

SUMMARY OF ANALYSIS (SAMPLE ID: SA35562)

Testing Location:	Customer ID: 2161	Order ID: OR10516	Sample Type: Primary
Arkansas	River Valley Relief Cultivation	Lot Number:	Matrix: Flower
232 S. Broadview St.	5601 Old Greenwood Rd Suite C	M00065C13133624277	Mass: 11g
Greenbrier, AR 72058	Fort Smith, AR 72903	Production Run:	Date Collected: 07/05/2023
License: ADH 113	License: 00065C	7035H20230519LCB-2	Date Received: 07/05/2023
Cultivar (Strain) or Sample Description: Log Cabin			Date Completed: 07/07/2023

*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 (%)

10.5

Water Activity (aw)

0.477 @ 24.6°C

PASS/FAIL

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	28.0	280
CBGA	1.48	14.8
Δ9-THC	0.518	5.18
TOTAL CBD	-	-
TOTAL THC	25.0	250
TOTAL CANNABINOIDS	30.3	303

Terpenes (Top 5)	(%)	µg/g
d-Limonene	0.715	7150
α-Pinene	0.102	1020
β-Pinene	0.0957	957
β-Caryophyllene	0.0757	757
β-Myrcene	0.0677	677
TOTAL TERPENES	1.19	11900

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

Sample Picture Upon Receipt



Scan the QR code to verify results.

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Kyle W. Felling
Kyle W. Felling, Ph.D.
Laboratory Director



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

Analysis Date/Time: 07/06/2023 1247

Method: HPLC/DAD

Moisture Content (%): 10.5

Analyst: PW

Instrument: Agilent 1100

Water Activity (aw): 0.477 @ 24.6°C

<u>Cannabinoid</u>	<u>Result</u> (%)	<u>Result</u> (mg/g)	<u>LOD</u> (mg/g)	<u>LOQ</u> (mg/g)	<u>Result</u> (mg/ mL)	<u>Per</u> <u>Serving</u> (mg)	<u>Per</u> <u>Unit</u> (mg)
CBC	ND	ND	0.0394	0.0918	-	-	-
CBCA	ND	ND	0.122	0.285	-	-	-
CBD	ND	ND	0.278	0.648	-	-	-
CBDV	ND	ND	0.102	0.239	-	-	-
CBDVA	ND	ND	0.0445	0.104	-	-	-
CBDVA	ND	ND	0.119	0.277	-	-	-
CBG	0.211	2.11	0.180	0.421	-	1.89	1.89
CBGA	1.48	14.8	0.255	0.301	-	13.2	13.2
CBL	ND	ND	0.208	0.486	-	-	-
CBN	ND	ND	0.0956	0.223	-	-	-
CBNA	ND	ND	0.103	0.241	-	-	-
Δ9-THC	0.518	5.18	0.115	0.267	-	4.63	4.63
Δ8-THC	ND	ND	0.179	0.417	-	-	-
THCA	28.0	280	0.0621	0.145	-	250	250
THCV	ND	ND	0.149	0.348	-	-	-
THCVA	0.144	1.44	0.0476	0.111	-	1.29	1.29
TOTAL	30.3	303			-	271	271
TOTAL CBC	-	-			-	-	-
TOTAL CBD	-	-			-	-	-
TOTAL CBDV	-	-			-	-	-
TOTAL CBG	1.51	15.1			-	13.5	13.5
TOTAL CBN	-	-			-	-	-
TOTAL THC	25.0	250			-	224	224
TOTAL THCV	0.125	1.25			-	1.12	1.12



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 = (CBDV 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) + Δ9-THC
Total THCV = (THCVA x 0.867) + THCV

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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Percentage results are reported by mass.

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

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TERPENOID PROFILE

Analysis Date/Time: 07/06/2023 2036

Analyst: KF

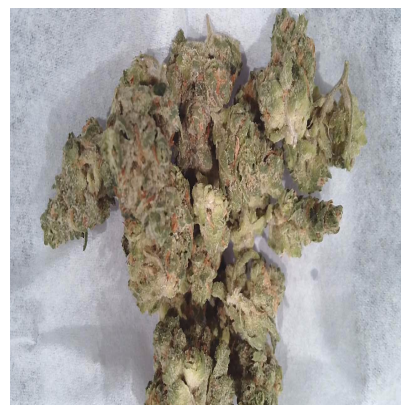
Method: GC/MS

Instrument: Agilent 7890/5975

Deviations from SOP:

None

<u>Terpene</u>	<u>Result</u> (µg/g)	<u>Result</u> (%)	
α-Bisabolol	18.5	0.00185	
Camphene	188	0.0188	
δ-3-Carene	-	-	
β-Caryophyllene	757	0.0757	
Caryophyllene oxide	-	-	
p-Cymene	-	-	
Eucalyptol	-	-	
Geraniol	-	-	
Guaiol	-	-	
α-Humulene	218	0.0218	
Isopulegol	-	-	
d-Limonene	7150	0.715	
Linalool	467	0.0467	
β-Myrcene	677	0.0677	
cis-Nerolidol	22.0	0.00220	
trans-Nerolidol	56.2	0.00562	
α-Ocimene	-	-	
β-Ocimene	235	0.0235	
α-Pinene	1020	0.102	
β-Pinene	957	0.0957	
α-Terpinene	8.86	0.000886	
γ-Terpinene	12.7	0.00127	
Terpinolene	74.4	0.00744	
TOTAL	11900	1.19	



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

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"-" Not detected above RL.

