

SUMMARY OF ANALYSIS (SAMPLE ID: SA31831)

Testing Location:	Customer ID: 2161	Order ID: OR9903	Sample Type: Primary
Arkansas	River Valley Relief Cultivation	Lot Number:	Matrix: Flower
232 S. Broadview St.	5601 Old Greenwood Rd Suite C	M00065C13133407061	Mass: 7g
Greenbrier, AR 72058	Fort Smith, AR 72903	Batch Number:	Date Collected: 06/29/2022
License: ADH 113	License: 00065C	5005	Date Received: 06/30/2022
Cultivar (Strain) or Sample Description: Mai Tai #4			Date Completed: 07/04/2022

*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.

Moisture Content (%)

13.5

Water Activity (aw)

0.533 @ 25.0°C

PASS/FAIL

PASS

Moisture content/water activity action levels are referenced from the State of Arkansas MMJ testing guidelines.

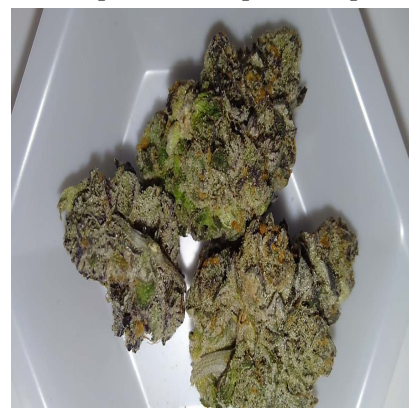
Moisture content levels less than 15% are recommended but the sample does not fail. Water activity levels must be less than 0.65aw.

Cannabinoids (Top 3)	(%)	mg/g
THCA	21.1	211
CBGA	0.797	7.97
Δ9-THC	0.665	6.65
TOTAL CBD	-	-
TOTAL THC	19.2	192
TOTAL CANNABINOIDS	23.1	231

Terpenes (Top 5)	(%)	µg/g
Geraniol	0.817	8170
β-Caryophyllene	0.254	2540
Terpinolene	0.163	1630
β-Pinene	0.119	1190
Camphene	0.114	1140
TOTAL TERPENES	1.78	17800

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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Mandatory

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Felling Analytical Services and Technology (F.A.S.T.), LLC

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

www.FASTLaboratories.com



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

Analysis Date/Time: 07/01/2022 1814

Method: HPLC/DAD

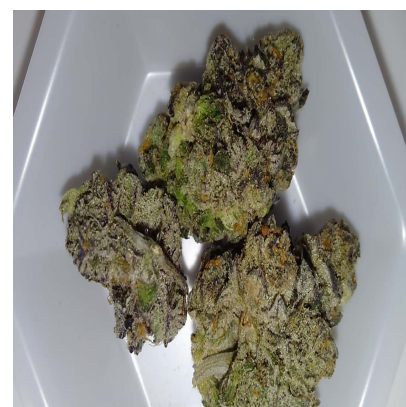
Moisture Content (%): 13.5

Analyst: PW

Instrument: Agilent 1100

Water Activity (aw): 0.5332 @ 25.03°C

Cannabinoid	Result (%)	UM (+/-%)	Result (mg/g)	LOQ (mg/g)	Result (mg/mL)	Per Serving (mg)	Per Unit (mg)
CBC	DET	-	DET	0.488	-	-	-
CBCA	0.00898	0.000718	0.0898	0.0488	-	0.0898	0.0898
CBD	DET	-	DET	0.488	-	-	-
CBDA	DET	-	DET	0.488	-	-	-
CBDV	-	-	-	0.488	-	-	-
CBDVA	0.123	0.0111	1.23	0.488	-	1.23	1.23
CBG	0.168	0.0218	1.68	0.488	-	1.68	1.68
CBGA	0.797	0.0877	7.97	0.488	-	7.97	7.97
CBL	DET	-	DET	0.488	-	-	-
CBN	DET	-	DET	0.488	-	-	-
CBNA	DET	-	DET	0.488	-	-	-
Δ9-THC	0.665	0.113	6.65	0.488	-	6.65	6.65
Δ8-THC	-	-	-	0.488	-	-	-
THCA	21.1	2.11	211	0.488	-	211	211
THCV	DET	-	DET	0.488	-	-	-
THCVA	0.176	0.00882	1.76	0.488	-	1.76	1.76
TOTAL	23.1	2.36	231		-	231	231
TOTAL CBC	0.00787	0.000630	0.0787		-	0.0787	0.0787
TOTAL CBD	-	-	-		-	-	-
TOTAL CBDV	0.107	0.00963	1.07		-	1.07	1.07
TOTAL CBG	0.868	0.0988	8.68		-	8.68	8.68
TOTAL CBN	-	-	-		-	-	-
TOTAL THC	19.2	1.97	192		-	192	192
TOTAL THCVA	0.153	0.00764	1.53		-	1.53	1.53



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

Percentage results are reported by mass.

