







SUMMARY OF ANALYSIS (SAMPLE ID: SA36474)

Testing Location:	Customer ID: 2161	Order ID: OR10717	Sample Type: Primary			
Arkansas	River Valley Relief Cultivation	Lot Number:	Matrix: Flower			
232 S. Broadview St.	5601 Old Greenwood Rd Suite C	M00065C13132504126	Mass: 23g			
Greenbrier, AR 72058	Fort Smith, AR 72903	Production Run:	Date Collected: 11/20/2023			
License: ADH 113	License: 00065C	4046H20231012CBS-1	Date Received: 11/21/2023			
Cultivar (Strain) or Sample Description: Crunch BerriesDate Completed: 11/23/2023						

*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
12.9	0.535 @ 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.

Cannabinoids (Top 3)	<u>(%)</u>	<u>mg</u> /g
THCA	32.7	327
Δ9-ТНС	0.706	7.06
CBGA	0.499	4.99
TOTAL CBD	-	-
TOTAL THC	29.4	294
TOTAL CANNABINOIDS	34.2	342
<u>Terpenes (Top 5)</u>	<u>(%)</u>	<u>µg/g</u>
<u>Terpenes (Top 5)</u> α-Pinene	<u>(%)</u> 0.762	µg/g 7620
α-Pinene	0.762	7620
α-Pinene β-Pinene	0.762 0.443	7620 4430
α-Pinene β-Pinene β-Myrcene	0.762 0.443 0.366	7620 4430 3660

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





Scan the QR code to verify results.

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

Analysis Date/Time: 11/21/2023 1353 Analyst: PW Method: HPLC/DAD Instrument: Agilent 1100

<u>Cannabinoid</u>	<u>Result</u> (<u>%)</u>	<u>Result</u> (mg/g)	<u>LOD</u> (mg/g)	<u>LOQ</u> (mg/g)	<u>Result</u> (mg/ <u>mL)</u>	<u>Per</u> <u>Serving</u> (mg)	<u>Per</u> 5 <u>Unit</u> (<u>mg)</u>
CBC	ND	ND	0.0420	0.0981	-	-	-
CBCA	ND	ND	0.131	0.305	-	-	-
CBD	ND	ND	0.297	0.692	-	-	-
CBDA	ND	ND	0.109	0.255	-	-	-
CBDV	ND	ND	0.0476	0.111	-	-	-
CBDVA	ND	ND	0.127	0.296	-	-	-
CBG	0.0924	0.924	0.193	0.450	-	0.805	0.805
CBGA	0.499	4.99	0.273	0.322	-	4.34	4.34
CBL	ND	ND	0.222	0.519	-	-	-
CBN	ND	ND	0.102	0.239	-	-	-
CBNA	ND	ND	0.110	0.257	-	-	-
Δ9-ΤΗC	0.706	7.06	0.122	0.285	-	6.15	6.15
$\Delta 8$ -THC	ND	ND	0.191	0.446	-	-	-
THCA	32.7	327	0.0664	0.155	-	285	285
THCV	ND	ND	0.159	0.371	-	-	-
THCVA	0.172	1.72	0.0509	0.118	-	1.50	1.50
TOTAL	34.2	342				298	298
TOTAL CBC	-	-				-	-
TOTAL CBD	-	-			-	-	-
TOTAL CBDV	-	-			-	-	-
TOTAL CBG	0.530	5.30			-	4.62	4.62
TOTAL CBN	-	-			-	-	-
TOTAL THC	29.4	294			-	256	256
TOTAL THCV	0.149	1.49			-	1.30	1.30

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 (%): 12.9 **Water Activity (aw):** 0.535 @ 24.4°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 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.

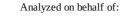
mg/g results are reported as mass component per mass material.













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Cultivar (Strain) or Sample De	Date Completed: 11/23/2023		

Analysis Date/Time:11/21/2023 1935 Analyst: KF

TE	RF	PEN	10	DID	P]	RO	FII	LE
_	_							

Method: GC/MS Instrument: Agilent 7890/5975

Deviations from SOP: None

<u>Terpene</u>	<u>Result</u> (µg/g)	<u>Result</u> (%)	
α-Bisabolol	277	0.0277	
Camphene	184	0.0184	
δ-3-Carene	ND	-	
β-Caryophyllene	2310	0.231	
Caryophyllene oxide	ND	-	
p-Cymene	ND	-	
Eucalyptol	ND	-	
Geraniol	ND	-	
Guaiol	ND	-	
α-Humulene	922	0.0922	
Isopulegol	ND	-	
d-Limonene	2270	0.227	
Linalool	799	0.0799	
β-Myrcene	3660	0.366	
cis-Nerolidol	ND	-	
trans-Nerolidol	ND	-	
α-Ocimene	ND	-	
β-Ocimene	277	0.0277	
α-Pinene	7620	0.762	
β-Pinene	4430	0.443	
α-Terpinene	ND	-	
γ-Terpinene	ND	-	
Terpinolene	ND	-	
TOTAL	22700	2.27	



