







## **SUMMARY OF ANALYSIS (SAMPLE ID: SA35285)**

Order ID: OR10467 **Testing Location:** Customer ID: 2161 Sample Type: Primary Arkansas River Valley Relief Cultivation Lot Number: Matrix: Flower 232 S. Broadview St. 5601 Old Greenwood Rd Suite C M00065C13136928496 **Mass:** 19g

Greenbrier, AR 72058 Fort Smith, AR 72903 **Production Run: Date Collected:** 05/23/2023 5033H20230424BBC-2 License: ADH 113 License: 00065C **Date Received:** 05/23/2023 Cultivar (Strain) or Sample Description: BlackBerry Cheesecake **Date Completed:** 05/25/2023

\*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

> PASS/FAIL Water Activity (aw) **Moisture Content (%)** 0.481 @ 24.7°C **PASS** 124

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.

Cannabinoi	ds (Top 3)	<u>(%)</u>	mg/g
THO	ŽA –	16.1	161
Δ9-Τ	HC	0.497	4.97
THC	VA	0.448	4.48
TOTAL	CBD	-	-
TOTAL	THC	14.6	146
TOTAL CANN	IABINOIDS	17.3	173
Terpenes	(Top 5)	<u>(%)</u>	µg/g
d-Limo	nene	0.360	3600
α-Pin	ene	0.218	2180
β-Ocir	nene	0.181	1810
β-Pin	ene	0.147	1470
Linal	ool	0.0836	836
TOTAL TE	RPENES	1.28	12800
Contaminants PASS/FAIL		Sample Pictur	re Upon Receipt

<b>Contaminants</b>	PASS/FAIL
Heavy Metals:	PASS
Microbiology:	PASS
Pesticides:	PASS







Scan the QR code to verify results.

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Sample Type: Primary

Matrix: Flower

### **CERTIFICATE OF ANALYSIS (SAMPLE ID: SA35285)**

**Testing Location:** Customer ID: 2161 Arkansas River Valley Relief Cultivation 232 S. Broadview St. 5601 Old Greenwood Rd Suite C Greenbrier, AR 72058 Fort Smith, AR 72903

License: ADH 113 License: 00065C Order ID: OR10467 Lot Number: M00065C13136928496 **Production Run:** 

**Mass:** 19g **Date Collected:** 05/23/2023 5033H20230424BBC-2 **Date Received:** 05/23/2023

Cultivar (Strain) or Sample Description: BlackBerry Cheesecake **Date Completed:** 05/25/2023

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

**Analysis Date/Time:** 05/23/2023 1610 Method: HPLC/DAD

**Analyst: PW Instrument:** Agilent 1100

<u>Cannabinoid</u>	Result (%)	Result (mg/g)	LOD (mg/g)	LOQ (mg/g)	Result (mg/ mL)	Per Serving (mg)	Per Unit (mg)
CBC	ND	ND	0.0385	0.0898	-	-	-
CBCA	ND	ND	0.119	0.279	-	-	-
CBD	ND	ND	0.271	0.634	-	-	-
CBDA	ND	ND	0.0999	0.233	-	-	-
CBDV	ND	ND	0.0435	0.102	-	-	-
CBDVA	ND	ND	0.116	0.271	-	-	-
CBG	ND	ND	0.176	0.411	-	-	-
CBGA	0.269	2.69	0.250	0.295	-	2.69	2.69
CBL	ND	ND	0.204	0.475	-	-	-
CBN	ND	ND	0.0935	0.218	-	-	-
CBNA	ND	ND	0.101	0.235	-	-	-
Δ9-ΤΗС	0.497	4.97	0.112	0.261	-	4.97	4.97
Δ8-ΤΗС	ND	ND	0.175	0.408	-	-	-
THCA	16.1	161	0.0608	0.142	-	161	161
THCV	ND	ND	0.146	0.340	-	-	-
THCVA	0.448	4.48	0.0466	0.108		4.48	4.48
TOTAL	17.3	173			_	173	173
TOTAL CBC	-	-			-	-	-
TOTAL CBD	-	-			-	-	-
TOTAL CBDV	-	-			-	-	-
TOTAL CBG	0.236	2.36			-	2.36	2.36
TOTAL CBN	-	-			-	-	-
TOTAL THC	14.6	146			-	146	146
TOTAL THCV	0.388	3.88			-	3.88	3.88

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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Moisture Content (%): 12.4

Water Activity (aw): 0.481 @ 24.7°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) +  $\Delta$ 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.







