 2161Order ID: OR9999Sample Type: PrimaryArkansasRiver Valley Relief CultivationLot Number:Matrix: Flower232 S. Broadview St.5601 Old Greenwood Rd Suite CM00065C13139867925Mass: 23g

Greenbrier, AR 72058 Fort Smith, AR 72903 **Production Run: Date Collected:** 08/31/2022 License: ADH 113 License: 00065C 6006H20220617bbc1 **Date Received:** 09/01/2022 **Cultivar (Strain) or Sample Description:** Blackberry Cheesecake **Date Completed:** 09/06/2022

*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 (%)
 Water Activity (aw)
 PASS/FAIL

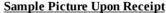
 14.7
 0.550 @ 25.1°C
 PASS

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.

Cannabino	oids (Top 3)	<u>(%)</u>	mg/g
ТН	CA	10.8	108
THO	CVA	0.389	3.89
Δ9-7	ГНС	0.352	3.52
TOTA	L CBD	-	-
TOTA	L THC	9.82	98.2
TOTAL CAN	NABINOIDS	11.7	117
<u>Terpene</u>	s (Top 5)	<u>(%)</u>	<u>µg/g</u>
d-Lim	onene	0.210	2100
β-Caryo	phyllene	0.172	1720
T :	Linalool		000
Lina	11001	0.0990	990
	nene	0.0990 0.0936	990 936
α-Pi			
α-Pi	nene	0.0936	936

Contaminants	PASS/FAIL
Heavy Metals:	PASS
Microbiology:	PASS
Pesticides:	PASS







Scan the QR code to verify results.

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CERTIFICATE OF ANALYSIS (SAMPLE ID: SA32171)

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: OR9999 Lot Number:

M00065C13139867925

Production Run: 6006H20220617bbc1 Sample Type: Primary

Matrix: Flower

Mass: 23g

Date Collected: 08/31/2022 **Date Received:** 09/01/2022

Date Completed: 09/06/2022

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

Method: HPLC/DAD **Analysis Date/Time:** 9/2/2022 1345 Moisture Content (%): 14.7

Analyst: PW Instrument: Agilent 1100

Cultivar (Strain) or Sample Description: Blackberry Cheesecake

Water Activity (aw): 0.55 @ 25.06°C



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 = $(CBCA \times 0.877) + CBC$ Total CBD = $(CBDA \times 0.877) + CBD$ Total CBDV = $(CBDVA \times 0.867) + CBDV$ Total CBG = $(CBGA \times 0.878) + CBG$ Total CBN = $(CBNA \times 0.876) + CBN$ Total THC = (THCA x 0.877) + Δ 9-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.

Cannabinoid	Result (%)	<u>UM</u> (+/-%)	Result (mg/g)	LOQ (mg/g)	Result (mg/ mL)	Per Serving (mg)	<u>Per</u> g <u>Unit</u> (mg)
CBC	-	-	-	0.332	-	-	-
CBCA	-	-	-	0.332	-	-	-
CBD	-	-	-	0.332	-	-	-
CBDA	-	-	-	0.332	-	-	-
CBDV	-	-	-	0.332	-	-	-
CBDVA	-	-	-	0.332	-	-	-
CBG	-	-	-	0.332	-	-	-
CBGA	0.185	0.0203	1.85	0.332	-	1.85	1.85
CBL	-	-	-	0.332	-	-	-
CBN	-	-	-	0.332	-	-	-
CBNA	-	-	-	0.332	-	-	-
Δ9-ΤΗС	0.352	0.0598	3.52	0.332	-	3.52	3.52
Δ8-ΤΗС	-	-	-	0.332	-	-	-
THCA	10.8	1.08	108	0.332	-	108	108
THCV	-	-	-	0.332	-	-	-
THCVA	0.389	0.0194	3.89	0.332	-	3.89	3.89
TOTAL	11.7	1.18	117		-	117	117
TOTAL CBC	-	-	-		-	-	-
TOTAL CBD	-	-	-		-	-	-
TOTAL CBDV	-	-	-		-	-	-
TOTAL CBG	0.162	0.0178	1.62		-	1.62	1.62
TOTAL CBN	-	-	-		-	-	-
TOTAL THC	9.82	1.01	98.2		-	98.2	98.2
TOTAL THCV	0.337	0.0169	3.37		-	3.37	3.37
* 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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CERTIFICATE OF ANALYSIS (SAMPLE ID: SA32171)

