







SUMMARY OF ANALYSIS (SAMPLE ID: SA34290)

Testing Location:	Customer ID: 2161	Order ID: OR10291	Sample Type: Primary
Arkansas	River Valley Relief Cultivation	Lot Number:	Matrix: Flower
232 S. Broadview St.	5601 Old Greenwood Rd Suite C	M00065C13130880802	Mass: 19g
Greenbrier, AR 72058	Fort Smith, AR 72903	Production Run:	Date Collected: 02/06/2023
License: ADH 113	License: 00065C	7021H20221216LCB-1	Date Received: 02/06/2023
Cultivar (Strain) or Sample Des	Date Completed: 02/09/2023		

*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
11.9	0.477 @ 24.6°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>Cannabinoids (Top 3)</u>	<u>(%)</u>	mg/g
THCA	27.8	278
CBGA	1.77	17.7
Δ9-ΤΗC	0.324	3.24
TOTAL CBD	-	-
TOTAL THC	24.7	247
TOTAL CANNABINOIDS	30.5	305
<u>Terpenes (Top 5)</u>	<u>(%)</u>	<u>µg/g</u>
<u>Terpenes (Top 5)</u> Caryophyllene oxide	<u>(%)</u> 0.878	<mark>µg/g</mark> 8780
Caryophyllene oxide	0.878	8780
Caryophyllene oxide d-Limonene	0.878 0.649	8780 6490
Caryophyllene oxide d-Limonene β-Caryophyllene	0.878 0.649 0.240	8780 6490 2400

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





Scan the QR code to verify results.

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REPORT OF LABORATORY ANALYSIS

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

Analysis Date/Time: 2/8/2023 1458 Analyst: PW Method: HPLC/DAD Instrument: Agilent 1100

Cannabinoid <u>Res</u>ult Per Per Result UM LOQ Result Serving Unit (mg/ (+/-%) (%) (mg/g)(mg/g)<u>mL)</u> <u>(mg)</u> (mg) CBC 0.532 CBCA 1.65 CBD 3.76 CBDA 1.38 CBDV 0.603 **CBDVA** 1.61 0.0288 CBG 0.319 3.19 2.44 3.19 3.19 17.7 CBGA 1.77 0.160 17.717.7 1.75 CBL 2.82 CBN 1.30 **CBNA** 1.40 $\Delta 9$ -THC 0.324 0.0291 3.24 1.55 3.24 3.24 $\Delta 8$ -THC 2.42 _ _ _ _ _ 27.8 278 THCA 2.50 278 0.843 278 THCV 2.02 _ -_ _ _ THCVA 0.256 0.00767 2.56 0.643 2.56 2.56 TOTAL 30.5 2.73305 305 305 _ **TOTAL CBC** _ _ _ --**TOTAL CBD** -_ _ TOTAL CBDV **TOTAL CBG** 1.88 0.169 18.8 18.8 18.8 TOTAL CBN _ 2.23 247 247 TOTAL THC 24.7 247 0.00665 TOTAL THCV 0.222 2.22 2.22 2.22

* 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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Water Activity (aw): 0.477 @ 24.58°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.

Kyle W. Felling, Ph.D. boratory Directo



PP-CANN-001) Moisture Content (%): 11.9









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TERPENOID PROFILE

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Greenbrier, AR 72058	Fort Smith, AR 72903	Production Run:			
License: ADH 113	License: 00065C	7021H20221216LCB-1			
Cultivar (Strain) or Sample Description: Log Cabin					

Sample Type: Primary Matrix: Flower Mass: 19g Date Collected: 02/06/2023 Date Received: 02/06/2023