Greenbrier, AR 72058

License: ADH 113







### **CERTIFICATE OF ANALYSIS (SAMPLE ID: SA35285)**

**Testing Location:** Customer ID: 2161 Arkansas River Valley Relief Cultivation 232 S. Broadview St. 5601 Old Greenwood Rd Suite C

Cultivar (Strain) or Sample Description: BlackBerry Cheesecake

Fort Smith, AR 72903 License: 00065C

Order ID: OR10467 Lot Number: M00065C13136928496

**Production Run:** 5033H20230424BBC-2 Sample Type: Primary Matrix: Flower

**Mass:** 19g

**Date Collected:** 05/23/2023 **Date Received:** 05/23/2023

**Date Completed:** 05/25/2023

#### TERPENOID PROFILE

Analysis Date/Time:05/23/2023 2248 Method: GC/MS **Deviations from SOP: Analyst: KF** Instrument: Agilent 7890/5975 None

<u>Terpene</u>	Result	Result	
	<u>(µg/g)</u>	<u>(%)</u>	
α-Bisabolol	-	-	
Camphene	272	0.0272	ļ
δ-3-Carene	26.8	0.00268	
β-Caryophyllene	701	0.0701	
Caryophyllene oxide	-	-	
p-Cymene	17.3	0.00173	
Eucalyptol	-	-	
Geraniol	-	-	
Guaiol	-	-	
α-Humulene	225	0.0225	
Isopulegol	-	-	
d-Limonene	3600	0.360	
Linalool	836	0.0836	
β-Myrcene	399	0.0399	
cis-Nerolidol	669	0.0669	
trans-Nerolidol	481	0.0481	
α-Ocimene	39.6	0.00396	
β-Ocimene	1810	0.181	
α-Pinene	2180	0.218	
β-Pinene	1470	0.147	
α-Terpinene	21.0	0.00210	
γ-Terpinene	13.8	0.00138	
Terpinolene	65.6	0.00656	
TOTAL	12800	1.28	



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

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"-" Not detected above RL

Reporting Limit (µg/g): 49.6 TOTAL 12800 1.28





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### **CERTIFICATE OF ANALYSIS (SAMPLE ID: SA35285)**

**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

Cultivar (Strain) or Sample Description: BlackBerry Cheesecake

Order ID: OR10467

Lot Number:

M00065C13136928496

**Production Run:** 5033H20230424BBC-2

**Sample Type:** Primary

Matrix: Flower

**Mass:** 19g

**Date Collected:** 05/23/2023 **Date Received:** 05/23/2023

**Date Completed:** 05/25/2023

PESTICIDES PROFILE (SOP: SOP-PEST-001)

