







# **SUMMARY OF ANALYSIS (SAMPLE ID: SA32486)**

Order ID: OR10043 **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 M00065C13139401504 Mass: 17.00g

Greenbrier, AR 72058 Fort Smith, AR 72903 **Production Run: Date Collected:** 09/21/2022 1008H20220812LCB1 License: ADH 113 License: 00065C **Date Received:** 09/22/2022 Cultivar (Strain) or Sample Description: Log Cabin **Date Completed:** 09/25/2022

\*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 (%)** 0.504 @ 23.7°C **PASS** 124

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
THO	CA	23.6	236
CBG	GA	1.44	14.4
CB	G	0.312	3.12
TOTAL	CBD	-	-
TOTAL	THC	21.0	210
TOTAL CAN	NABINOIDS	25.8	258
<u>Terpenes</u>	s (Top 5)	<u>(%)</u>	µg/g
d-Lim	d-Limonene		5290
β-Caryophyllene		0.221	2210
Lina	Linalool		2150
β-Pir	β-Pinene		1570
α-Pir	α-Pinene		1440
TOTAL TE	TOTAL TERPENES		16300
Contaminants	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: SA32486)**

**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: OR10043 Lot Number:

M00065C13139401504

**Production Run:** 1008H20220812LCB1 Sample Type: Primary

Matrix: Flower Mass: 17.00g

**Date Collected:** 09/21/2022 **Date Received:** 09/22/2022

**Date Completed:** 09/25/2022

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

**Analysis Date/Time:** 9/23/2022 2036 Method: HPLC/DAD Moisture Content (%): 12.4

**Analyst: PW** 

**Instrument:** Agilent 1100

Water Activity (aw): 0.504 @ 23.74°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 (%)	<u>UM</u> (+/-%)	Result (mg/g)	LOQ (mg/g)	Result (mg/ mL)	Per Serving (mg)	Per Unit (mg)
CBC	-	-	-	0.261	-	-	-
CBCA	-	-	-	0.261	-	-	-
CBD	-	-	-	0.261	-	-	-
CBDA	DET	-	DET	0.261	-	-	-
CBDV	-	-	-	0.261	-	-	-
CBDVA	-	-	-	0.261	-	-	-
CBG	0.312	0.0406	3.12	0.261	-	3.12	3.12
CBGA	1.44	0.158	14.4	0.261	-	14.4	14.4
CBL	-	-	-	0.261	-	-	-
CBN	-	-	-	0.261	-	-	-
CBNA	-	-	-	0.261	-	-	-
Δ9-ΤΗС	0.290	0.0493	2.90	0.261	-	2.90	2.90
Δ8-ΤΗС	-	-	-	0.261	-	-	-
THCA	23.6	2.36	236	0.261	-	236	236
THCV	-	-	-	0.261	-	-	-
THCVA	0.221	0.0111	2.21	0.261	-	2.21	2.21
TOTAL	25.8	2.62	258		-	258	258
TOTAL CBC	-	-	-		-	-	-
TOTAL CBD	-	-	-		-	-	-
TOTAL CBDV	-	-	-		-	-	-
TOTAL CBG	1.57	0.179	15.7		-	15.7	15.7
TOTAL CBN	-	-	-		-	-	-
TOTAL THC	21.0	2.12	210		-	210	210
TOTAL THCV	0.192	0.00958	1.92		-	1.92	1.92
* CBCA, CBDVA, CBL, CBNA, and THCVA are in process of being added to our accreditation scope.							

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.



