







SUMMARY OF ANALYSIS (SAMPLE ID: SA35514)

Testing Location:	Customer ID: 2161	Order ID: OR10509	Sample Type: Primary	
Arkansas	River Valley Relief Cultivation	Lot Number:	Matrix: Flower	
232 S. Broadview St.	5601 Old Greenwood Rd Suite C	M00065C13137316394	Mass: 12Grams	
Greenbrier, AR 72058	Fort Smith, AR 72903	Production Run:	Date Collected: 06/26/2023	
License: ADH 113	License: 00065C	7035H20230519MT4-1	Date Received: 06/27/2023	
Cultivar (Strain) or Sample Description: Mai Tai #4Date Completed: 06/29/202				

*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
12.2	0.479 @ 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.

Cannabinoids (Top 3)	<u>(%)</u>	<u>mg</u> /g
THCA	26.0	260
CBGA	0.855	8.55
Δ9-ΤΗΟ	0.310	3.10
TOTAL CBD	-	-
TOTAL THC	23.1	231
TOTAL CANNABINOIDS	27.3	273
<u>Terpenes (Top 5)</u>	<u>(%)</u>	<u>µg/g</u>
<u>Terpenes (Top 5)</u> d-Limonene	<u>(%)</u> 0.695	<mark>µg/g</mark> 6950
d-Limonene	0.695	6950
d-Limonene β-Caryophyllene	0.695 0.242	6950 2420
d-Limonene β-Caryophyllene β-Ocimene	0.695 0.242 0.139	6950 2420 1390

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





Scan the QR code to verify results.

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Kyle W. Felling, Ph.D. aboratory Director

REPORT OF LABORATORY ANALYSIS

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Analyzed on behalf of:



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Cultivar (Strain) or Sample De	Date Completed: 06/29/2023		

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

Analysis Date/Time: 06/27/2023 1545 Analyst: PW Method: HPLC/DAD Instrument: Agilent 1100

<u>Cannabinoid</u>	<u>Result</u> (<u>%)</u>	<u>Result</u> (mg/g)	<u>LOD</u> (<u>mg/g)</u>	<u>LOQ</u> (mg/g)	<u>Result</u> (mg/ mL)	<u>Per</u> Serving (mg)	<u>Per</u> g <u>Unit</u> (mg)
CBC	ND	ND	0.0429	0.100	-	-	-
CBCA	ND	ND	0.133	0.311	-	-	-
CBD	ND	ND	0.302	0.706	-	-	-
CBDA	ND	ND	0.111	0.260	-	-	-
CBDV	ND	ND	0.0485	0.113	-	-	-
CBDVA	ND	ND	0.129	0.302	-	-	-
CBG	0.0556	0.556	0.196	0.459	-	0.488	0.488
CBGA	0.855	8.55	0.278	0.328	-	7.51	7.51
CBL	ND	ND	0.227	0.530	-	-	-
CBN	ND	ND	0.104	0.243	-	-	-
CBNA	ND	ND	0.112	0.262	-	-	-
Δ9-ΤΗC	0.310	3.10	0.125	0.291	-	2.72	2.72
Δ8-THC	ND	ND	0.195	0.455	-	-	-
THCA	26.0	260	0.0677	0.158	-	228	228
THCV	ND	ND	0.162	0.379	-	-	-
THCVA	0.123	1.23	0.0519	0.121	-	1.08	1.08
TOTAL	27.3	273				240	240
TOTAL CBC	-	-				-	-
TOTAL CBD	-	-			-	-	-
TOTAL CBDV	-	-			-	-	-
TOTAL CBG	0.807	8.07			-	7.08	7.08
TOTAL CBN	-	-			-	-	-
TOTAL THC	23.1	231			-	203	203
TOTAL THCV	0.107	1.07			-	0.937	0.937

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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P-CANN-001) Moisture Content (%): 12.2

Water Activity (aw): 0.479 @ 24.6°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.











