







SUMMARY OF ANALYSIS (SAMPLE ID: SA32085)

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 M00065C13131379289 Mass: 12.51g

Greenbrier, AR 72058 Fort Smith, AR 72903 **Production Run: Date Collected:** 08/17/2022 6006H20220701CBS4 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

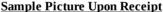
> PASS/FAIL Water Activity (aw) **Moisture Content (%)** 12.9 0.501 @ 25.0°C **PASS**

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.

Cannabinoids (Top 3)	(%)	mg/g
THCA	20.9	209
Δ9-ΤΗС	0.804	8.04
CBGA	0.383	3.83
TOTAL CBD	0.0329	0.329
TOTAL THC	19.1	191
TOTAL CANNABINOIDS	22.5	225
Terpenes (Top 5)	<u>(%)</u>	µg∕g
<u>Terpenes (Top 5)</u> α-Pinene	<u>(%)</u> 0.684	µg/g 6840
α-Pinene	0.684	6840
α-Pinene β-Myrcene	0.684 0.407	6840 4070
α-Pinene β-Myrcene β-Caryophyllene	0.684 0.407 0.385	6840 4070 3850
α-Pinene β-Myrcene β-Caryophyllene β-Pinene	0.684 0.407 0.385 0.334	6840 4070 3850 3340

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







Scan the QR code to verify results.

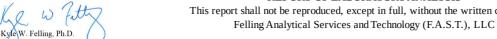
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Mandatory Flower









Cultivar (Strain) or Sample Description: Crunch Berries







CERTIFICATE OF ANALYSIS (SAMPLE ID: SA32085)

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:

M00065C13131379289 **Production Run:** 6006H20220701CBS4 **Sample Type:** Primary **Matrix:** Flower **Mass:** 12.51g

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 1207 Method: HPLC/DAD Moisture Content (%): 12.9

Analyst: PW Instrument: Agilent 1100 Water Activity (aw): 0.5007 @ 25.03°C

<u>Cannabinoid</u>	Result (%)	<u>UM</u> (+/-%)	Result (mg/g)	LOQ (mg/g)	Result (mg/ mL)	Per Serving (mg)	Per Unit (mg)
CBC	-	-	-	0.253	-	-	-
CBCA	-	-	-	0.253	-	-	-
CBD	-	-	-	0.253	-	-	-
CBDA	0.0376	0.00376	0.376	0.253	-	0.376	0.376
CBDV	-	-	-	0.253	-	-	-
CBDVA	0.0390	0.00351	0.390	0.253	-	0.390	0.390
CBG	0.186	0.0242	1.86	0.253	-	1.86	1.86
CBGA	0.383	0.0421	3.83	0.253	-	3.83	3.83
CBL	-	-	-	0.253	-	-	-
CBN	-	-	-	0.253	-	-	-
CBNA	-	-	-	0.253	-	-	-
Δ9-ΤΗС	0.804	0.137	8.04	0.253	-	8.04	8.04
Δ8-ΤΗС	-	-	-	0.253	-	-	-
THCA	20.9	2.09	209	0.253	-	209	209
THCV	-	-	-	0.253	-	-	-
THCVA	0.115	0.00577	1.15	0.253		1.15	1.15
TOTAL	22.5	2.31	225		-	225	225
TOTAL CBC	-	-			-	-	-
TOTAL CBD	0.0329	0.00329	0.329		-	0.329	0.329
TOTAL CBDV	0.0338	0.00304	0.338		-	0.338	0.338
TOTAL CBG	0.522	0.0611	5.22		-	5.22	5.22
TOTAL CBN	-	-	-		-	-	-
TOTAL THC	19.1	1.97	191		-	191	191
* CBCA CBDVA C	0.100	0.00500	1.00		-	1.00	1.00

^{*} 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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SERVING MASS (g): 1.00 SERVINGS/UNIT: 1

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.





[&]quot;-" Not detected above LOD.









