

SUMMARY OF ANALYSIS (SAMPLE ID: SA39654)

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: OR11338 Lot Number: M00065C13246881172 Production Run: E20241212SDLB01	Sample Type: Primary Matrix: Concentrate Mass: 4ea Date Collected: 12/12/2024 Date Received: 12/12/2024
Cultivar (Strain) or Sample Description: Sourdough Hybrid Live Badder 1g Jar			Date Completed: 12/14/2024

*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

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	87.3	873
CBGA	2.11	21.1
Δ9-THC	1.07	10.7
TOTAL CBD	0.000	0.000
TOTAL THC	77.6	776
TOTAL CANNABINOIDS	91.5	915

Terpenes (Top 5)	(%)	µg/g
β-Caryophyllene	2.25	22500
α-Humulene	1.30	13000
d-Limonene	1.18	11800
β-Myrcene	0.966	9660
Linalool	0.420	4200
TOTAL TERPENES	7.08	70800

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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REPORT OF LABORATORY ANALYSIS

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

www.FASTLaboratories.com



CERTIFICATE OF ANALYSIS (SAMPLE ID: SA39654)

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Cultivar (Strain) or Sample Description: Sourdough Hybrid Live Badder 1g Jar **Date Completed:** 12/14/2024

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

Analysis Date/Time: 12/13/2024 1309 **Method:** HPLC/DAD **Moisture Content (%):** -
Analyst: PW **Instrument:** Agilent 1100 **Water Activity (aw):** -

<u>Cannabinoid</u>	<u>Result (%)</u>	<u>Result (mg/g)</u>	<u>LOD (mg/g)</u>	<u>LOQ (mg/g)</u>	<u>Result (mg/mL)</u>	<u>Per Serving (mg)</u>	<u>Per Unit (mg)</u>
CBC	ND	ND	0.0901	0.210	-	0.000	0.000
CBCA	0.792	7.92	0.280	0.653	-	7.92	7.92
CBD	ND	ND	0.635	1.48	-	0.000	0.000
CBDA	DET	DET	0.234	0.546	-	0.000	0.000
CBDV	ND	ND	0.102	0.238	-	0.000	0.000
CBDVA	ND	ND	0.272	0.635	-	0.000	0.000
CBG	DET	DET	0.413	0.963	-	0.000	0.000
CBGA	2.11	21.1	0.585	0.690	-	21.1	21.1
CBL	ND	ND	0.477	1.11	-	0.000	0.000
CBN	ND	ND	0.219	0.511	-	0.000	0.000
CBNA	ND	ND	0.236	0.551	-	0.000	0.000
CBT	ND	ND	0.343	0.799	-	0.000	0.000
Δ9-THC	1.07	10.7	0.262	0.612	-	10.7	10.7
Δ8-THC	ND	ND	0.409	0.955	-	0.000	0.000
THCA	87.3	873	0.142	0.333	-	873	873
THCV	ND	ND	0.341	0.796	-	0.000	0.000
THCVA	0.258	2.58	0.109	0.254	-	2.58	2.58
TOTAL	91.5	915			-	915	915
TOTAL CBC	0.695	6.95			-	6.95	6.95
TOTAL CBD	0.000	0.000			-	0.000	0.000
TOTAL CBDV	0.000	0.000			-	0.000	0.000
TOTAL CBG	1.85	18.5			-	18.5	18.5
TOTAL CBN	0.000	0.000			-	0.000	0.000
TOTAL THC	77.6	776			-	776	776
TOTAL THCV	0.224	2.24			-	2.24	2.24



SERVING MASS (g): 1.00
SERVINGS/UNIT: 1

"-" Not reported for this sample.

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 THCv = (THCVA x 0.867) + THCv

Percentage results are reported by mass.

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

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, ND - Not Detected (less than LOD)

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Cultivar (Strain) or Sample Description: Sourdough Hybrid Live Badder 1g Jar **Date Completed:** 12/14/2024

