







## **SUMMARY OF ANALYSIS (SAMPLE ID: SA34844)**

Testing Location:Customer ID: 2161ArkansasRiver Valley Relief Cultivation232 S. Broadview St.5601 Old Greenwood Rd Suite C

Greenbrier, AR 72058 Fort Smith, AR 72903 License: ADH 113 License: 00065C

License: ADH 113 License: 00065C

Cultivar (Strain) or Sample Description: Log Cabin

Order ID: OR10381 Lot Number:

M00065C13134788935

**Production Run:** 7028H20230227LCB-2

Sample Type: Primary

**Matrix:** Flower **Mass:** 23g

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

**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/FAIL12.50.425 @ 24.4°CPASS

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>Cannabinoi</u>	ds (Top 3)	<u>(%)</u>	mg/g
THC	A	32.1	321
CBG	A	2.39	23.9
Δ9-Τ	HC	0.497	4.97
TOTAL	CBD	-	-
TOTAL	THC	28.7	287
TOTAL CANN	ABINOIDS	35.5	355
Terpenes	<u>(Top 5)</u>	<u>(%)</u>	ħā\ā
d-Limo	nene	0.757	7570
α-Pine	ene	0.254	2540
β-Pine	ene	0.207	2070
β-Caryopl	nyllene	0.206	2060
Linal	ool	0.175	1750
TOTAL TE	RPENES	2.00	20000
<u>Contaminants</u>	PASS/FAIL	Sample Pictur	e Upon Receipt

<b>Contaminants</b>	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: Log Cabin







## **CERTIFICATE OF ANALYSIS (SAMPLE ID: SA34844)**

**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:

M00065C13134788935

**Production Run:** 7028H20230227LCB-2 Sample Type: Primary

Matrix: Flower **Mass:** 23g

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

**Date Completed:** 04/07/2023

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

**Analysis Date/Time:** 04/05/2023 1807 Method: HPLC/DAD Moisture Content (%): 12.5

**Analyst: PW** 

**Instrument:** Agilent 1100

**Water Activity (aw):** 0.425 @ 24.45°C



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 =  $(CBCA \times 0.877) + CBC$ 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) +  $\Delta$ 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	0.216	0.503	-	-	-
CBCA	ND	ND	0.670	1.56	-	-	-
CBD	ND	ND	1.52	3.55	-	-	-
CBDA	ND	ND	0.560	1.31	-	-	-
CBDV	ND	ND	0.244	0.570	-	-	-
CBDVA	ND	ND	0.651	1.52	-	-	-
CBG	0.334	3.34	0.988	2.31	-	3.34	3.34
CBGA	2.39	23.9	0.708	1.65	-	23.9	23.9
CBL	ND	ND	1.14	2.67	-	-	-
CBN	ND	ND	0.524	1.22	-	-	-
CBNA	ND	ND	0.566	1.32	-	-	-
Δ9-ΤΗС	0.497	4.97	0.628	1.47	-	4.97	4.97
Δ8-ΤΗС	ND	ND	0.980	2.29	-	-	-
THCA	32.1	321	0.341	0.797	-	321	321
THCV	ND	ND	0.818	1.91	-	-	-
THCVA	0.165	1.65	0.261	0.608	-	1.65	1.65
TOTAL	35.5	355				355	355
TOTAL CBC	-	-		•	-	-	-
TOTAL CBD	-	-			-	-	-
TOTAL CBDV	-	-			-	-	-
TOTAL CBG	2.43	24.3			-	24.3	24.3
TOTAL CBN	-	-			-	-	-
TOTAL THC	28.7	287			-	287	287
* CBCA CBDVA C	0.143	1.43		. 11.1	-	1.43	1.43

<sup>\*</sup> 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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<sup>&</sup>quot;-" Not detected above LOD.