Analyzed on behalf of:



CERTIFICATE OF ANALYSIS (SAMPLE ID: SA35514)

Testing Location:	Customer ID: 2161	Order ID: OR10509		
Arkansas	River Valley Relief Cultivation	Lot Number:		
232 S. Broadview St.	5601 Old Greenwood Rd Suite C	M00065C13137316394		
Greenbrier, AR 72058	Fort Smith, AR 72903	Production Run:		
License: ADH 113	License: 00065C	7035H20230519MT4-1		
Cultivar (Strain) or Sample Description: Mai Tai #4				

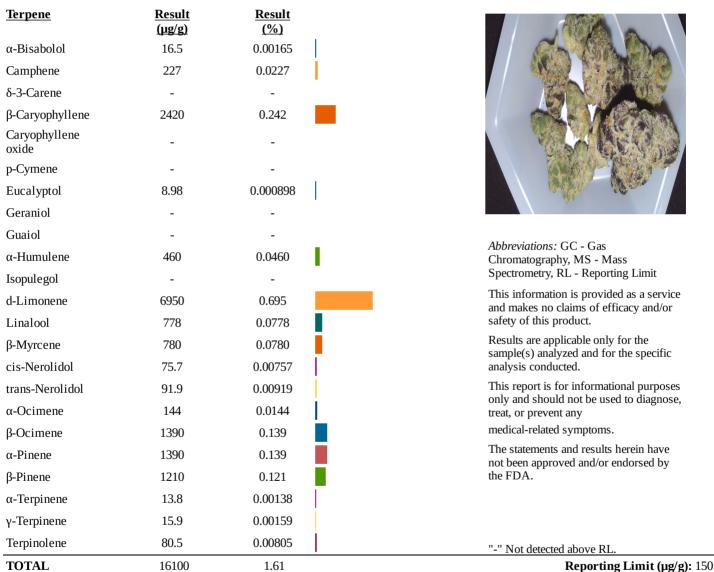
Sample Type: Primary Matrix: Flower Mass: 12Grams Date Collected: 06/26/2023 Date Received: 06/27/2023 Date Completed: 06/29/2023

Analysis Date/Time:06/27/2023 1817 Analyst: KF

TERPENOID PROFILE

Method: GC/MS Instrument: Agilent 7890/5975

Deviations from SOP: None















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Arkansas	River Valley Relief Cultivation	Lot Number:	Matrix: Flower
232 S. Broadview St.	5601 Old Greenwood Rd Suite C	M00065C13137316394	Mass: 12Grams
Greenbrier, AR 72058	Fort Smith, AR 72903	Production Run:	Date Collected: 06/26/2023
License: ADH 113	License: 00065C	7035H20230519MT4-1	Date Received: 06/27/2023
Cultivar (Strain) or Sample D	Date Completed: 06/29/2023		

Analysis Date/Time. 06/27/2022 1520

PESTICIDES PROFILE (SOP: SOP-PEST-001)