Reporting Limit (µg/g): 253

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PESTICIDES PROFILE (SOP: SOP-PEST-001)

Analysis Date/Time: 07/06/2023 1317

Analyst: KF

Method: LC/MS/MS

Instrument: Shimadzu LC-8050

Deviations from SOP:

None

Pesticide	Result (µg/g)	LOD (µg/g)	LOQ (µg/g)	Action Level (µg/g)	Pesticide	Result (µg/g)	LOD (µg/g)	LOQ (µg/g)	Action Level (µg/g)
Abamectin (71751-41-2)	-	0.0431	0.345	0.5	Kresoxim-methyl (143390-89-0)	-	0.0431	0.345	0.4
Acephate (30560-19-1)	-	0.0431	0.345	0.4	Malathion (121-75-5)	-	0.0431	0.345	0.2
Acetaminophen (57960-19-7)	-	0.0431	0.345	2	Metalaxyl (57837-19-1)	-	0.0431	0.345	0.2
Acetamiprid (135410-20-7)	-	0.0431	0.345	0.2	Methiocarb (2032-65-7)	-	0.0431	0.345	0.2
Aldicarb (116-06-3)	-	0.0431	0.345	0.4	Methomyl (16752-77-5)	-	0.0431	0.345	0.4
Azoxystrobin (131860-33-8)	-	0.0431	0.345	0.2	Methyl parathion (298-0-0)	-	0.0431	0.345	0.2
Bifenazate (149877-41-8)	-	0.0431	0.345	0.2	MGK 264 (113-48-4)	-	0.0431	0.345	0.2
Bifenthrin (82657-04-3)	-	0.0431	0.345	0.2	Myclobutanil (88671-89-0)	-	0.0431	0.345	0.2
Boscalid (188425-85-6)	-	0.0431	0.345	0.4	Naled (300-76-5)	-	0.0431	0.345	0.5
Carbaryl (63-25-2)	-	0.0431	0.345	0.2	Oxamyl (23135-22-0)	-	0.0431	0.345	1
Carbofuran (1563-66-2)	-	0.0431	0.345	0.2	Paclobutrazol (76738-62-0)	-	0.0431	0.345	0.4
Chlorantraniliprole (800008-45-7)	-	0.0431	0.345	0.2	Permethrins (52645-53-1)	-	0.0431	0.345	0.2
Chlorfenapyr (122453-73-0)	-	0.0431	0.345	1	Phosmet (732-11-6)	-	0.0431	0.345	0.2
Chlorpyrifos (2921-88-2)	-	0.0431	0.345	0.2	Piperonyl butoxide (51-03-6)	-	0.0431	0.345	2
Clofentezine (74115-24-5)	-	0.0431	0.345	0.2	Prallethrin (2331-36-9)	-	0.0431	0.345	0.2
Cyfluthrin (68359-37-5)	-	0.0431	0.345	1	Propiconazole (60207-90-1))	-	0.0431	0.345	0.4
Cypermethrin (52315-07-8)	-	0.0431	0.345	1	Propoxur (114-26-1)	-	0.0431	0.345	0.2
Daminozide (1596-84-5)	-	0.0431	0.345	1	Pyrethrins (8003-34-7)	-	0.0431	0.345	1
DDVP (62-73-7)	-	0.0431	0.345	0.1	Pyridaben (96489-71-3)	-	0.0431	0.345	0.2
Diazinon (333-41-5)	-	0.0431	0.345	0.2	Spinosad (168316-95-8)	-	0.0431	0.345	0.2
Dimethoate (60-51-5)	-	0.0431	0.345	0.2	Spiromesifen (283594-90-1)	-	0.0431	0.345	0.2
Ethoprophos (13194-48-4)	-	0.0431	0.345	0.2	Spirotetramat (203313-25-1)	-	0.0431	0.345	0.2
Etofenprox (80844-07-1)	-	0.0431	0.345	0.4	Spiroxamine (118134-30-8)	-	0.0431	0.345	0.4
Etoazoxole (153233-91-1)	-	0.0431	0.345	0.2	Tebuconazole (80443-41-0)	-	0.0431	0.345	0.4
Fenoxycarb (72490-01-8)	-	0.0431	0.345	0.2	Thiacloprid (111988-49-9)	-	0.0431	0.345	0.2
(E)-Fenpyroximate (134098-61-6)	-	0.0431	0.345	0.4	Thiamethoxam (153719-23-4)	-	0.0431	0.345	0.2
Fipronil (120068-37-3)	-	0.0431	0.345	0.4	Trifloxystrobin (141517-21-7)	-	0.0431	0.345	0.2
Flonicamid (158062-67-0)	-	0.0431	0.345	1					
Fludioxinil (131341-86-1)	-	0.0431	0.345	0.4					
Hexythiazox (78587-05-0)	-	0.0431	0.345	1					
Imazalil (35554-44-0)	-	0.0431	0.345	0.2					
Imidacloprid (138261-41-3)	-	0.0431	0.345	0.4					



Color Key

RESULT < AL

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.

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

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

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

Analysis Date/Time: 07/07/2023 1258 (ICP/OES)	Method: ICP/MS	Deviations from SOP:
Analysis Date/Time: - (DMA)	Instrument: Agilent 7500ce	None
Analyst: KF		

Heavy Metal	Result (µg/kg)	LOD (µg/kg)	LOQ (µg/kg)	Action Level (µg/kg)
Arsenic (As)	-	58.3	92.3	200
Cadmium (Cd)	-	58.3	92.3	200
Lead (Pb)	-	58.3	92.3	500
Mercury (Hg)	-	58.3	92.3	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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MICROBIOLOGICAL PROFILE (SOP: SOP-Micro-001)

Analysis Date/Time: 07/06/2023 1348
Analyst: PW
Method: Hardy Diagnostics CompactDry
Instrument: Thermo Incubator
Deviations from SOP: None

Bacteria/Microbe	Result (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	-
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)

1

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