Analysis Date/Time:0 Analyst: KF	2/08/2023 1510		Jethod: GC/MS nstrument: Agilent 7890/5975	Deviations from SOP: None
<u>Terpene</u>	<u>Result</u> (µg/g)	<u>Result</u> (%)		
α-Bisabolol	113	0.0113		
Camphene	-	-		
δ-3-Carene	-	-		
β-Caryophyllene	2400	0.240		
Caryophyllene oxide	8780	0.878		
p-Cymene	-	-		
Eucalyptol	-	-		
Geraniol	-	-		
Guaiol	-	-		Abbreviations: GC - Gas
α-Humulene	718	0.0718		Chromatography, MS - Mass
Isopulegol	-	-		Spectrometry, RL - Reporting Limit
d-Limonene	6490	0.649		This information is provided as a service and makes no claims of efficacy and/or
Linalool	2130	0.213		safety of this product.
β-Myrcene	364	0.0364		Results are applicable only for the sample(s) analyzed and for the specific
cis-Nerolidol	-	-		analysis conducted.
trans-Nerolidol	-	-		This report is for informational purposes only and should not be used to diagnose,
α-Ocimene	-	-		treat, or prevent any
β-Ocimene	186	0.0186		medical-related symptoms.
α-Pinene	1270	0.127	1	The statements and results herein have not been approved and/or endorsed by
β-Pinene	1440	0.144		the FDA.
α-Terpinene	-	-		
γ-Terpinene	-	-		
Terpinolene	-	-		"-" Not detected above RL.
TOTAL	23900	2.39		Reporting Limit (µg/g): 45.2













Deviations from SOP:

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Cultivar (Strain) or Sample	Date Completed: 02/09/2023		

Analysis Date/Time: 02/08/2023 1420

PESTICIDES PROFILE (SOP: SOP-PEST-001)

Method: LC/MS/MS

marysis Duce mine.	02/00/2	.025 1420	,							
Analyst: KF					Instrument: Shima	dzu LC-8	3050		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)	Pesticide	<u>Result</u> (µg/g)	<u>LOD</u> (µg/g)	<u>LOQ</u> (µg/g)	<u>Action</u> Level (µg/g)	A
Abamectin (71751-41-2)	-	0.0452	0.362	0.5	Kresoxim-methyl	_	0.0452	0.362	0.4	and in the
Acephate (30560-19-1)	-	0.0452	0.362	0.4	(143390-89-0)		0.0450	0.262	0.0	
Acequinocyl (57960-19-7)	-	0.0452	0.362	2	Malathion (121-75-5)	-	0.0452	0.362	0.2	
Acetamiprid (135410-20-7)	-	0.0452	0.362	0.2	Metalaxyl (57837-19-1) Methiocarb (2032-65-7)	-	0.0452 0.0452	0.362 0.362	0.2 0.2	<u>Color Key</u>
Aldicarb (116-06-3)	-	0.0452	0.362	0.4	Methomyl (16752-77-5)	-	0.0452	0.362	0.4	RESULT < AL
Azoxystrobin (131860-33-8)	-	0.0452	0.362	0.2	Methyl parathion (298-0-0)	-	0.0452	0.362	0.2	RESULT > AL
Bifenazate (149877-41-8)	-	0.0452	0.362	0.2	MGK 264 (113-48-4)	-	0.0452	0.362	0.2	"DET" detected less than LOQ
Bifenthrin (82657-04-3)	-	0.0452	0.362	0.2	Myclobutanil		0.0452	0.362	0.2	"-" not detected above
Boscalid (188425-85-6)	-	0.0452	0.362	0.4	(88671-89-0)	-	0.0452	0.362	0.2	LOD
Carbaryl (63-25-2)	-	0.0452	0.362	0.2	Naled (300-76-5)	-	0.0452	0.362	0.5	
Carbofuran (1563-66-2)	-	0.0452	0.362	0.2	Oxamyl (23135-22-0)	-	0.0452	0.362	1	Permethrins measured as the cumulative residue of the <i>cis</i> - and
Chlorantraniliprole (800008-45-7)	-	0.0452	0.362	0.2	Paclobutrazol (76738-62-0)	-	0.0452	0.362	0.4	trans- permethrin isomers.
Chlorfenapyr		0.0450	0.262		Permethrins (52645-53-1)	-	0.0452	0.362	0.2	Pyrethrins measured as the
(122453-73-0)	-	0.0452	0.362	1	Phosmet (732-11-6)	-	0.0452	0.362	0.2	cumulative residue of the pyrethrin I, cinerin I, and jasmolin
Chlorpyrifos (2921-88-2)	-	0.0452	0.362	0.2	Piperonyl butoxide	_	0.0452	0.362	2	I isomers.
Clofentezine (74115-24-5)	-	0.0452	0.362	0.2	(51-03-6)					Action levels are referenced from
Cyfluthrin (68359-37-5)	-	0.0452	0.362	1	Prallethrins (2331-36-9)	-	0.0452	0.362	0.2	the
Cypermethrin (52315-07-8)	-	0.0452	0.362	1	Propiconazole (60207-90-1))	-	0.0452	0.362	0.4	State of Arkansas MMJ testing guidelines.
Daminozide (1596-84-5)	-	0.0452	0.362	1	Propoxur (114-26-1)	-	0.0452	0.362	0.2	A value of "-" for the action level
DDVP (62-73-7)	-	0.0452	0.362	0.1	Pyrethrins (8003-34-7)	-	0.0452	0.362	1	means that analyte is not
Diazinon (333-41-5)	-	0.0452	0.362	0.2	Pyridaben (96489-71-3)	-	0.0452	0.362	0.2	currently regulated by the
Dimethoate (60-51-5)	-	0.0452	0.362	0.2	Spinosad (168316-95-8)	-	0.0452	0.362	0.2	regulations referenced above.
Ethoprophos (13194-48-4)	-	0.0452	0.362	0.2	Spiromesifen (283594-90-1)	-	0.0452	0.362	0.2	Disclaimer: This information is
Etofenprox (80844-07-1)	-	0.0452	0.362	0.4	Spirotetramat					provided as a service and makes no claims of efficacy and/or safety
Etoxazole (153233-91-1)	-	0.0452	0.362	0.2	(203313-25-1)	-	0.0452	0.362	0.2	of this product. Results are
Fenoxycarb (72490-01-8)	-	0.0452	0.362	0.2	Spiroxamine		0.0452	0.362	0.4	applicable only for the sample(s) analyzed and for the specific
(E)-Fenpyroximate (134098-61-6)	-	0.0452	0.362	0.4	(118134-30-8) Tebuconazole					analysis conducted. This report is for informational purposes only
Fipronil (120068-37-3)	-	0.0452	0.362	0.4	(80443-41-0)	-	0.0452	0.362	0.4	and should not be used to
Flonicamid (158062-67-0)	-	0.0452	0.362	1	Thiacloprid		0.0452	0.362	0.2	diagnose, treat, or prevent any medical-related symptoms. The
Fludioxinil (131341-86-1)	-	0.0452	0.362	0.4	(111988-49-9)					statements and results herein have
Hexythiazox (78587-05-0)	-	0.0452	0.362	1	Thiamethoxam (153719-23-4)	-	0.0452	0.362	0.2	not been approved and/or
Imazalil (35554-44-0)	-	0.0452	0.362	0.2	Trifloxystrobin					endorsed by the FDA.
Imidacloprid (138261-41-3)	-	0.0452	0.362	0.4	(141517-21-7)	-	0.0452	0.362	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** Synonym(s) Cyfluthrin Myclobutanil Baythroid Systhane DDVP Dichlorvos Naled Dibrom Prophos Phosmet Imidan Ethoprophos





