

SUMMARY OF ANALYSIS (SAMPLE ID: SA31888)

Testing Location:	Customer ID: 2168	Order ID: OR9915	Sample Type: Primary
Arkansas	River Valley Relief MIPS	Lot Number:	Matrix: Concentrate
232 S. Broadview St.	5601 Old Greenwood Rd Suite C	M00065C13246975374	Mass: 4g
Greenbrier, AR 72058	Fort Smith, AR 72903	Batch Number:	Date Collected: 07/07/2022
License: ADH 113	License: 00065C	Not Entered	Date Received: 07/08/2022
Cultivar (Strain) or Sample Description: Orange 43 Live Budder			Date Completed: 07/10/2022

*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 (%)

Not Tested

Water Activity (aw)

Not Tested

PASS/FAIL

N/A

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	72.2	722
CBGA	2.42	24.2
CBL	0.473	4.73
TOTAL CBD	-	-
TOTAL THC	63.3	633
TOTAL CANNABINOIDS	75.1	751

Terpenes (Top 5)	(%)	µg/g
Terpinolene	3.86	38600
β-Myrcene	2.73	27300
β-Ocimene	1.52	15200
d-Limonene	1.16	11600
β-Caryophyllene	0.473	4730
TOTAL TERPENES	11.0	110000

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

www.FASTLaboratories.com



CERTIFICATE OF ANALYSIS (SAMPLE ID: SA31888)

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Cultivar (Strain) or Sample Description: Orange 43 Live Budder **Date Completed:** 07/10/2022

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

Analysis Date/Time: 7/8/2022 1815

Method: HPLC/DAD

Moisture Content (%): -

Analyst: PW

Instrument: Agilent 1100

Water Activity (aw): -

Cannabinoid	Result (%)	UM (+/-%)	Result (mg/g)	LOQ (mg/g)	Result (mg/mL)	Per Serving (mg)	Per Unit (mg)
CBC	-	-	-	4.47	-	-	-
CBCA	DET	-	DET	4.47	-	-	-
CBD	DET	-	DET	4.47	-	-	-
CBDA	DET	-	DET	4.47	-	-	-
CBDV	-	-	-	4.47	-	-	-
CBDVA	-	-	-	4.47	-	-	-
CBG	DET	-	DET	4.47	-	-	-
CBGA	2.42	0.266	24.2	4.47	-	24.2	24.2
CBL	0.473	0.0663	4.73	4.47	-	4.73	4.73
CBN	-	-	-	4.47	-	-	-
CBNA	-	-	-	4.47	-	-	-
Δ9-THC	DET	-	DET	4.47	-	-	-
Δ8-THC	DET	-	DET	4.47	-	-	-
THCA	72.2	7.22	722	4.47	-	722	722
THCV	-	-	-	4.47	-	-	-
THCVA	DET	-	DET	4.47	-	-	-
TOTAL	75.1	7.55	751		-	751	751
TOTAL CBC	-	-	-		-	-	-
TOTAL CBD	-	-	-		-	-	-
TOTAL CBDV	-	-	-		-	-	-
TOTAL CBG	2.12	0.234	21.2		-	21.2	21.2
TOTAL CBN	-	-	-		-	-	-
TOTAL THC	63.3	6.33	633		-	633	633
TOTAL THCVA	-	-	-		-	-	-



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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Cultivar (Strain) or Sample Description: Orange 43 Live Budder

Date Completed: 07/10/2022

TERPENOID PROFILE

Analysis Date/Time: 07/09/2022 1632

Method: GC/MS

Deviations from SOP:

Analyst: KF

Instrument: Agilent 7890/5975

None

Terpene	Result (µg/g)	Result (%)	
α-Bisabolol	604	0.0604	
Camphene	-	-	
δ-3-Carene	1010	0.101	
β-Caryophyllene	4730	0.473	
Caryophyllene oxide	-	-	
p-Cymene	-	-	
Eucalyptol	-	-	
Geraniol	-	-	
Guaiol	142	0.0142	
α-Humulene	1070	0.107	
Isopulegol	-	-	
d-Limonene	11600	1.16	
Linalool	1110	0.111	
β-Myrcene	27300	2.73	
cis-Nerolidol	-	-	
trans-Nerolidol	295	0.0295	
α-Ocimene	430	0.0430	
β-Ocimene	15200	1.52	
α-Pinene	2270	0.227	
β-Pinene	4630	0.463	
α-Terpinene	976	0.0976	
γ-Terpinene	192	0.0192	
Terpinolene	38600	3.86	
TOTAL	110000	11.0	



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

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"-" Not detected above RL.