Abbreviations: GC - Gas Chromatography, MS - Mass Spectrometry, RL - Reporting Limit Abbreviations: ND - Not Detected, , LOD - Limit of Detection, LOQ - Limit of Quantitation

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Reporting Limit (µg/g): 76.8

"-" Not detected above LOD.













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Cultivar (Strain) or Sample D	Date Completed: 11/23/2023		

Analysis Date/Time: 11/21/2023 1554 Analyst: KF

PESTICIDES PROFILE (SOP: SOP-PEST-001)

Method: LC/MS/MS Instrument: Shimadzu LC-8050

Alidiyst. Kr					instrument. Simila	uzu LC-c	0000		none	
<u>Pesticide</u>	<u>Result</u> (µg/g)	<u>LOD</u> (µg/g)	<u>LOQ</u> (µg/g)	<u>Action</u> Level (µg/g)	<u>Pesticide</u>	<u>Result</u> (µg/g)	<u>LOD</u> (µg/g)	<u>LOQ</u> (µg/g)	<u>Action</u> Level (µg/g)	
Abamectin (71751-41-2)	-	0.0460	0.368	0.5	Kresoxim-methyl	-	0.0460	0.368	0.4	
Acephate (30560-19-1)	-	0.0460	0.368	0.4	(143390-89-0)		0.0400		0.0	- Congo
Acequinocyl (57960-19-7)	-	0.0460	0.368	2	Malathion (121-75-5)	-	0.0460	0.368	0.2	
Acetamiprid (135410-20-7)	-	0.0460	0.368	0.2	Metalaxyl (57837-19-1) Methiocarb (2032-65-7)	-	0.0460 0.0460	0.368 0.368	0.2 0.2	Color Key
(135410-20-7) Aldicarb (116-06-3)	-	0.0460	0.368	0.4	Methomyl (16752-77-5)	-	0.0460	0.368	0.2	RESULT < AL
Azoxystrobin (131860-33-8)	-	0.0460	0.368	0.2	Methyl parathion (298-0-0)	-	0.0460	0.368	0.2	RESULT > AL
Bifenazate (149877-41-8)	-	0.0460	0.368	0.2	MGK 264 (113-48-4)	-	0.0460	0.368	0.2	"DET" detected less th
Bifenthrin (82657-04-3)	-	0.0460	0.368	0.2	Myclobutanil		0.0460	0.368	0.2	"-" not detected ab
Boscalid (188425-85-6)	-	0.0460	0.368	0.4	(88671-89-0)	-	0.0460	0.300	0.2	- not detected at
Carbaryl (63-25-2)	-	0.0460	0.368	0.2	Naled (300-76-5)	-	0.0460	0.368	0.5	_
Carbofuran (1563-66-2)	-	0.0460	0.368	0.2	Oxamyl (23135-22-0)	-	0.0460	0.368	1	Permethrins measured cumulative residue of th
Chlorantraniliprole (800008-45-7)	-	0.0460	0.368	0.2	Paclobutrazol (76738-62-0)	-	0.0460	0.368	0.4	trans- permethrin iso
Chlorfenapyr		0.0460	0.200	1	Permethrins (52645-53-1)	-	0.0460	0.368	0.2	Pyrethrins measured cumulative residue
(122453-73-0)	-	0.0460	0.368	1	Phosmet (732-11-6)	-	0.0460	0.368	0.2	pyrethrin I, cinerin I, and
Chlorpyrifos (2921-88-2)	-	0.0460	0.368	0.2	Piperonyl butoxide	-	0.0460	0.368	2	I isomers.
Clofentezine (74115-24-5)	-	0.0460	0.368	0.2	(51-03-6)		0.0460	0.000		Action levels are referer
Cyfluthrin (68359-37-5)	-	0.0460	0.368	1	Prallethrins (2331-36-9)	-	0.0460	0.368	0.2	the
Cypermethrin (52315-07-8)	-	0.0460	0.368	1	Propiconazole (60207-90-1))	-	0.0460	0.368	0.4	State of Arkansas MM. guidelines.
Daminozide (1596-84-5)	-	0.0460	0.368	1	Propoxur (114-26-1)	-	0.0460	0.368	0.2	A value of "-" for the act
DDVP (62-73-7)	-	0.0460	0.368	0.1	Pyrethrins (8003-34-7)	-	0.0460	0.368	1	means that analyte i
Diazinon (333-41-5)	-	0.0460	0.368	0.2	Pyridaben (96489-71-3)	-	0.0460	0.368	0.2	currently regulated l regulations referenced
Dimethoate (60-51-5)	-	0.0460	0.368	0.2	Spinosad (168316-95-8)	-	0.0460	0.368	0.2	regulations referenced
Ethoprophos (13194-48-4)	-	0.0460	0.368	0.2	Spiromesifen (283594-90-1)	-	0.0460	0.368	0.2	Disclaimer: This infor
Etofenprox (80844-07-1)	-	0.0460	0.368	0.4	Spirotetramat					provided as a service an no claims of efficacy and
Etoxazole (153233-91-1)	-	0.0460	0.368	0.2	(203313-25-1)	-	0.0460	0.368	0.2	of this product. Resu
Fenoxycarb (72490-01-8)	-	0.0460	0.368	0.2	Spiroxamine		0.0460	0.368	0.4	applicable only for the
(E)-Fenpyroximate (134098-61-6)	-	0.0460	0.368	0.4	(118134-30-8) Tebuconazole	-	0.0460	0.368	0.4	analyzed and for the s analysis conducted. Thi for informational purpo
Fipronil (120068-37-3)	-	0.0460	0.368	0.4	(80443-41-0)	-	0.0460	0.368	0.4	and should not be u
Flonicamid (158062-67-0)	-	0.0460	0.368	1	Thiacloprid	-	0.0460	0.368	0.2	diagnose, treat, or prev medical-related sympto
Fludioxinil (131341-86-1)	-	0.0460	0.368	0.4	(111988-49-9)					statements and results h
Hexythiazox (78587-05-0)	-	0.0460	0.368	1	Thiamethoxam (153719-23-4)	-	0.0460	0.368	0.2	not been approved a
Imazalil (35554-44-0)	-	0.0460	0.368	0.2	Trifloxystrobin					endorsed by the F
Imidacloprid (138261-41-3)	-	0.0460	0.368	0.4	(141517-21-7)	-	0.0460	0.368	0.2	

