







SUMMARY OF ANALYSIS (SAMPLE ID: SA32084)

Order ID: OR9977 **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 M00065C13138539946 **Mass:** 23g

Greenbrier, AR 72058 Fort Smith, AR 72903 **Production Run: Date Collected:** 08/17/2022 6006H20220701CBS3 License: ADH 113 License: 00065C **Date Received:** 08/17/2022 Cultivar (Strain) or Sample Description: Crunch Berries **Date Completed:** 08/20/2022

*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

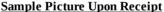
> PASS/FAIL **Moisture Content (%)** Water Activity (aw) 0.511 @ 25.1°C **PASS** 13.0

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
TH	CA	21.4	214
Δ9-7	THC	0.848	8.48
СВ	GA	0.375	3.75
TOTA	L CBD	0.0321	0.321
TOTA	LTHC	19.6	196
TOTAL CAN	NABINOIDS	23.0	230
<u>Terpene</u>	s (Top 5)	<u>(%)</u>	рд/д
α-Pi	nene	0.696	6960
β-Му	β-Myrcene		4520
β-Caryo	β-Caryophyllene		3430
β-Pi:	β-Pinene		3300
d-Lim	d-Limonene		1650
TOTAL T	ERPENES	2.43	24300
Contaminants	PASS/FAII	Sample Dictus	e Unon Receint

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







Scan the QR code to verify results.

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Mandatory Flower







Cultivar (Strain) or Sample Description: Crunch Berries







CERTIFICATE OF ANALYSIS (SAMPLE ID: SA32084)

Testing Location: Arkansas

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: OR9977 Lot Number:

M00065C13138539946

Production Run: 6006H20220701CBS3

Sample Type: Primary

Matrix: Flower **Mass:** 23g

Date Collected: 08/17/2022 **Date Received:** 08/17/2022

Date Completed: 08/20/2022

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

Analysis Date/Time: 8/20/2022 1156 Method: HPLC/DAD Moisture Content (%): 13

Analyst: PW Instrument: Agilent 1100 Water Activity (aw): 0.5115 @ 25.05°C

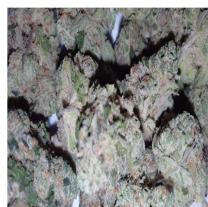
<u>Cannabinoid</u>	Result (%)	<u>UM</u> (+/-%)	Result (mg/g)	LOQ (mg/g)	Result (mg/ mL)	Per Serving (mg)	Per Unit (mg)
CBC	-	-	-	0.187	-	-	-
CBCA	-	-	-	0.187	-	-	-
CBD	-	-	-	0.187	-	-	-
CBDA	0.0367	0.00367	0.367	0.187	-	0.367	0.367
CBDV	-	-	-	0.187	-	-	-
CBDVA	0.0325	0.00292	0.325	0.187	-	0.325	0.325
CBG	0.157	0.0204	1.57	0.187	-	1.57	1.57
CBGA	0.375	0.0412	3.75	0.187	-	3.75	3.75
CBL	-	-	-	0.187	-	-	-
CBN	-	-	-	0.187	-	-	-
CBNA	-	-	-	0.187	-	-	-
Δ9-ΤΗС	0.848	0.144	8.48	0.187	-	8.48	8.48
Δ8-ΤΗС	-	-	-	0.187	-	-	-
THCA	21.4	2.14	214	0.187	-	214	214
THCV	-	-	-	0.187	-	-	-
THCVA	0.114	0.00569	1.14	0.187	-	1.14	1.14
TOTAL	23.0	2.36	230		-	230	230
TOTAL CBC	-	-	-		-	-	-
TOTAL CBD	0.0321	0.00321	0.321		-	0.321	0.321
TOTAL CBDV	0.0282	0.00253	0.282		-	0.282	0.282
TOTAL CBG	0.486	0.0566	4.86		-	4.86	4.86
TOTAL CBN	-	-	-		-	-	-
TOTAL THC	19.6	2.02	196		-	196	196
* CBCA CBDVA C	0.0987	0.00493	0.987		-	0.987	0.987



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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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) + 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.





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CERTIFICATE OF ANALYSIS (SAMPLE ID: SA32084)

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

TOTAL

α-Terpinene y-Terpinene Terpinolene

trans-Nerolidol

d-Limonene

Customer ID: 2161

River Valley Relief Cultivation 5601 Old Greenwood Rd Suite C

> Result **(%)**

0.0770

0.0165

0.343

0.0146

0.144

0.165

0.153

0.452

0.0269

0.00524

0.00235

0.696

0.330

0.00563

2.43

Fort Smith, AR 72903

License: 00065C

Order ID: OR9977 Lot Number:

M00065C13138539946

Production Run: 6006H20220701CBS3 Sample Type: Primary

Matrix: Flower **Mass:** 23g

Date Collected: 08/17/2022 **Date Received:** 08/17/2022

Date Completed: 08/20/2022

TERPENOID PROFILE

Analysis Date/Time:8/19/2022 1905 Method: GC/MS

Analyst: KF Instrument: Agilent 7890/5975

Result

 $(\mu g/g)$

770

165

3430

146

1440

1650

1530

4520

269

52.4

23.5

6960

3300

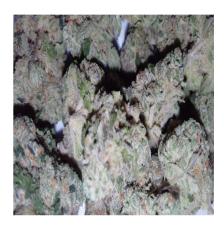
56.3

24300

Cultivar (Strain) or Sample Description: Crunch Berries

Deviations from SOP:

None



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

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"-" Not detected above RL

Reporting Limit (µg/g): 19.8





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08/20/2022









CERTIFICATE OF ANALYSIS (SAMPLE ID: SA32084)