Reporting Limit (µg/g): 19.2

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Cultivar (Strain) or Sample Description: Orange 43 Live Budder			Date Completed: 07/10/2022

RESIDUAL SOLVENT PROFILE (SOP: SOP-RS-001)

Analysis Date/Time: 7/8/2022 2209	Method: HS/GC/MS	Deviations from SOP:
Analyst: KF	Instrument: Agilent 7890/5975	None

<u>Solvent</u>	<u>Result</u> (µg/g)	<u>LOD</u> (µg/g)	<u>LOQ</u> (µg/g)	<u>Action Level</u> (µg/g)	<u>Solvent</u>	<u>Result</u> (µg/g)	<u>LOD</u> (µg/g)	<u>LOQ</u> (µg/g)	<u>Action Level</u> (µg/g)
Acetone (67-64-1)	-	38.6	77.2	5000	n-Heptane (142-82-5)	-	38.6	77.2	5000
Acetonitrile (75-5-8)	-	38.6	77.2	410	n-Hexane (110-54-3)	-	13.5	27.0	290
Benzene (71-43-2)	-	0.386	0.772	2	Isobutane (75-28-5)	-	38.6	77.2	5000
n-Butane (106-97-2)	551	38.6	77.2	5000	Isopropanol (67-63-0)	-	38.6	77.2	5000
1-Butanol (71-36-3)	-	38.6	77.2	5000	Isopropyl acetate (108-21-4)	-	38.6	77.2	5000
2-Butanol (78-92-2)	-	38.6	77.2	5000	Isopropyl benzene (98-82-8)	-	3.86	7.72	70
2-Butanone (78-93-3)	-	38.6	77.2	5000	Methanol (67-56-1)	-	38.6	77.2	3000
Cyclohexane (110-82-7)	-	38.6	77.2	3880	2-Methylbutane (78-78-4)	-	38.6	77.2	5000
1,2-Dimethoxyethane (110-71-4)	-	3.86	7.72	100	Methylene chloride (75-9-2)	-	38.6	77.2	600
N,N-Dimethylacetamide (127-19-5)	-	38.6	77.2	1090	2-Methylpentane (107-83-5)	-	13.5	27.0	290
2,2-Dimethylbutane (75-83-2)	-	13.5	27.0	290	3-Methylpentane (96-10-0)	-	13.5	27.0	290
2,3-Dimethylbutane (79-29-8)	-	13.5	27.0	290	n-Pentane (109-66-0)	-	38.6	77.2	5000
N,N-Dimethylformamide (68-12-2)	-	38.6	77.2	880	1-Pentanol (71-41-0)	-	38.6	77.2	5000
Dimethylsulfoxide (67-68-5)	-	38.6	77.2	5000	n-Propane (74-98-6)	-	38.6	77.2	5000
1,4-Dioxane (123-91-1)	-	38.6	77.2	380	1-Propanol (71-23-8)	-	38.6	77.2	5000
Ethanol (64-17-5)	-	38.6	77.2	5000	Pyridine (110-86-1)	-	13.5	27.0	200
2-Ethoxyethanol (110-80-5)	-	13.5	27.0	160	Tetrahydrofuran (109-99-9)	-	38.6	77.2	720
Ethyl ether (60-29-7)	-	38.6	77.2	5000	Tetramethylene sulfone (126-33-0)	-	13.5	27.0	160
Ethyl acetate (141-78-6)	-	38.6	77.2	5000	Toluene (108-88-3)	-	38.6	77.2	890
Ethyl benzene (100-41-4)	-	38.6	77.2	2170	o-Xylene (95-47-6)	-	38.6	77.2	2170
Ethylene glycol (107-21-1)	-	38.6	77.2	620	m,p-Xylene (108-38-3 or 106-42-3)	-	38.6	77.2	2170
Ethylene oxide (75-21-8)	-	3.86	7.72	50	Xylenes* (1330-20-7)	-	43.3	86.7	2170



Color Key

RESULT < AL

RESULT > AL

"DET" detected less than LOQ

"-" not detected above LOD

"*" - o,m,p-Xylene and Ethylbenzene

Action levels are referenced from the State of Arkansas MMJ testing guidelines.

