







SUMMARY OF ANALYSIS (SAMPLE ID: SA34839)

Testing Location:Customer ID: 2161Order ID: OR10381Sample Type: PrimaryArkansasRiver Valley Relief CultivationLot Number:Matrix: Flower232 S. Broadview St.5601 Old Greenwood Rd Suite CM00065C13132566541Mass: 23g

 Greenbrier, AR 72058
 Fort Smith, AR 72903
 Production Run:
 Date Collected: 04/03/2023

 License: ADH 113
 License: 00065C
 7028H20230227CBS-1
 Date Received: 04/04/2023

Cultivar (Strain) or Sample Description: Crunch Berries

Date Completed: 04/07/2023

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

 13.1
 0.460 @ 24.4°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.

<u>Cannabino</u>	ids (Top 3)	<u>(%)</u>	mg/g
THO	CA	32.6	326
CBC	GA	0.830	8.30
Δ9-Τ	THC	0.555	5.55
TOTAI	CBD	-	-
TOTAI	THC	29.1	291
TOTAL CAN	NABINOIDS	34.1	341
Terpenes (Top 5)		<u>(%)</u>	<u>µg/g</u>
α-Pir	nene	0.886	8860
β-Муг	β-Myrcene		5860
β-Pir	β-Pinene		3800
β-Caryophyllene		0.251	2510
d-Limonene		0.212	2120
TOTAL TE	RPENES	2.70	27000
Contaminants	PASS/FAIL	Sample Pictur	e Upon Receipt

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





Scan the QR code to verify results.

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Cultivar (Strain) or Sample Description: Crunch Berries





Lot Number:



CERTIFICATE OF ANALYSIS (SAMPLE ID: SA34839)

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

M00065C13132566541

Production Run: 7028H20230227CBS-1

Order ID: OR10381

Sample Type: Primary

Matrix: Flower **Mass:** 23g

Water Activity (aw): 0.46 @ 24.39°C

Date Collected: 04/03/2023 **Date Received:** 04/04/2023

Date Completed: 04/07/2023

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

Method: HPLC/DAD **Analysis Date/Time:** 04/05/2023 1700 Moisture Content (%): 13.1

Analyst: PW **Instrument:** Agilent 1100



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.

<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	0.212	0.494	-	-	-
CBCA	ND	ND	0.658	1.54	-	-	-
CBD	ND	ND	1.49	3.49	-	-	-
CBDA	ND	ND	0.550	1.28	-	-	-
CBDV	ND	ND	0.240	0.559	-	-	-
CBDVA	ND	ND	0.639	1.49	-	-	-
CBG	<loq< td=""><td><loq< td=""><td>0.970</td><td>2.27</td><td>-</td><td>-</td><td>-</td></loq<></td></loq<>	<loq< td=""><td>0.970</td><td>2.27</td><td>-</td><td>-</td><td>-</td></loq<>	0.970	2.27	-	-	-
CBGA	0.830	8.30	0.695	1.62	-	8.30	8.30
CBL	ND	ND	1.12	2.62	-	-	-
CBN	ND	ND	0.515	1.20	-	-	-
CBNA	ND	ND	0.556	1.30	-	-	-
Δ9-ΤΗС	0.555	5.55	0.617	1.44	-	5.55	5.55
Δ8-ΤΗС	ND	ND	0.963	2.25	-	-	-
THCA	32.6	326	0.335	0.782	-	326	326
THCV	ND	ND	0.803	1.87	-	-	-
THCVA	0.128	1.28	0.256	0.597	-	1.28	1.28
TOTAL	34.1	341				341	341
TOTAL CBC	-	-			-	-	-
TOTAL CBD	-	-			-	-	-
TOTAL CBDV	-	-			-	-	-
TOTAL CBG	0.728	7.28			-	7.28	7.28
TOTAL CBN	-	-			-	-	-
TOTAL THC	29.1	291			-	291	291
TOTAL THCV	0.111	1.11			-	1.11	1.11
* CBCA, CBDVA, CBL, CBNA, and THCVA are in process of being added to our accreditation scope.							