Testing Location: Arkansas

232 S. Broadview St. Greenbrier, AR 72058

License: ADH 113

Terpene

α-Bisabolol Camphene

δ-3-Carene β-Caryophyllene

oxide p-Cymene Eucalyptol Geraniol Guaiol

Caryophyllene

α-Humulene

Isopulegol

Linalool

β-Myrcene

cis-Nerolidol

α-Ocimene

β-Ocimene

α-Pinene

B-Pinene

α-Terpinene y-Terpinene Terpinolene

trans-Nerolidol

d-Limonene

Customer ID: 2161

River Valley Relief Cultivation 5601 Old Greenwood Rd Suite C

> Result <u>(%)</u>

0.0154

0.0191

0.172

0.0124

0.0546

0.210

0.0990

0.0307

0.0566

0.0936

0.0621

Fort Smith, AR 72903 License: 00065C

Order ID: OR9999 Lot Number:

M00065C13139867925

Production Run: 6006H20220617bbc1 Sample Type: Primary

Matrix: Flower **Mass:** 23g

Date Collected: 08/31/2022 **Date Received:** 09/01/2022

Date Completed: 09/06/2022

TERPENOID PROFILE

Analysis Date/Time:9/2/2022 1745 Method: GC/MS

Cultivar (Strain) or Sample Description: Blackberry Cheesecake

Analyst: KF Instrument: Agilent 7890/5975

Result

 $(\mu g/g)$ 154

191

1720

124

546

2100

990

307

566

936

621

Deviations from SOP:

None



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

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"-" Not detected above RL

TOTAL 8260 0.826 Reporting Limit (µg/g): 18.3













CERTIFICATE OF ANALYSIS (SAMPLE ID: SA32171)

Testing Location:

Arkansas 232 S. Broadview St.

Greenbrier, AR 72058 License: ADH 113

Analyst: KF

Customer ID: 2161

River Valley Relief Cultivation 5601 Old Greenwood Rd Suite C

Fort Smith, AR 72903

License: 00065C

Order ID: OR9999 Lot Number:

M00065C13139867925

Production Run: 6006H20220617bbc1 Sample Type: Primary

Matrix: Flower **Mass:** 23g

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PESTICIDES PROFILE (SOP: SOP-PEST-001)

Analysis Date/Time: 9/2/2022 1712

Cultivar (Strain) or Sample Description: Blackberry Cheesecake

Method: LC/MS/MS

Instrument: Shimadzu LC-8050

Deviations from SOP:

None

<u>Pesticide</u>	<u>Result</u> (μg/g)	<u>LOD</u> (µg/g)	LOQ (µg/g)	<u>Action</u> <u>Level</u> (μg/g)	<u>Pesticide</u>	Result (μg/g)	<u>LOD</u> (µg/g)	LOQ (µg/g)	<u>Action</u> <u>Level</u> (μg/g)
Abamectin (71751-41-2)	-	0.0183	0.147	0.5	Kresoxim-methyl	_	0.0183	0.147	0.4
Acephate (30560-19-1)	-	0.0183	0.147	0.4	(143390-89-0)				
Acequinocyl (57960-19-7)	-	0.0183	0.147	2	Malathion (121-75-5)	-	0.0183	0.147	0.2
Acetamiprid (135410-20-7)	-	0.0183	0.147	0.2	Metalaxyl (57837-19-1) Methiocarb (2032-65-7)	-	0.0183 0.0183	0.147 0.147	0.2 0.2
Aldicarb (116-06-3)	_	0.0183	0.147	0.4	Methomyl (16752-77-5)	-	0.0183	0.147	0.4
Azoxystrobin (131860-33-8)	-	0.0183	0.147	0.2	Methyl parathion (298-0-0)	-	0.0183	0.147	0.2
Bifenazate (149877-41-8)	-	0.0183	0.147	0.2	MGK 264 (113-48-4)	-	0.0183	0.147	0.2
Bifenthrin (82657-04-3)	-	0.0183	0.147	0.2	Myclobutanil		0.0183	0.147	0.2
Boscalid (188425-85-6)	-	0.0183	0.147	0.4	(88671-89-0)	_	0.0103	0.147	0.2
Carbaryl (63-25-2)	-	0.0183	0.147	0.2	Naled (300-76-5)	-	0.0183	0.147	0.5
Carbofuran (1563-66-2)	-	0.0183	0.147	0.2	Oxamyl (23135-22-0)	-	0.0183	0.147	1
Chlorantraniliprole (800008-45-7)	-	0.0183	0.147	0.2	Paclobutrazol (76738-62-0)	-	0.0183	0.147	0.4
Chlorfenapyr					Permethrins (52645-53-1)	-	0.0183	0.147	0.2
(122453-73-0)	-	0.0183	0.147	1	Phosmet (732-11-6)	-	0.0183	0.147	0.2
Chlorpyrifos (2921-88-2)	-	0.0183	0.147	0.2	Piperonyl butoxide	_	0.0183	0.147	2
Clofentezine (74115-24-5)	-	0.0183	0.147	0.2	(51-03-6)		0.0102	0.1.47	0.0
Cyfluthrin (68359-37-5)	-	0.0183	0.147	1	Prallethrins (2331-36-9)	-	0.0183	0.147	0.2
Cypermethrin (52315-07-8)	-	0.0183	0.147	1	Propiconazole (60207-90-1))	-	0.0183	0.147	0.4
Daminozide (1596-84-5)	-	0.0183	0.147	1	Propoxur (114-26-1)	-	0.0183	0.147	0.2
DDVP (62-73-7)	-	0.0183	0.147	0.1	Pyrethrins (8003-34-7)	-	0.0183	0.147	1
Diazinon (333-41-5)	-	0.0183	0.147	0.2	Pyridaben (96489-71-3)	-	0.0183	0.147	0.2
Dimethoate (60-51-5)	-	0.0183	0.147	0.2	Spinosad (168316-95-8)	-	0.0183	0.147	0.2
Ethoprophos (13194-48-4)	-	0.0183	0.147	0.2	Spiromesifen (283594-90-1)	-	0.0183	0.147	0.2
Etofenprox (80844-07-1)	-	0.0183	0.147	0.4	Spirotetramat				
Etoxazole (153233-91-1)	-	0.0183	0.147	0.2	(203313-25-1)	-	0.0183	0.147	0.2
Fenoxycarb (72490-01-8)	-	0.0183	0.147	0.2	Spiroxamine	_	0.0183	0.147	0.4
(E)-Fenpyroximate (134098-61-6)	-	0.0183	0.147	0.4	(118134-30-8) Tebuconazole		0.0183	0.147	0.4
Fipronil (120068-37-3)	-	0.0183	0.147	0.4	(80443-41-0)	_	0.0103	0.147	0.4
Flonicamid (158062-67-0)	-	0.0183	0.147	1	Thiacloprid	_	0.0183	0.147	0.2
Fludioxinil (131341-86-1)	-	0.0183	0.147	0.4	(111988-49-9)				
Hexythiazox (78587-05-0)	-	0.0183	0.147	1	Thiamethoxam (153719-23-4)	-	0.0183	0.147	0.2
Imazalil (35554-44-0)	-	0.0183	0.147	0.2	Trifloxystrobin		0.0102	0.147	0.2
Imidacloprid (138261-41-3)	-	0.0183	0.147	0.4	(141517-21-7)		0.0183	0.147	0.2