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

* 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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www.FASTLaboratories.com

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



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Cultivar (Strain) or Sample Description: Mai Tai #4			Date Completed: 07/04/2022

TERPENOID PROFILE

Analysis Date/Time: 07/01/2022 2302

Analyst: KF

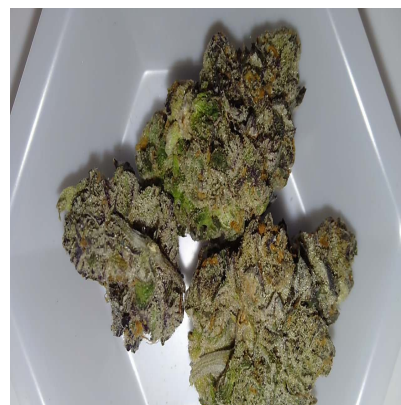
Method: GC/MS

Instrument: Agilent 7890/5975

Deviations from SOP:

None

Terpene	Result (µg/g)	Result (%)	
α-Bisabolol	-	-	
Camphene	1140	0.114	
δ-3-Carene	-	-	
β-Caryophyllene	2540	0.254	
Caryophyllene oxide	40.4	0.00404	
p-Cymene	-	-	
Eucalyptol	1010	0.101	
Geraniol	8170	0.817	
Guaiol	1090	0.109	
α-Humulene	146	0.0146	
Isopulegol	201	0.0201	
d-Limonene	-	-	
Linalool	-	-	
β-Myrcene	-	-	
cis-Nerolidol	61.8	0.00618	
trans-Nerolidol	168	0.0168	
α-Ocimene	51.7	0.00517	
β-Ocimene	-	-	
α-Pinene	162	0.0162	
β-Pinene	1190	0.119	
α-Terpinene	-	-	
γ-Terpinene	246	0.0246	
Terpinolene	1630	0.163	
TOTAL	17800	1.78	



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

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"-" Not detected above RL.

Reporting Limit (µg/g): 19.5

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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: OR9903 Lot Number: M00065C13133407061 Batch Number: 5005	Sample Type: Primary Matrix: Flower Mass: 7g Date Collected: 06/29/2022 Date Received: 06/30/2022
Cultivar (Strain) or Sample Description: Mai Tai #4			Date Completed: 07/04/2022

PESTICIDES PROFILE (SOP: SOP-PEST-001)