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<u>Solvent</u>	<u>Synonym(s)</u>	<u>Solvent</u>	<u>Synonym(s)</u>
Acetonitrile	Methyl Cyanide, ACN	Ethylene glycol	1,2-Ethanediol
1-Butanol	n-Butanol, Butyl Alcohol	Isobutane	2-Methylpropane
2-Butanol	sec-Butyl alcohol	Isopropanol	2-Propanol, IPA
2-Butanone	Methyl ethyl ketone, MEK	Isopropyl Acetate	Acetic acid isopropyl ester
1,2-Dimethoxyethane	Monoglyme	Methanol	Methyl alcohol
2,3-Dimethylbutane	Neohexane	2-Methylbutane	Isopentane
2,3-Dimethylbutane	Diisopropyl	Methylene chloride	Dichloromethane
N,N-Dimethylformamide	DMF	2-Methylpentane	Isohexane
Dimethylsulfoxide	DMSO	1-Pentanol	n-Amyl alcohol
2-Ethoxyethanol	Cellosolve, Ethyl glycol	1-Propanol	Propyl alcohol
Ethyl ether	Diethyl ether, Ether	Tetrahydrofuran	THF
Ethyl acetate	EtOAc	Tetramethylene sulfone	Sulfolane
Ethyl benzene	Phenylethane	Xylene	Dimethylbenzene

Abbreviations: HS-Headspace, GC-Gas Chromatography, MS-Mass Spectrometry, RL-Reporting Limit, AL-Action Level, CAS-Chemical Abstract Services, LOD - Limit of Detection, LOQ - Limit of Quantification

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Testing Location: Arkansas 232 S. Broadview St. Greenbrier, AR 72058 License: ADH 113	Customer ID: 2168 River Valley Relief MIPS 5601 Old Greenwood Rd Suite C Fort Smith, AR 72903 License: 00065C	Order ID: OR9915 Lot Number: M00065C13246975374 Batch Number: Not Entered	Sample Type: Primary Matrix: Concentrate Mass: 4g Date Collected: 07/07/2022 Date Received: 07/08/2022
----------------------------------------------------------------------------------------------------------	----------------------------------------------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------------------------------------------------

Cultivar (Strain) or Sample Description: Orange 43 Live Budder

Date Completed: 07/10/2022

PESTICIDES PROFILE (SOP: SOP-PEST-001)

Analysis Date/Time: 7/8/2022 1906

Method: LC/MS/MS

Deviations from SOP:

Analyst: KF

Instrument: Shimadzu LC-8050

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)	-	0.0192	0.153	0.5	Kresoxim-methyl (143390-89-0)	-	0.0192	0.153	0.4
Acephate (30560-19-1)	-	0.0192	0.153	0.4	Malathion (121-75-5)	-	0.0192	0.153	0.2
Acetaminophen (57960-19-7)	-	0.0192	0.153	2	Metalaxyl (57837-19-1)	-	0.0192	0.153	0.2
Acetamiprid (135410-20-7)	-	0.0192	0.153	0.2	Methiocarb (2032-65-7)	-	0.0192	0.153	0.2
Aldicarb (116-06-3)	-	0.0192	0.153	0.4	Methomyl (16752-77-5)	-	0.0192	0.153	0.4
Azoxystrobin (131860-33-8)	-	0.0192	0.153	0.2	Methyl parathion (298-0-0)	-	0.0192	0.153	0.2
Bifenazate (149877-41-8)	-	0.0192	0.153	0.2	MGK 264 (113-48-4)	-	0.0192	0.153	0.2
Bifenthrin (82657-04-3)	-	0.0192	0.153	0.2	Myclobutanil (88671-89-0)	-	0.0192	0.153	0.2
Boscalid (188425-85-6)	-	0.0192	0.153	0.4	Naled (300-76-5)	-	0.0192	0.153	0.5
Carbaryl (63-25-2)	-	0.0192	0.153	0.2	Oxamyl (23135-22-0)	-	0.0192	0.153	1
Carbofuran (1563-66-2)	-	0.0192	0.153	0.2	Paclobutrazol (76738-62-0)	-	0.0192	0.153	0.4
Chlorantraniliprole (800008-45-7)	-	0.0192	0.153	0.2	Permethrins (52645-53-1)	-	0.0192	0.153	0.2
Chlorfenapyr (122453-73-0)	-	0.0192	0.153	1	Phosmet (732-11-6)	-	0.0192	0.153	0.2
Chlorpyrifos (2921-88-2)	-	0.0192	0.153	0.2	Piperonyl butoxide (51-03-6)	-	0.0192	0.153	2
Clofentezine (74115-24-5)	-	0.0192	0.153	0.2	Prallethrin (2331-36-9)	-	0.0192	0.153	0.2
Cyfluthrin (68359-37-5)	-	0.0192	0.153	1	Propiconazole (60207-90-1)	-	0.0192	0.153	0.4
Cypermethrin (52315-07-8)	-	0.0192	0.153	1	Propoxur (114-26-1)	-	0.0192	0.153	0.2
Daminozide (1596-84-5)	-	0.0192	0.153	1	Pyrethrins (8003-34-7)	-	0.0192	0.153	1
DDVP (62-73-7)	-	0.0192	0.153	0.1	Pyridaben (96489-71-3)	-	0.0192	0.153	0.2
Diazinon (333-41-5)	-	0.0192	0.153	0.2	Spinosad (168316-95-8)	-	0.0192	0.153	0.2
Dimethoate (60-51-5)	-	0.0192	0.153	0.2	Spiromesifen (283594-90-1)	-	0.0192	0.153	0.2
Ethoprophos (13194-48-4)	-	0.0192	0.153	0.2	Spirotetramat (203313-25-1)	-	0.0192	0.153	0.2
Etofenprox (80844-07-1)	-	0.0192	0.153	0.4	Spiroxamine (118134-30-8)	-	0.0192	0.153	0.4
Etoazole (153233-91-1)	-	0.0192	0.153	0.2	Tebuconazole (80443-41-0)	-	0.0192	0.153	0.4
Fenoxycarb (72490-01-8)	-	0.0192	0.153	0.2	Thiacloprid (111988-49-9)	-	0.0192	0.153	0.2
(E)-Fenpyroximate (134098-61-6)	-	0.0192	0.153	0.4	Thiamethoxam (153719-23-4)	-	0.0192	0.153	0.2
Fipronil (120068-37-3)	-	0.0192	0.153	0.4	Trifloxystrobin (141517-21-7)	-	0.0192	0.153	0.2
Flonicamid (158062-67-0)	-	0.0192	0.153	1					
Fludioxinil (131341-86-1)	-	0.0192	0.153	0.4					
Hexythiazox (78587-05-0)	-	0.0192	0.153	1					
Imazalil (35554-44-0)	-	0.0192	0.153	0.2					
Imidacloprid (138261-41-3)	-	0.0192	0.153	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.

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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-200.7)

Analysis Date/Time: 07/09/2022 0952 (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)	-	48.6	92.3	200
Cadmium (Cd)	-	48.6	92.3	200
Lead (Pb)	-	48.6	92.3	500
Mercury (Hg)	-	48.6	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
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Action levels for heavy metals are referenced from the State of Arkansas MMJ testing guidelines.

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

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Kyle W. Felling
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Laboratory Director



CERTIFICATE OF ANALYSIS (SAMPLE ID: SA31888)

Testing Location:	Customer ID: 2168	Sample ID: SA31888	Sample Type: Primary
Arkansas	River Valley Relief MIPS	Lot Number:	Matrix: Concentrate
232 S. Broadview St.	5601 Old Greenwood Rd Suite C	M00065C13246975374	Mass: 4g
Greenbrier, AR 72058	Fort Smith, AR 72903	Batch Number:	Date Collected: 07/07/2022
License: ADA 05_H273	License: 00065C	Not Entered	Date Received: 07/08/2022
Cultivar (Strain) or Sample Description: Orange 43 Live Budder			Date Completed: 07/10/2022

MICROBIOLOGICAL PROFILE (SOP: SOP-Micro-001)

Analysis Date/Time: 7/9/2022 0933	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	Present	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

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.

Disclaimer: This information is provided as a service and makes no claims of efficacy and/or safety of this product. Results are applicable only for the sample(s) analyzed and for the specific analysis conducted. This report is for informational purposes only and should not be used to diagnose, treat, or prevent any medical-related symptoms. The statements and results herein have not been approved and/or endorsed by the FDA.

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