Color Key

"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

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

<u>Pesticide</u>	Synonym(s)	<u>Pesticide</u>	Synonym(s)	<u>Pesticide</u>	Synonym(s)
Cyfluthrin	Baythroid	Myclobutanil	Systhane	Propiconazole	Tilt
DDVP	Dichlorvos	Naled	Dibrom	Propoxur	Baygon
Ethoprophos	Prophos	Phosmet	Imidan		













Date Collected: 08/31/2022

Date Received: 09/01/2022

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Testing Location:Customer ID: 2161Order ID: OR9999Sample Type: PrimaryArkansasRiver Valley Relief CultivationLot Number:Matrix: Flower232 S. Broadview St.5601 Old Greenwood Rd Suite CM00065C13139867925Mass: 23g

Greenbrier, AR 72058 Fort Smith, AR 72903 **Production Run:**License: ADH 113 License: 00065C 6006H20220617bbc1

Cultivar (Strain) or Sample Description: Blackberry Cheesecake **Date Completed:** 09/06/2022

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

Analysis Date/Time: 09/02/2022 0747 (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> (μg/kg)	<u>LOD</u> (µg/kg)	<u>LOQ</u> (µg/kg)	<u>Action Level</u> (μg/kg)
Arsenic (As)	-	55.9	88.6	200
Cadmium (Cd)	-	55.9	88.6	200
Lead (Pb)	-	55.9	88.6	500
Mercury (Hg)	_	55.9	88.6	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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232 S. Broadview St.





M00065C13139867925



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Testing Location:Customer ID: 2161Sample ID: SA32171Sample Type: PrimaryArkansasRiver Valley Relief CultivationLot Number:Matrix: Flower

Greenbrier, AR 72058 Fort Smith, AR 72903 **Production Run:** Date Collected: 08/31/2022 License: ADA 05_H273 License: 00065C 6006H20220617bbc1 Date Received: 09/01/2022

Cultivar (Strain) or Sample Description: Blackberry Cheesecake **Date Completed:** 09/06/2022

MICROBIOLOGICAL PROFILE (SOP: SOP-Micro-001)

Analysis Date/Time: 20220902 1327 **Method:** Hardy Diagnostics CompactDry **Deviations from SOP:**

Analyst: PW Instrument: Thermo Incubator None

5601 Old Greenwood Rd Suite C

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	-



Mass: 23g

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)

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