Cultivar (Strain) or Sample Description: Log Cabin







## **CERTIFICATE OF ANALYSIS (SAMPLE ID: SA32486)**

**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:** OR10043 Lot Number: M00065C13139401504 **Production Run:** 1008H20220812LCB1

Sample Type: Primary Matrix: Flower Mass: 17.00g

**Date Collected:** 09/21/2022 **Date Received:** 09/22/2022

**Date Completed:** 09/25/2022

### TERPENOID PROFILE

Analysis Date/Time:09/24/2022 1541 Method: GC/MS

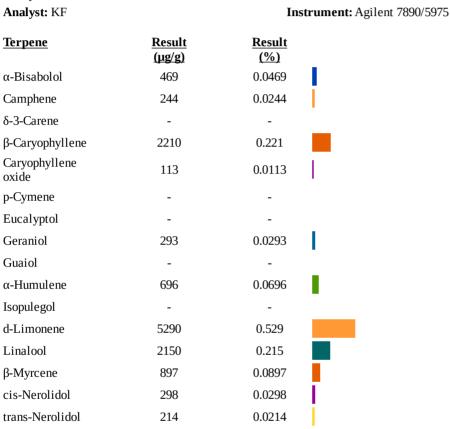
0.0359

0.144

0.157

0.00650

**Deviations from SOP:** None



359

1440

1570

65.0



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

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"-" Not detected above RL

**TOTAL** 16300 1.63 Reporting Limit (µg/g): 17.3



α-Ocimene

**β-Ocimene** 

α-Pinene

**B-Pinene** 

α-Terpinene y-Terpinene Terpinolene











## **CERTIFICATE OF ANALYSIS (SAMPLE ID: SA32486)**

**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: OR10043

Lot Number:

M00065C13139401504

**Production Run:** 1008H20220812LCB1 Sample Type: Primary

Matrix: Flower Mass: 17.00g

**Date Collected:** 09/21/2022 **Date Received:** 09/22/2022

**Date Completed:** 09/25/2022

## PESTICIDES PROFILE (SOP: SOP-PEST-001)

Analysis Date/Time: 09/23/2022 2209

Cultivar (Strain) or Sample Description: Log Cabin

**Analyst: KF** 

Method: LC/MS/MS

Instrument: Shimadzu LC-8050

**Deviations from SOP:** 

None

<u>Pesticide</u>	<u>Result</u> (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)	LOQ (µg/g)	<u>Action</u> <u>Level</u> (μg/g)
Abamectin (71751-41-2)	-	0.0173	0.138	0.5	Kresoxim-methyl	_	0.0173	0.138	0.4
Acephate (30560-19-1)	-	0.0173	0.138	0.4	(143390-89-0)				
Acequinocyl (57960-19-7)	-	0.0173	0.138	2	Malathion (121-75-5)	-	0.0173	0.138	0.2
Acetamiprid (135410-20-7)	-	0.0173	0.138	0.2	Metalaxyl (57837-19-1) Methiocarb (2032-65-7)		0.0173 0.0173	0.138 0.138	0.2 0.2
Aldicarb (116-06-3)	-	0.0173	0.138	0.4	Methomyl (16752-77-5)	-	0.0173	0.138	0.4
Azoxystrobin (131860-33-8)	-	0.0173	0.138	0.2	Methyl parathion (298-0-0)	-	0.0173	0.138	0.2
Bifenazate (149877-41-8)	-	0.0173	0.138	0.2	MGK 264 (113-48-4)	-	0.0173	0.138	0.2
Bifenthrin (82657-04-3)	-	0.0173	0.138	0.2	Myclobutanil		0.0173	0.138	0.2
Boscalid (188425-85-6)	-	0.0173	0.138	0.4	(88671-89-0)		0.0173	0.130	0.2
Carbaryl (63-25-2)	-	0.0173	0.138	0.2	Naled (300-76-5)	-	0.0173	0.138	0.5
Carbofuran (1563-66-2)	-	0.0173	0.138	0.2	Oxamyl (23135-22-0)	-	0.0173	0.138	1
Chlorantraniliprole (800008-45-7)	-	0.0173	0.138	0.2	Paclobutrazol (76738-62-0)	-	0.0173	0.138	0.4
Chlorfenapyr		0.0173	0.120	1	Permethrins (52645-53-1)	-	0.0173	0.138	0.2
(122453-73-0)	-	0.0173	0.138	1	Phosmet (732-11-6)	-	0.0173	0.138	0.2
Chlorpyrifos (2921-88-2)	-	0.0173	0.138	0.2	Piperonyl butoxide	DET	0.0173	0.138	2
Clofentezine (74115-24-5)	-	0.0173	0.138	0.2	(51-03-6)				
Cyfluthrin (68359-37-5)	-	0.0173	0.138	1	Prallethrins (2331-36-9)	-	0.0173	0.138	0.2
Cypermethrin (52315-07-8)	-	0.0173	0.138	1	Propiconazole (60207-90-1))	-	0.0173	0.138	0.4
Daminozide (1596-84-5)	-	0.0173	0.138	1	Propoxur (114-26-1)	-	0.0173	0.138	0.2
DDVP (62-73-7)	-	0.0173	0.138	0.1	Pyrethrins (8003-34-7)	-	0.0173	0.138	1
Diazinon (333-41-5)	_	0.0173	0.138	0.2	Pyridaben (96489-71-3)	-	0.0173	0.138	0.2
Dimethoate (60-51-5)	_	0.0173	0.138	0.2	Spinosad (168316-95-8)	-	0.0173	0.138	0.2
Ethoprophos (13194-48-4)	-	0.0173	0.138	0.2	Spiromesifen	_	0.0173	0.138	0.2
Etofenprox (80844-07-1)	-	0.0173	0.138	0.4	(283594-90-1)				
Etoxazole (153233-91-1)	-	0.0173	0.138	0.2	Spirotetramat (203313-25-1)	-	0.0173	0.138	0.2
Fenoxycarb (72490-01-8)	_	0.0173	0.138	0.2	Spiroxamine				
(E)-Fenpyroximate (134098-61-6)	-	0.0173	0.138	0.4	(118134-30-8) Tebuconazole	-	0.0173	0.138	0.4
Fipronil (120068-37-3)	_	0.0173	0.138	0.4	(80443-41-0)	-	0.0173	0.138	0.4
Flonicamid (158062-67-0)	_	0.0173	0.138	1	Thiacloprid		0.0172	0.120	0.2
Fludioxinil (131341-86-1)	_	0.0173	0.138	0.4	(111988-49-9)		0.0173	0.138	0.2
Hexythiazox (78587-05-0)	_	0.0173	0.138	1	Thiamethoxam	_	0.0173	0.138	0.2
Imazalil (35554-44-0)		0.0173	0.138	0.2	(153719-23-4)				
Imidacloprid (138261-41-3)	-	0.0173	0.138	0.4	Trifloxystrobin (141517-21-7)	-	0.0173	0.138	0.2