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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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

Result

(%)

0.0702

0.0132

0.251

0.130

0.212

0.142

0.586

0.0140

0.0182

0.886

0.380

License: 00065C

Lot Number: M00065C13132566541 **Production Run:** 7028H20230227CBS-1

Order ID: OR10381

Sample Type: Primary Matrix: Flower **Mass:** 23g

Date Collected: 04/03/2023 **Date Received:** 04/04/2023

Date Completed: 04/07/2023

TERPENOID PROFILE

Analysis Date/Time:04/07/2023 0241

Result

 $(\mu g/g)$ 702

132

2510

1300

2120

1420

5860

140

182

8860

3800

Cultivar (Strain) or Sample Description: Crunch Berries

Analyst: KF

Terpene

α-Bisabolol Camphene

δ-3-Carene β-Caryophyllene

Caryophyllene oxide p-Cymene Eucalyptol Geraniol Guaiol

α-Humulene

Isopulegol

Linalool

β-Myrcene

cis-Nerolidol

α-Ocimene

β-Ocimene

α-Pinene

B-Pinene

TOTAL

α-Terpinene y-Terpinene Terpinolene

trans-Nerolidol

d-Limonene

Method: GC/MS

Instrument: Agilent 7890/5975

Deviations from SOP:

None



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

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"-" Not detected above RL

27000 2.70 Reporting Limit (µg/g): 42.4





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04/07/2023









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: OR10381 Lot Number:

M00065C13132566541

Production Run: 7028H20230227CBS-1 Sample Type: Primary

Matrix: Flower **Mass:** 23g

Date Collected: 04/03/2023 **Date Received:** 04/04/2023

Date Completed: 04/07/2023

PESTICIDES PROFILE (SOP: SOP-PEST-001)

Analysis Date/Time: 04/06/2023 0025

Cultivar (Strain) or Sample Description: Crunch Berries

Method: LC/MS/MS

Deviations from SOP:

Analyst: KF			Instrument: Shimadzu LC-8050			None			
<u>Pesticide</u>	<u>Result</u> (μg/g)	<u>LOD</u> (µg/g)	LOQ (µg/g)	Action Level (µg/g)	<u>Pesticide</u>	<u>Result</u> (μg/g)	<u>LOD</u> (µg/g)	LOQ (µg/g)	Action Level (µg/g)
Abamectin (71751-41-2)	-	0.0424	0.340	0.5	Kresoxim-methyl		0.0424	0.340	0.4
Acephate (30560-19-1)	-	0.0424	0.340	0.4	(143390-89-0)				
Acequinocyl (57960-19-7)	-	0.0424	0.340	2	Malathion (121-75-5)	-	0.0424	0.340	0.2
Acetamiprid (135410-20-7)	-	0.0424	0.340	0.2	Metalaxyl (57837-19-1) Methiocarb (2032-65-7)	-	0.0424 0.0424	0.340 0.340	0.2 0.2
Aldicarb (116-06-3)	-	0.0424	0.340	0.4	Methomyl (16752-77-5)	_	0.0424	0.340	0.4
Azoxystrobin (131860-33-8)	-	0.0424	0.340	0.2	Methyl parathion (298-0-0)	-	0.0424	0.340	0.2
Bifenazate (149877-41-8)	-	0.0424	0.340	0.2	MGK 264 (113-48-4)	-	0.0424	0.340	0.2
Bifenthrin (82657-04-3)	-	0.0424	0.340	0.2	Myclobutanil		0.0424	0.340	0.2
Boscalid (188425-85-6)	-	0.0424	0.340	0.4	(88671-89-0)		0.0424		
Carbaryl (63-25-2)	-	0.0424	0.340	0.2	Naled (300-76-5)	-	0.0424	0.340	0.5
Carbofuran (1563-66-2)	-	0.0424	0.340	0.2	Oxamyl (23135-22-0)	-	0.0424	0.340	1
Chlorantraniliprole (800008-45-7)	-	0.0424	0.340	0.2	Paclobutrazol (76738-62-0)	-	0.0424	0.340	0.4
Chlorfenapyr		0.0424	0.340	1	Permethrins (52645-53-1)	-	0.0424	0.340	0.2
(122453-73-0)	_	0.0424	0.340	1	Phosmet (732-11-6)	-	0.0424	0.340	0.2
Chlorpyrifos (2921-88-2)	-	0.0424	0.340	0.2	Piperonyl butoxide	_	0.0424	0.340	2
Clofentezine (74115-24-5)	-	0.0424	0.340	0.2	(51-03-6)		0.0404	0.240	0.2
Cyfluthrin (68359-37-5)	-	0.0424	0.340	1	Prallethrins (2331-36-9)	-	0.0424	0.340	0.2
Cypermethrin (52315-07-8)	-	0.0424	0.340	1	Propiconazole (60207-90-1))	-	0.0424	0.340	0.4
Daminozide (1596-84-5)	-	0.0424	0.340	1	Propoxur (114-26-1)	-	0.0424	0.340	0.2
DDVP (62-73-7)	-	0.0424	0.340	0.1	Pyrethrins (8003-34-7)	-	0.0424	0.340	1
Diazinon (333-41-5)	-	0.0424	0.340	0.2	Pyridaben (96489-71-3)	-	0.0424	0.340	0.2
Dimethoate (60-51-5)	-	0.0424	0.340	0.2	Spinosad (168316-95-8)	-	0.0424	0.340	0.2
Ethoprophos (13194-48-4)	-	0.0424	0.340	0.2	Spiromesifen (283594-90-1)	_	0.0424	0.340	0.2
Etofenprox (80844-07-1)	-	0.0424	0.340	0.4	(263594-90-1) Spirotetramat				
Etoxazole (153233-91-1)	-	0.0424	0.340	0.2	(203313-25-1)	-	0.0424	0.340	0.2
Fenoxycarb (72490-01-8)	-	0.0424	0.340	0.2	Spiroxamine	_	0.0424	0.340	0.4
(E)-Fenpyroximate (134098-61-6)	-	0.0424	0.340	0.4	(118134-30-8) Tebuconazole		0.0424	0.340	0.4
Fipronil (120068-37-3)	-	0.0424	0.340	0.4	(80443-41-0)		0.0424	0.540	U. 4
Flonicamid (158062-67-0)	-	0.0424	0.340	1	Thiacloprid	-	0.0424	0.340	0.2
Fludioxinil (131341-86-1)	_	0.0424	0.340	0.4	(111988-49-9)				