**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

Result

<u>(%)</u>

0.0446

0.0270

0.206

0.0923

0.116

0.757

0.175

0.0817

0.0137

0.0272

0.254

0.207

Fort Smith, AR 72903

License: 00065C

**Order ID:** OR10381

Lot Number: M00065C13134788935

**Production Run:** 7028H20230227LCB-2 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 0436

Result

 $(\mu g/g)$ 

446

270

2060

923

1160

7570

1750

817

137

272

2540

2070

Cultivar (Strain) or Sample Description: Log Cabin

**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** 

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

**TOTAL** 20000 2.00 Reporting Limit (µg/g): 42.7





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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

Action

Level

Pesticide

License: 00065C

LOQ

(110/0)

**Order ID:** OR10381

Lot Number: M00065C13134788935

**Production Run:** 

Pocult

7028H20230227LCB-2

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 0157

Cultivar (Strain) or Sample Description: Log Cabin

Result

(110/0)

**Analyst: KF** 

**Pesticide** 

Method: LC/MS/MS

Instrument: Shimadzu LC-8050

**Deviations from SOP:** 

None

Action

	(µg/g)	(µg/g)	(µg/g)	<u>Level</u> (μg/g)	
esoxim-methyl 43390-89-0)	-	0.0427	0.342	0.4	
alathion (121-75-5)	-	0.0427	0.342	0.2	\$ 3 - 4 3 1
etalaxyl (57837-19-1)	-	0.0427	0.342	0.2	
ethiocarb (2032-65-7)	-	0.0427	0.342	0.2	<u>Color Key</u>
ethomyl (16752-77-5)	-	0.0427	0.342	0.4	RESULT < AL
ethyl parathion 98-0-0)	-	0.0427	0.342	0.2	RESULT > AL
GK 264 (113-48-4)	-	0.0427	0.342	0.2	"DET" detected less than LOQ
zclobutanil					