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



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Deviations from SOP: None



Δ1

etected less than LOQ

ot detected above LOD

rins measured as the residue of the cis- and permethrin isomers.

rins measured as the ative residue of the cinerin I, and jasmolin I isomers.

els are referenced from the

rkansas MMJ testing guidelines.

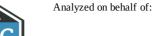
"-" for the action level that analyte is not tly regulated by the ons referenced above.

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

Analysis Date/Time: 11/21/2023 1734 (ICP/OES) Analysis Date/Time: - (DMA) Analyst: KF		Method: ICP/MS Instrument: Agilent 7500ce		Deviations from SOP: None	
<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)	-	58.4	92.4	200	COLOND THE
Cadmium (Cd)	-	58.4	92.4	200	A Start St
Lead (Pb)	-	58.4	92.4	500	THE AT SAME
Mercury (Hg)	-	58.4	92.4	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

<u>Color Key</u>



"DET" detected less than LOQ

"-" not detected above LOD

Action levels for heavy metals are referenced from the State of Arkansas MMJ testing guidelines.

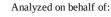
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License: ADA 05_H273	License: 00065C	4046H20231012CBS-1	Date Received: 11/21/2023
Cultivar (Strain) or Sample I	Date Completed: 11/23/2023		

MICROBIOLOGICAL PROFILE (SOP: SOP-Micro-001)

Analysis Date/Time: 11/22/20 Analyst: PW		: Hardy Diagnostics Compact nent: Thermo Incubator	Dry Deviations from SOP: None
Bacteria/Microbe	<u>Result</u> (CFU/g)	<u>Action Level</u> (CFU/g)	A CARAGE
Aerobic Plate Count	NT	-	A Start Start Start
Coliforms, Total	Absent	1	C Start A
Escherichia Coli (E. Coli)	Absent	100	STA A CANAN
Mold/Yeast	NT	-	
Pseudomonas aeruginosa	NT	-	
Salmonella spp.	NT	-	all a son of
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





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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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