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: OR9977 Lot Number:

M00065C13138539946

Production Run: 6006H20220701CBS3

Sample Type: Primary

Matrix: Flower Mass: 23g

Date Collected: 08/17/2022 **Date Received:** 08/17/2022

Date Completed: 08/20/2022

PESTICIDES PROFILE (SOP: SOP-PEST-001)

Analysis Date/Time: 8/19/2022 1729

Analyst: KF

Cultivar (Strain) or Sample Description: Crunch Berries

Method: LC/MS/MS

Instrument: Shimadzu LC-8050

Deviations from SOP:

None

Result (μg/g)	LOD (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)
-	0.0198	0.158	0.5	Kresoxim-methyl	_	0.0198	0.158	0.4
-	0.0198	0.158	0.4	` '				
-	0.0198	0.158	2	* *	-			0.2
-	0.0198	0.158	0.2	Metalaxyl (57837-19-1) Methiocarb (2032-65-7)	-	0.0198 0.0198	0.158 0.158	0.2 0.2
-	0.0198	0.158	0.4	Methomyl (16752-77-5)	-	0.0198	0.158	0.4
-	0.0198	0.158	0.2	Methyl parathion (298-0-0)	-	0.0198	0.158	0.2
-	0.0198	0.158	0.2	MGK 264 (113-48-4)	-	0.0198	0.158	0.2
-	0.0198	0.158	0.2	Myclobutanil		0.0198	0.158	0.2
-	0.0198	0.158	0.4	·				
-	0.0198	0.158	0.2	Naled (300-76-5)	-	0.0198	0.158	0.5
-	0.0198	0.158	0.2	Oxamyl (23135-22-0)	-	0.0198	0.158	1
-	0.0198	0.158	0.2	Paclobutrazol (76738-62-0)	-	0.0198	0.158	0.4
-	0.0198	0.158	1	Permethrins (52645-53-1) Phosmet (732-11-6)	-	0.0198 0.0198	0.158 0.158	0.2 0.2
-	0.0198	0.158	0.2	Piperonyl butoxide		0.0100	0.150	2
-	0.0198	0.158	0.2	(51-03-6)	_	0.0196	0.156	2
-	0.0198	0.158	1	Prallethrins (2331-36-9)	-	0.0198	0.158	0.2
-	0.0198	0.158	1	Propiconazole (60207-90-1))	-	0.0198	0.158	0.4
_	0.0198	0.158	1	Propoxur (114-26-1)	-	0.0198	0.158	0.2
_	0.0198	0.158	0.1	Pyrethrins (8003-34-7)	-	0.0198	0.158	1
_	0.0198	0.158	0.2	Pyridaben (96489-71-3)	-	0.0198	0.158	0.2
-	0.0198	0.158	0.2	Spinosad (168316-95-8)	-	0.0198	0.158	0.2
-	0.0198	0.158	0.2	Spiromesifen	_	0.0198	0.158	0.2
-	0.0198	0.158	0.4	` '				
-	0.0198	0.158	0.2		-	0.0198	0.158	0.2
-	0.0198	0.158	0.2	Spiroxamine		0.0100	0.150	0.4
-	0.0198	0.158	0.4	(118134-30-8) Tebuconazole	-			0.4
-	0.0198	0.158	0.4	(80443-41-0)	-	0.0198	0.158	0.4
-	0.0198	0.158	1	Thiacloprid	_	0.0198	0.158	0.2
-	0.0198	0.158	0.4			0.0150	0.150	0.2
-	0.0198	0.158	1		-	0.0198	0.158	0.2
-	0.0198	0.158	0.2	` '				
-	0.0198	0.158	0.4	(141517-21-7)	-	0.0198	0.158	0.2
	(µg/g)	Tug/g)	(µg/g) (µg/g) (µg/g) 0.0198 0.158 0.0198	Color Colo	Composition Composition	Result Gug/g)	Company Comp	



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

<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		













CERTIFICATE OF ANALYSIS (SAMPLE ID: SA32084)

Testing Location:Customer ID: 2161Order ID: OR9977Sample Type: PrimaryArkansasRiver Valley Relief CultivationLot Number:Matrix: Flower232 S. Broadview St.5601 Old Greenwood Rd Suite CM00065C13138539946Mass: 23g

 Greenbrier, AR 72058
 Fort Smith, AR 72903
 Production Run:
 Date Collected: 08/17/2022

 License: ADH 113
 License: 00065C
 6006H20220701CBS3
 Date Received: 08/17/2022

Cultivar (Strain) or Sample Description: Crunch Berries

Date Completed: 08/20/2022

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

Analysis Date/Time: 08/19/2022 0950 (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)	-	56.9	90.0	200
Cadmium (Cd)	-	56.9	90.0	200
Lead (Pb)	-	56.9	90.0	500
Mercury (Hg)	_	56.9	90.0	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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License: ADA 05 H273





6006H20220701CBS3



Date Received: 08/17/2022

CERTIFICATE OF ANALYSIS (SAMPLE ID: SA32084)

Testing Location:Customer ID: 2161Sample ID: SA32084Sample Type: PrimaryArkansasRiver Valley Relief CultivationLot Number:Matrix: Flower

232 S. Broadview St. 5601 Old Greenwood Rd Suite C M00065C13138539946 **Mass:** 23g
Greenbrier, AR 72058 Fort Smith, AR 72903 **Production Run: Date Collected:** 08/17/2022

Cultivar (Strain) or Sample Description: Crunch Berries

Date Completed: 08/20/2022

MICROBIOLOGICAL PROFILE (SOP: SOP-Micro-001)

Analysis Date/Time: 8/19/2022 1314 **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	-

License: 00065C



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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