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Cultivar (Strain) or Sample De	scription: Log Cabin		Date Completed: 02/09/2023

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

Analysis Date/T Analysis Date/T Analyst: KF	ime: 02/08/2023 0 ime: - (DMA)	909 (ICP/OES)		thod: ICP/OES rument: Agilent 720-ES	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)	-	58.8	93.2	200	
Cadmium (Cd)	-	58.8	93.2	200	A PARA
Lead (Pb)	-	58.8	93.2	500	COLLE STORES
Mercury (Hg)	-	58.8	93.2	100	and the second s

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	7021H20221216LCB-1	Date Received: 02/06/2023
Cultivar (Strain) or Sample D	Date Completed: 02/09/2023		

MICROBIOLOGICAL PROFILE (SOP: SOP-Micro-001)

Analysis Date/Time: 20230208 1152 Analyst: PW	Method: Hardy Diagnostics CompactDry Instrument: Thermo Incubator		Deviations from SOP: None
<u>Bacteria/Microbe</u>	<u>Result</u> (CFU/g)	Action Level (CFU/g)	
Aerobic Plate Count	Absent	-	
Coliforms, Total	Absent	1	Sale of the second
Escherichia Coli (E. Coli)	NT	100	THE STORES
Mold/Yeast	NT	-	· · · · · · · · · · · · · · · · · · ·
Pseudomonas aeruginosa	NT	1	and the second s
Salmonella spp.	NT	-	CX C
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





1

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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