Analysis Date/Time: 07/02/2022 2306
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)	-	0.0195	0.156	0.5	Kresoxim-methyl (143390-89-0)	-	0.0195	0.156	0.4
Acephate (30560-19-1)	-	0.0195	0.156	0.4	Malathion (121-75-5)	-	0.0195	0.156	0.2
Acetaminophen (57960-19-7)	-	0.0195	0.156	2	Metalaxyl (57837-19-1)	-	0.0195	0.156	0.2
Acetamiprid (135410-20-7)	-	0.0195	0.156	0.2	Methiocarb (2032-65-7)	-	0.0195	0.156	0.2
Aldicarb (116-06-3)	-	0.0195	0.156	0.4	Methomyl (16752-77-5)	-	0.0195	0.156	0.4
Azoxystrobin (131860-33-8)	-	0.0195	0.156	0.2	Methyl parathion (298-0-0)	-	0.0195	0.156	0.2
Bifenazate (149877-41-8)	-	0.0195	0.156	0.2	MGK 264 (113-48-4)	-	0.0195	0.156	0.2
Bifenthrin (82657-04-3)	-	0.0195	0.156	0.2	Myclobutanil (88671-89-0)	-	0.0195	0.156	0.2
Boscalid (188425-85-6)	-	0.0195	0.156	0.4	Naled (300-76-5)	-	0.0195	0.156	0.5
Carbaryl (63-25-2)	-	0.0195	0.156	0.2	Oxamyl (23135-22-0)	-	0.0195	0.156	1
Carbofuran (1563-66-2)	-	0.0195	0.156	0.2	Paclobutrazol (76738-62-0)	-	0.0195	0.156	0.4
Chlorantraniliprole (800008-45-7)	-	0.0195	0.156	0.2	Permethrins (52645-53-1)	-	0.0195	0.156	0.2
Chlorfenapyr (122453-73-0)	-	0.0195	0.156	1	Phosmet (732-11-6)	-	0.0195	0.156	0.2
Chlorpyrifos (2921-88-2)	-	0.0195	0.156	0.2	Piperonyl butoxide (51-03-6)	-	0.0195	0.156	2
Clofentezine (74115-24-5)	-	0.0195	0.156	0.2	Prallethrin (2331-36-9)	-	0.0195	0.156	0.2
Cyfluthrin (68359-37-5)	-	0.0195	0.156	1	Propiconazole (60207-90-1)	-	0.0195	0.156	0.4
Cypermethrin (52315-07-8)	-	0.0195	0.156	1	Propoxur (114-26-1)	-	0.0195	0.156	0.2
Daminozide (1596-84-5)	-	0.0195	0.156	1	Pyrethrins (8003-34-7)	-	0.0195	0.156	1
DDVP (62-73-7)	-	0.0195	0.156	0.1	Pyridaben (96489-71-3)	-	0.0195	0.156	0.2
Diazinon (333-41-5)	-	0.0195	0.156	0.2	Spinosad (168316-95-8)	-	0.0195	0.156	0.2
Dimethoate (60-51-5)	-	0.0195	0.156	0.2	Spiromesifen (283594-90-1)	-	0.0195	0.156	0.2
Ethoprophos (13194-48-4)	-	0.0195	0.156	0.2	Spirotetramat (203313-25-1)	-	0.0195	0.156	0.2
Etofenprox (80844-07-1)	-	0.0195	0.156	0.4	Spiroxamine (118134-30-8)	-	0.0195	0.156	0.4
Etoazole (153233-91-1)	-	0.0195	0.156	0.2	Tebuconazole (80443-41-0)	-	0.0195	0.156	0.4
Fenoxycarb (72490-01-8)	-	0.0195	0.156	0.2	Thiacloprid (111988-49-9)	-	0.0195	0.156	0.2
(E)-Fenpyroximate (134098-61-6)	-	0.0195	0.156	0.4	Thiamethoxam (153719-23-4)	-	0.0195	0.156	0.2
Fipronil (120068-37-3)	-	0.0195	0.156	0.4	Trifloxystrobin (141517-21-7)	-	0.0195	0.156	0.2
Flonicamid (158062-67-0)	-	0.0195	0.156	1					
Fludioxinil (131341-86-1)	-	0.0195	0.156	0.4					
Hexythiazox (78587-05-0)	-	0.0195	0.156	1					
Imazalil (35554-44-0)	-	0.0195	0.156	0.2					
Imidacloprid (138261-41-3)	-	0.0195	0.156	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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License: ADH 113	License: 00065C	5005	Date Received: 06/30/2022
Cultivar (Strain) or Sample Description: Mai Tai #4			Date Completed: 07/04/2022

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

Analysis Date/Time: 07/02/2022 1229 (ICP/OES)	Method: ICP/OES	Deviations from SOP:
Analysis Date/Time: - (DMA)	Instrument: Agilent 720-ES	None
Analyst: KF		

Heavy Metal	Result (µg/kg)	LOD (µg/kg)	LOQ (µg/kg)	Action Level (µg/kg)
Arsenic (As)	-	48.3	91.7	200
Cadmium (Cd)	-	48.3	91.7	200
Lead (Pb)	-	48.3	91.7	500
Mercury (Hg)	-	48.3	91.7	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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License: ADA 05_H273	License: 00065C	5005	Date Received: 06/30/2022
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MICROBIOLOGICAL PROFILE (SOP: SOP-Micro-001)

Analysis Date/Time: 07/01/2022 1125 **Method:** Hardy Diagnostics CompactDry **Deviations from SOP:**
Analyst: PW **Instrument:** Thermo Incubator 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	-
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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