Color Key

"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

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		











1008H20220812LCB1



**Date Received:** 09/22/2022

## **CERTIFICATE OF ANALYSIS (SAMPLE ID: SA32486)**

Testing Location:Customer ID: 2161Order ID: OR10043Sample Type: PrimaryArkansasRiver Valley Relief CultivationLot Number:Matrix: Flower

232 S. Broadview St. 5601 Old Greenwood Rd Suite C M00065C13139401504 Mass: 17.00g
Greenbrier, AR 72058 Fort Smith, AR 72903 Production Run: Date Collected: 09/21/2022

Cultivar (Strain) or Sample Description: Log Cabin

Date Completed: 09/25/2022

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

Analysis Date/Time: 09/23/2022 0753 (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)	-	59.2	93.7	200
Cadmium (Cd)	-	59.2	93.7	200
Lead (Pb)	-	59.2	93.7	500
Mercury (Hg)	_	59.2	93.7	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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License: ADA 05 H273





1008H20220812LCB1



**Date Received:** 09/22/2022

## **CERTIFICATE OF ANALYSIS (SAMPLE ID: SA32486)**

Testing Location:Customer ID: 2161Sample ID: SA32486Sample Type: PrimaryArkansasRiver Valley Relief CultivationLot Number:Matrix: Flower

232 S. Broadview St. 5601 Old Greenwood Rd Suite C M00065C13139401504 Mass: 17.00g
Greenbrier, AR 72058 Fort Smith, AR 72903 Production Run: Date Collected: 09/21/2022

Cultivar (Strain) or Sample Description: Log Cabin

Date Completed: 09/25/2022

# MICROBIOLOGICAL PROFILE (SOP: SOP-Micro-001)

**Analysis Date/Time:** 20220923 1310 **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	-

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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