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

0.0424

0.0424

0.340

0.340

0.2

0.2

<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		

Thiamethoxam

(153719-23-4)

Trifloxystrobin

(141517-21-7)



Fludioxinil (131341-86-1)

Hexythiazox (78587-05-0)

Imazalil (35554-44-0)

Imidacloprid

(138261-41-3)

0.0424

0.0424

0.0424

0.340

0.340

0.340

0.340

0.4

1

0.2

0.4



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04/07/2023









Testing Location: Customer ID: 2161
Arkansas River Valley Relief Cultivation

5601 Old Greenwood Rd Suite C Fort Smith, AR 72903

Greenbrier, AR 72058 Fort Smith, AR 729 License: ADH 113 License: 00065C Order ID: OR10381 Sample Type: Primary
Lot Number: Matrix: Flower

 Production Run:
 Date Collected: 04/03/2023

 7028H20230227CBS-1
 Date Received: 04/04/2023

Cultivar (Strain) or Sample Description: Crunch BerriesDate Completed: 04/07/2023

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

Analysis Date/Time: 04/05/2023 2214 (ICP/OES) Method: ICP/OES Deviations from SOP:

Analysis Date/Time: - (DMA) Instrument: Agilent 720-ES None

Analyst: KF

232 S. Broadview St.

Heavy Metal	<u>Result</u> (μg/kg)	<u>LOD</u> (μg/kg)	<u>LOQ</u> (µg/kg)	<u>Action Level</u> (μg/kg)
Arsenic (As)	-	59.3	93.9	200
Cadmium (Cd)	-	59.3	93.9	200
Lead (Pb)	-	59.3	93.9	500
Mercury (Hg)	_	59.3	93.9	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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Testing Location:Customer ID: 2161Sample ID: SA34839Sample Type: PrimaryArkansasRiver Valley Relief CultivationLot Number:Matrix: Flower232 S. Broadview St.5601 Old Greenwood Rd Suite CM00065C13132566541Mass: 23g

 Greenbrier, AR 72058
 Fort Smith, AR 72903
 Production Run:
 Date Collected: 04/03/2023

 License: ADA 05_H273
 License: 00065C
 7028H20230227CBS-1
 Date Received: 04/04/2023

Cultivar (Strain) or Sample Description: Crunch Berries **Date Completed:** 04/07/2023

MICROBIOLOGICAL PROFILE (SOP: SOP-Micro-001)

Analysis Date/Time: 20230405 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)

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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