CERTIFICATE OF ANALYSIS (SAMPLE ID: SA32085)

Testing Location: Arkansas

232 S. Broadview St. Greenbrier, AR 72058 License: ADH 113

Analyst: KF

Terpene

α-Bisabolol Camphene

δ-3-Carene β-Caryophyllene

oxide p-Cymene Eucalyptol Geraniol

Guaiol

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

Caryophyllene

Customer ID: 2161 River Valley Relief Cultivation

5601 Old Greenwood Rd Suite C Fort Smith, AR 72903

Result

(%)

0.0808

0.0166

0.385

0.0155

0.0161

0.162

0.162

0.174

0.407

0.0290

0.00455

0.00229

0.684

0.334

0.00579

License: 00065C

Order ID: OR9977 Lot Number:

M00065C13131379289

Production Run: 6006H20220701CBS4 Sample Type: Primary

Matrix: Flower Mass: 12.51g

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

Date Completed: 08/20/2022

TERPENOID PROFILE

Analysis Date/Time:8/19/2022 1929

Cultivar (Strain) or Sample Description: Crunch Berries

Result

 $(\mu g/g)$ 808

166

3850

155

161

1620

1620

1740

4070

290

45.5

22.9

6840

3340

57.9

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

TOTAL 24800 2.48 Reporting Limit (µg/g): 18.1













CERTIFICATE OF ANALYSIS (SAMPLE ID: SA32085)

Testing Location:

Arkansas 232 S. Broadview St.

Greenbrier, AR 72058 License: ADH 113 River Valley Relief Cultivation 5601 Old Greenwood Rd Suite C Fort Smith, AR 72903

Customer ID: 2161

License: 00065C

Order ID: OR9977 Lot Number:

M00065C13131379289

Production Run: 6006H20220701CBS4

Sample Type: Primary

Matrix: Flower Mass: 12.51g

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 1744

Analyst: KF

ne: 8/19/2022 1/44

Cultivar (Strain) or Sample Description: Crunch Berries

Method: LC/MS/MS

Instrument: Shimadzu LC-8050

Deviations from SOP:

None

<u>Pesticide</u>	Result (μg/g)	<u>LOD</u> (µg/g)	<u>LOQ</u> (µg/g)	<u>Action</u> <u>Level</u> (μg/g)	<u>Pesticide</u>	Result (μg/g)	<u>LOD</u> (µg/g)	<u>LOQ</u> (µg/g)	<u>Action</u> <u>Level</u> (μg/g)
Abamectin (71751-41-2)	-	0.0181	0.144	0.5	Kresoxim-methyl	_	0.0181	0.144	0.4
Acephate (30560-19-1)	-	0.0181	0.144	0.4	(143390-89-0)				
Acequinocyl (57960-19-7)	-	0.0181	0.144	2	Malathion (121-75-5)	-	0.0181	0.144	0.2
Acetamiprid (135410-20-7)	-	0.0181	0.144	0.2	Metalaxyl (57837-19-1) Methiocarb (2032-65-7)	-	0.0181 0.0181	0.144 0.144	0.2 0.2
Aldicarb (116-06-3)	-	0.0181	0.144	0.4	Methomyl (16752-77-5)	-	0.0181	0.144	0.4
Azoxystrobin (131860-33-8)	-	0.0181	0.144	0.2	Methyl parathion (298-0-0)	-	0.0181	0.144	0.2
Bifenazate (149877-41-8)	-	0.0181	0.144	0.2	MGK 264 (113-48-4)	-	0.0181	0.144	0.2
Bifenthrin (82657-04-3)	-	0.0181	0.144	0.2	Myclobutanil		0.0181	0.144	0.2
Boscalid (188425-85-6)	-	0.0181	0.144	0.4	(88671-89-0)		0.0101	0.144	0.2
Carbaryl (63-25-2)	-	0.0181	0.144	0.2	Naled (300-76-5)	-	0.0181	0.144	0.5
Carbofuran (1563-66-2)	-	0.0181	0.144	0.2	Oxamyl (23135-22-0)	-	0.0181	0.144	1
Chlorantraniliprole (800008-45-7)	-	0.0181	0.144	0.2	Paclobutrazol (76738-62-0)	-	0.0181	0.144	0.4
Chlorfenapyr		0.0101	0.144	1	Permethrins (52645-53-1)	-	0.0181	0.144	0.2
(122453-73-0)	-	0.0181	0.144	1	Phosmet (732-11-6)	-	0.0181	0.144	0.2
Chlorpyrifos (2921-88-2)	-	0.0181	0.144	0.2	Piperonyl butoxide	2.0	0.0181	0.144	2
Clofentezine (74115-24-5)	-	0.0181	0.144	0.2	(51-03-6)				
Cyfluthrin (68359-37-5)	-	0.0181	0.144	1	Prallethrins (2331-36-9)	-	0.0181	0.144	0.2
Cypermethrin (52315-07-8)	-	0.0181	0.144	1	Propiconazole (60207-90-1))	-	0.0181	0.144	0.4
Daminozide (1596-84-5)	-	0.0181	0.144	1	Propoxur (114-26-1)	-	0.0181	0.144	0.2
DDVP (62-73-7)	-	0.0181	0.144	0.1	Pyrethrins (8003-34-7)	-	0.0181	0.144	1
Diazinon (333-41-5)	-	0.0181	0.144	0.2	Pyridaben (96489-71-3)	-	0.0181	0.144	0.2
Dimethoate (60-51-5)	-	0.0181	0.144	0.2	Spinosad (168316-95-8)	-	0.0181	0.144	0.2
Ethoprophos (13194-48-4)	-	0.0181	0.144	0.2	Spiromesifen	2	0.0181	0.144	0.2
Etofenprox (80844-07-1)	-	0.0181	0.144	0.4	(283594-90-1)				
Etoxazole (153233-91-1)	-	0.0181	0.144	0.2	Spirotetramat (203313-25-1)	-	0.0181	0.144	0.2
Fenoxycarb (72490-01-8)	-	0.0181	0.144	0.2	Spiroxamine				
(E)-Fenpyroximate (134098-61-6)	-	0.0181	0.144	0.4	(118134-30-8) Tebuconazole	-	0.0181	0.144	0.4
Fipronil (120068-37-3)	_	0.0181	0.144	0.4	(80443-41-0)	-	0.0181	0.144	0.4
Flonicamid (158062-67-0)	_	0.0181	0.144	1	Thiacloprid		0.0181	0.144	0.2
Fludioxinil (131341-86-1)	_	0.0181	0.144	0.4	(111988-49-9)		0.0101	0.144	0.2
Hexythiazox (78587-05-0)	_	0.0181	0.144	1	Thiamethoxam	-	0.0181	0.144	0.2
Imazalil (35554-44-0)	-	0.0181	0.144	0.2	(153719-23-4)				
Imidacloprid (138261-41-3)	-	0.0181	0.144	0.4	Trifloxystrobin (141517-21-7)	-	0.0181	0.144	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 I isomers.

 $\begin{array}{c} \text{Action levels are referenced from} \\ \text{the} \end{array}$

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		





REPORT OF LABORATORY ANALYSIS







6006H20220701CBS4



Date Received: 08/17/2022

CERTIFICATE OF ANALYSIS (SAMPLE ID: SA32085)

Testing Location:Customer ID: 2161Order ID: OR9977Sample Type: PrimaryArkansasRiver Valley Relief CultivationLot Number:Matrix: Flower

232 S. Broadview St. 5601 Old Greenwood Rd Suite C M00065C13131379289 **Mass:** 12.51g

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

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

Analysis Date/Time: 08/19/2022 0953 (ICP/OES) Method: ICP/OES Deviations from SOP:

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

Analyst: KF

License: ADH 113

<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)	-	56.8	90.0	200
Cadmium (Cd)	-	56.8	90.0	200
Lead (Pb)	-	56.8	90.0	500
Mercury (Hg)	_	56.8	90.0	100

License: 00065C



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: SA32085)

Testing Location:Customer ID: 2161Sample ID: SA32085Sample Type: PrimaryArkansasRiver Valley Relief CultivationLot Number:Matrix: Flower

 232 S. Broadview St.
 5601 Old Greenwood Rd Suite C
 M00065C13131379289
 Mass: 12.51g

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

 License: ADA 05 H273
 License: 00065C
 6006H20220701CBS4
 Date Received: 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	<u>Result</u> (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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