06/2//2	.023 1530	J		Method: LC/MS/MS Instrument: Shimadzu LC-8050			Deviations None		
<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> <u>Level</u> (µg/g)	
-	0.0469	0.376	0.5	Kresoxim-methyl	_	0.0469	0 376	0.4	
-	0.0469	0.376	0.4	· · · · ·					
-	0.0469	0.376	2	```	-				
-	0.0469	0.376	0.2	Metalaxyl (57837-19-1) Methiocarb (2032-65-7)	-	0.0469 0.0469	0.376 0.376	0.2 0.2	
-	0.0469	0.376	0.4	Methomyl (16752-77-5)	-	0.0469	0.376	0.4	
-	0.0469	0.376	0.2	Methyl parathion (298-0-0)	-	0.0469	0.376	0.2	
-	0.0469	0.376	0.2	MGK 264 (113-48-4)	-	0.0469	0.376	0.2	
-	0.0469	0.376	0.2	Myclobutanil		0.0460	0.276	0.2	
-	0.0469	0.376	0.4	(88671-89-0)	-	0.0469	0.376	0.2	
-	0.0469	0.376	0.2	Naled (300-76-5)	-	0.0469	0.376	0.5	
-	0.0469	0.376	0.2	Oxamyl (23135-22-0)	-	0.0469	0.376	1	с
-	0.0469	0.376	0.2	Paclobutrazol (76738-62-0)	-	0.0469	0.376	0.4	
	0.0400	0.270	1	Permethrins (52645-53-1)	-	0.0469	0.376	0.2	
	0.0469	0.376	1	Phosmet (732-11-6)	-	0.0469	0.376	0.2	р
-	0.0469	0.376	0.2	Piperonyl butoxide	_	0.0469	0.376	2	Р
-	0.0469	0.376	0.2	· /					I
-	0.0469	0.376	1	· · · · ·	-	0.0469	0.376	0.2	1
-	0.0469	0.376	1	(60207-90-1))	-	0.0469	0.376	0.4	
-	0.0469	0.376	1	/	-				1
-	0.0469	0.376	0.1	, , , , , , , , , , , , , , , , , , ,	-			-	1
-	0.0469	0.376	0.2	, , , , , , , , , , , , , , , , , , ,	-	0.0469			
-	0.0469	0.376	0.2	,	-	0.0469	0.376	0.2	
-	0.0469	0.376	0.2		-	0.0469	0.376	0.2	
-	0.0469	0.376	0.4	· · · · ·					n
-	0.0469	0.376	0.2		-	0.0469	0.376	0.2	11
-	0.0469	0.376	0.2	· · · · ·		0.0460	0.070	0.4	á
-	0.0469	0.376	0.4	(118134-30-8)	-				a
-	0.0469	0.376	0.4	(80443-41-0)	-	0.0469	0.376	0.4	
-	0.0469	0.376	1	Thiacloprid	_	0.0469	0 376	0.2	
-	0.0469	0.376	0.4	(111988-49-9)		0.0405	0.370	0.2	s
-	0.0469	0.376	1	Thiamethoxam	-	0.0469	0.376	0.2	0
-	0.0469	0.376	0.2	· /					
-	0.0469	0.376	0.4	(141517-21-7)	-	0.0469	0.376	0.2	
	<u>Result</u>	ResultLOB0.04690.0	LonLon(ug/g)	Resur (ug/s)LOB (ug/s)LOB (ug/s)Action (ug/s)0.04690.3760.50.04690.3760.20.04690.3760.20.04690.3760.20.04690.3760.20.04690.3760.20.04690.3760.20.04690.3760.20.04690.3760.20.04690.3760.20.04690.3760.20.04690.3760.20.04690.3760.20.04690.3760.20.04690.3760.20.04690.37610.04690.37610.04690.37610.04690.37610.04690.37610.04690.3760.20.04690.37610.04690.37610.04690.3760.20.04690.3760.20.04690.37610.04690.3760.20.04690.3760.20.04690.3760.20.04690.3760.20.04690.3760.20.04690.3760.20.04690.3760.20.04690.3760.20.04690.3760.20.04690.3760.20.04690.3760.20.04690.3760.20.04690.3760.2 <td>Rand (mathematication (mathematication)And (mathematication)And (mathematication)Rand (mathematication)0.0000.3700.00(143300-890.000000000000000000000000000000000</td> <td>Rame ADD ADD ADD Added Particle 1000 0.300 0.30 0.300<!--</td--><td>RameLowL</td><td>Rand noDo noLo no<!--</td--><td>Instrument: Shurcheck Sume Sume</td></br></br></br></br></br></br></br></br></br></br></br></br></br></td></td>	Rand (mathematication (mathematication)And (mathematication)And (mathematication)Rand (mathematication)0.0000.3700.00(143300-890.000000000000000000000000000000000	Rame ADD ADD ADD Added Particle 1000 0.300 0.30 0.300 </td <td>RameLowL</td> <td>Rand noDo noLo no<!--</td--><td>Instrument: Shurcheck Sume Sume</td></br></br></br></br></br></br></br></br></br></br></br></br></br></td>	RameLowL	Rand noDo noLo 	Instrument: Shurcheck Sume Sume

Deviations from SOP:



Color Key

Δ1 "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 byrethrin 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	<u>Synonym(s)</u>	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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License: ADH 113	License: 00065C	7035H20230519MT4-1	Date Received: 06/27/2023	
Cultivar (Strain) or Sample Description: Mai Tai #4Date Completed				

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

Analysis Date/Ti Analysis Date/Ti Analyst: KF		1704 (ICP/OES)	-	thod: ICP/MS t rument: Agilent 7500	Deviations from SOP: Oce 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)	-	59.6	94.4	200	CA BALDA
Cadmium (Cd)	-	59.6	94.4	200	Nord Cranker
Lead (Pb)	-	59.6	94.4	500	THE ISLAND
Mercury (Hg)	-	59.6	94.4	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.

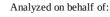
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License: ADA 05_H273	License: 00065C	7035H20230519MT4-1	Date Received: 06/27/2023
Cultivar (Strain) or Sample De	Date Completed: 06/29/2023		

MICROBIOLOGICAL PROFILE (SOP: SOP-Micro-001)

Analysis Date/Time: 06/28/20 Analyst: PW		: Hardy Diagnostics Compac ent: Thermo Incubator	tDry Deviations from SOP: None
Bacteria/Microbe	<u>Result</u> (CFU/g)	<u>Action Level</u> (CFU/g)	
Aerobic Plate Count	NT	-	
Coliforms, Total	Absent	1	March 1 - March O
Escherichia Coli (E. Coli)	Absent	100	
Mold/Yeast	NT	-	
Pseudomonas aeruginosa	NT	-	
Salmonella spp.	NT	-	Sec. S. State State
Staphylococcus aureus	NT	-	State - Cart

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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