1.00

LOD

"-" 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

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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	(µg/g)	(µg/g)	(µg/g)	(µg/g)		(µg/g)	(µg/g)	(µg/g)	(µg/g)
Abamectin (71751-41-2)	-	0.0427	0.342	0.5	Kresoxim-methyl	_	0.0427	0.342	0.4
Acephate (30560-19-1)	-	0.0427	0.342	0.4	(143390-89-0)				
Acequinocyl (57960-19-7)	-	0.0427	0.342	2	Malathion (121-75-5)	-	0.0427	0.342	0.2
Acetamiprid	_	0.0427	0.342	0.2	Metalaxyl (57837-19-1)	-	0.0427	0.342	0.2
(135410-20-7)					Methiocarb (2032-65-7)	-	0.0427	0.342	0.2
Aldicarb (116-06-3)	-	0.0427	0.342	0.4	Methomyl (16752-77-5)	-	0.0427	0.342	0.4
Azoxystrobin (131860-33-8)	-	0.0427	0.342	0.2	Methyl parathion (298-0-0)	-	0.0427	0.342	0.2
Bifenazate (149877-41-8)	-	0.0427	0.342	0.2	MGK 264 (113-48-4)	-	0.0427	0.342	0.2
Bifenthrin (82657-04-3)	-	0.0427	0.342	0.2	Myclobutanil	_	0.0427	0.342	0.2
Boscalid (188425-85-6)	-	0.0427	0.342	0.4	(88671-89-0)		0.0427	0.242	0.5
Carbaryl (63-25-2)	-	0.0427	0.342	0.2	Naled (300-76-5)	-	0.0427	0.342	0.5
Carbofuran (1563-66-2)	-	0.0427	0.342	0.2	Oxamyl (23135-22-0)	-	0.0427	0.342	1
Chlorantraniliprole (800008-45-7)	-	0.0427	0.342	0.2	Paclobutrazol (76738-62-0)	-	0.0427	0.342	0.4
Chlorfenapyr		0.0427	0.342	1	Permethrins (52645-53-1)	-	0.0427	0.342	0.2
(122453-73-0)	_	0.0427	0.342		Phosmet (732-11-6)	-	0.0427	0.342	0.2
Chlorpyrifos (2921-88-2)	-	0.0427	0.342	0.2	Piperonyl butoxide		0.0427	0.342	2
Clofentezine (74115-24-5)	-	0.0427	0.342	0.2	(51-03-6) Prallethrins (2331-36-9)		0.0427	0.342	0.2
Cyfluthrin (68359-37-5)	-	0.0427	0.342	1	,	-	0.0427	0.342	0.2
Cypermethrin (52315-07-8)	-	0.0427	0.342	1	Propiconazole (60207-90-1))	-	0.0427	0.342	0.4
Daminozide (1596-84-5)	-	0.0427	0.342	1	Propoxur (114-26-1)	-	0.0427	0.342	0.2
DDVP (62-73-7)	-	0.0427	0.342	0.1	Pyrethrins (8003-34-7)	-	0.0427	0.342	1
Diazinon (333-41-5)	-	0.0427	0.342	0.2	Pyridaben (96489-71-3)	-	0.0427	0.342	0.2
Dimethoate (60-51-5)	-	0.0427	0.342	0.2	Spinosad (168316-95-8)	-	0.0427	0.342	0.2
Ethoprophos (13194-48-4)	-	0.0427	0.342	0.2	Spiromesifen (283594-90-1)	_	0.0427	0.342	0.2
Etofenprox (80844-07-1)	-	0.0427	0.342	0.4	Spirotetramat				
Etoxazole (153233-91-1)	-	0.0427	0.342	0.2	(203313-25-1)	-	0.0427	0.342	0.2
Fenoxycarb (72490-01-8)	-	0.0427	0.342	0.2	Spiroxamine		0.0427	0.342	0.4
(E)-Fenpyroximate (134098-61-6)	-	0.0427	0.342	0.4	(118134-30-8) Tebuconazole	-			
Fipronil (120068-37-3)	-	0.0427	0.342	0.4	(80443-41-0)	-	0.0427	0.342	0.4
Flonicamid (158062-67-0)	-	0.0427	0.342	1	Thiacloprid	_	0.0427	0.342	0.2
Fludioxinil (131341-86-1)	-	0.0427	0.342	0.4	(111988-49-9)		0.0 .27	0.0.2	0.2
Hexythiazox (78587-05-0)	-	0.0427	0.342	1	Thiamethoxam (153719-23-4)	-	0.0427	0.342	0.2
Imazalil (35554-44-0)	-	0.0427	0.342	0.2	Trifloxystrobin				
Imidacloprid (138261-41-3)	-	0.0427	0.342	0.4	(141517-21-7)	-	0.0427	0.342	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

<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









Testing Location:Customer ID: 2161ArkansasRiver Valley Relief Cultivation232 S. Broadview St.5601 Old Greenwood Rd Suite Company

Cultivar (Strain) or Sample Description: Log Cabin

5601 Old Greenwood Rd Suite C Fort Smith, AR 72903

License: 00065C

Order ID: OR10381 Lot Number:

M00065C13134788935

**Production Run:** 7028H20230227LCB-2

Sample Type: Primary

**Matrix:** Flower **Mass:** 23g

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

**Date Completed:** 04/07/2023

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

Analysis Date/Time: 04/05/2023 2235 (ICP/OES) Method: ICP/OES Deviations from SOP:

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

**Analyst:** KF

Greenbrier, AR 72058

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)	-	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: SA34844Sample Type: PrimaryArkansasRiver Valley Relief CultivationLot Number:Matrix: Flower232 S. Broadview St.5601 Old Greenwood Rd Suite CM00065C13134788935Mass: 23g

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

 License: ADA 05\_H273
 License: 00065C
 7028H20230227LCB-2
 Date Received: 04/04/2023

Cultivar (Strain) or Sample Description: Log Cabin

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	<u>Result</u> (CFU/g)	Action Level (CFU/g)
Aerobic Plate Count	NT	-
Coliforms, Total	Present	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)

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