**Analysis Date/Time:** 05/24/2023 0916

Analyst: KF

Method: LC/MS/MS

**Instrument:** Shimadzu LC-8050

**Deviations from SOP:** 

None

•									
<u>Pesticide</u>	Result (μg/g)	LOD (µg/g)	LOQ (µg/g)	<u>Action</u> <u>Level</u> (μg/g)	<u>Pesticide</u>	<u>Result</u> (μg/g)	LOD (µg/g)	LOQ (µg/g)	Action Level (µg/g)
Abamectin (71751-41-2)	-	0.0421	0.337	0.5	Kresoxim-methyl	_	0.0421	0.337	0.4
Acephate (30560-19-1)	-	0.0421	0.337	0.4	(143390-89-0)				
Acequinocyl (57960-19-7)	-	0.0421	0.337	2	Malathion (121-75-5)	-	0.0421	0.337	0.2
Acetamiprid (135410-20-7)	-	0.0421	0.337	0.2	Metalaxyl (57837-19-1) Methiocarb (2032-65-7)	-	0.0421 0.0421	0.337 0.337	0.2 0.2
Aldicarb (116-06-3)	-	0.0421	0.337	0.4	Methomyl (16752-77-5)	-	0.0421	0.337	0.4
Azoxystrobin (131860-33-8)	-	0.0421	0.337	0.2	Methyl parathion (298-0-0)	-	0.0421	0.337	0.2
Bifenazate (149877-41-8)	-	0.0421	0.337	0.2	MGK 264 (113-48-4)	-	0.0421	0.337	0.2
Bifenthrin (82657-04-3)	-	0.0421	0.337	0.2	Myclobutanil	_	0.0421	0.337	0.2
Boscalid (188425-85-6)	-	0.0421	0.337	0.4	(88671-89-0)		0.0421		
Carbaryl (63-25-2)	-	0.0421	0.337	0.2	Naled (300-76-5)	-	0.0421	0.337	0.5
Carbofuran (1563-66-2)	-	0.0421	0.337	0.2	Oxamyl (23135-22-0)	-	0.0421	0.337	1
Chlorantraniliprole (800008-45-7)	-	0.0421	0.337	0.2	Paclobutrazol (76738-62-0)	-	0.0421	0.337	0.4
Chlorfenapyr (122453-73-0)	-	0.0421	0.337	1	Permethrins (52645-53-1) Phosmet (732-11-6)	-	0.0421 0.0421	0.337 0.337	0.2 0.2
Chlorpyrifos (2921-88-2)	-	0.0421	0.337	0.2	Piperonyl butoxide		0.0421	0.337	2
Clofentezine (74115-24-5)	-	0.0421	0.337	0.2	(51-03-6)	_	0.0421	0.337	2
Cyfluthrin (68359-37-5)	-	0.0421	0.337	1	Prallethrins (2331-36-9)	-	0.0421	0.337	0.2
Cypermethrin (52315-07-8)	-	0.0421	0.337	1	Propiconazole (60207-90-1))	-	0.0421	0.337	0.4
Daminozide (1596-84-5)	_	0.0421	0.337	1	Propoxur (114-26-1)	-	0.0421	0.337	0.2
DDVP (62-73-7)	_	0.0421	0.337	0.1	Pyrethrins (8003-34-7)	-	0.0421	0.337	1
Diazinon (333-41-5)	_	0.0421	0.337	0.2	Pyridaben (96489-71-3)	-	0.0421	0.337	0.2
Dimethoate (60-51-5)	-	0.0421	0.337	0.2	Spinosad (168316-95-8)	-	0.0421	0.337	0.2
Ethoprophos (13194-48-4)	-	0.0421	0.337	0.2	Spiromesifen	_	0.0421	0.337	0.2
Etofenprox (80844-07-1)	-	0.0421	0.337	0.4	(283594-90-1)				
Etoxazole (153233-91-1)	-	0.0421	0.337	0.2	Spirotetramat (203313-25-1)	-	0.0421	0.337	0.2
Fenoxycarb (72490-01-8)	-	0.0421	0.337	0.2	Spiroxamine		0.0424	0.227	0.4
(E)-Fenpyroximate (134098-61-6)	-	0.0421	0.337	0.4	(118134-30-8) Tebuconazole	-	0.0421	0.337	0.4
Fipronil (120068-37-3)	-	0.0421	0.337	0.4	(80443-41-0)	-	0.0421	0.337	0.4
Flonicamid (158062-67-0)	-	0.0421	0.337	1	Thiacloprid	_	0.0421	0.337	0.2
Fludioxinil (131341-86-1)	-	0.0421	0.337	0.4	(111988-49-9)		3.0721	0.557	0.2
Hexythiazox (78587-05-0)	-	0.0421	0.337	1	Thiamethoxam (153719-23-4)	-	0.0421	0.337	0.2
Imazalil (35554-44-0)	-	0.0421	0.337	0.2	Trifloxystrobin				
Imidacloprid (138261-41-3)	-	0.0421	0.337	0.4	(141517-21-7)		0.0421	0.337	0.2



Color Key

# 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

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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05/25/2023









Sample Type: Primary

### **CERTIFICATE OF ANALYSIS (SAMPLE ID: SA35285)**

Testing Location: Customer ID: 2161 Order ID: OR10467

Arkansas River Valley Relief Cultivation **Lot Number:**232 S. Broadview St. 5601 Old Greenwood Rd Suite C M00065C1313692

Greenbrier, AR 72058 Fort Smith, AR 72903 **Production**License: ADH 113 License: 00065C 5033H20230

Cultivar (Strain) or Sample Description: BlackBerry Cheesecake

 Lot Number:
 Matrix: Flower

 M00065C13136928496
 Mass: 19g

 Production Run:
 Date Collected: 05/23/2023

5033H20230424BBC-2 **Date Received:** 05/23/2023 **Date Completed:** 05/25/2023

**HEAVY METAL PROFILE (SOP: SOP-ICP-200.6)** 

Analysis Date/Time: 05/23/2023 1648 (ICP/OES) Method: ICP/MS Deviations from SOP:

Analysis Date/Time: - (DMA) Instrument: Agilent 7500ce 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)	-	57.7	91.4	200
Cadmium (Cd)	-	57.7	91.4	200
Lead (Pb)	-	57.7	91.4	500
Mercury (Hg)	_	57.7	91.4	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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### **CERTIFICATE OF ANALYSIS (SAMPLE ID: SA35285)**

Testing Location:Customer ID: 2161Sample ID: SA35285Sample Type: PrimaryArkansasRiver Valley Relief CultivationLot Number:Matrix: Flower

 232 S. Broadview St.
 5601 Old Greenwood Rd Suite C
 M00065C13136928496
 Mass: 19g

 Greenbrier, AR 72058
 Fort Smith, AR 72903
 Production Run:
 Date Collected: 05/23/2023

 License: ADA 05 H273
 License: 00065C
 5033H20230424BBC-2
 Date Received: 05/23/2023

Cultivar (Strain) or Sample Description: BlackBerry Cheesecake

Date Completed: 05/25/2023

## MICROBIOLOGICAL PROFILE (SOP: SOP-Micro-001)

Analysis Date/Time: 05/24/2023 1130 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	-
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)

Action levels for microbiology 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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