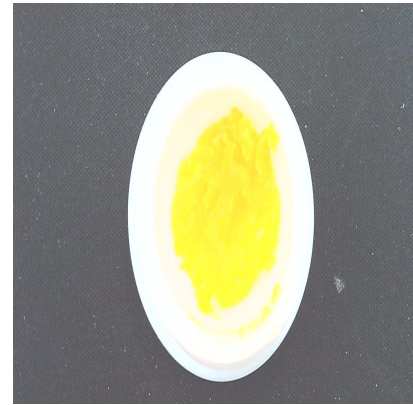
TERPENOID PROFILE

Analysis Date/Time: 12/13/2024 1510
Analyst: KF

Method: GC/MS
Instrument: Agilent 7890/5975

Deviations from SOP:
None

<u>Terpene</u>	<u>Result (µg/g)</u>	<u>Result (%)</u>	
α-Bisabolol	1270	0.127	
Camphene	385	0.0385	
δ-3-Carene	ND	-	
β-Caryophyllene	22500	2.25	█
Caryophyllene oxide	259	0.0259	
p-Cymene	ND	-	
Eucalyptol	<LOQ	-	
Geraniol	<LOQ	-	
Guaiol	ND	-	
α-Humulene	13000	1.30	█
Isopulegol	60.2	0.00602	
d-Limonene	11800	1.18	█
Linalool	4200	0.420	█
β-Myrcene	9660	0.966	█
cis-Nerolidol	ND	-	
trans-Nerolidol	600	0.0600	
α-Ocimene	220	0.0220	
β-Ocimene	2180	0.218	█
α-Pinene	1900	0.190	█
β-Pinene	2500	0.250	█
α-Terpinene	<LOQ	-	
γ-Terpinene	<LOQ	-	
Terpinolene	293	0.0293	
TOTAL	70800	7.08	



Abbreviations: GC - Gas Chromatography, MS - Mass Spectrometry, RL - Reporting Limit
Abbreviations: ND - Not Detected, LOD - Limit of Detection, LOQ - Limit of Quantitation

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Reporting Limit (µg/g): 39.5

"-" Not detected above LOD.

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



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Cultivar (Strain) or Sample Description: Sourdough Hybrid Live Badder 1g Jar **Date Completed:** 12/14/2024

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

Analysis Date/Time: 12/12/2024 2113	Method: HS/GC/MS	Deviations from SOP:
Analyst: KF	Instrument: Agilent 7890/5975	None

Solvent	Result (µg/g)	LOD (µg/g)	LOQ (µg/g)	Action Level (µg/g)	Solvent	Result (µg/g)	LOD (µg/g)	LOQ (µg/g)	Action Level (µg/g)
Acetone (67-64-1)	-	30.4	60.9	5000	n-Heptane (142-82-5)	-	30.4	60.9	5000
Acetonitrile (75-5-8)	-	30.4	60.9	410	n-Hexane (110-54-3)	-	10.7	21.3	290
Benzene (71-43-2)	-	0.304	0.609	2	Isobutane (75-28-5)	-	30.4	60.9	5000
n-Butane (106-97-2)	-	30.4	60.9	5000	Isopropanol (67-63-0)	-	30.4	60.9	5000
1-Butanol (71-36-3)	-	30.4	60.9	5000	Isopropyl acetate (108-21-4)	-	30.4	60.9	5000
2-Butanol (78-92-2)	-	30.4	60.9	5000	Isopropyl benzene (98-82-8)	-	3.04	6.09	70
2-Butanone (78-93-3)	-	30.4	60.9	5000	Methanol (67-56-1)	-	30.4	60.9	3000
Cyclohexane (110-82-7)	-	30.4	60.9	3880	2-Methylbutane (78-78-4)	-	30.4	60.9	5000
1,2-Dimethoxyethane (110-71-4)	-	3.04	6.09	100	Methylene chloride (75-9-2)	-	30.4	60.9	600
N,N-Dimethylacetamide (127-19-5)	-	30.4	60.9	1090	2-Methylpentane (107-83-5)	-	10.7	21.3	290
2,2-Dimethylbutane (75-83-2)	-	10.7	21.3	290	3-Methylpentane (96-10-0)	-	10.7	21.3	290
2,3-Dimethylbutane (79-29-8)	-	10.7	21.3	290	n-Pentane (109-66-0)	-	30.4	60.9	5000
N,N-Dimethylformamide (68-12-2)	-	30.4	60.9	880	1-Pentanol (71-41-0)	-	30.4	60.9	5000
Dimethylsulfoxide (67-68-5)	-	30.4	60.9	5000	n-Propane (74-98-6)	-	30.4	60.9	5000
1,4-Dioxane (123-91-1)	-	30.4	60.9	380	1-Propanol (71-23-8)	-	30.4	60.9	5000
Ethanol (64-17-5)	-	30.4	60.9	5000	Pyridine (110-86-1)	-	10.7	21.3	200
2-Ethoxyethanol (110-80-5)	-	10.7	21.3	160	Tetrahydrofuran (109-99-9)	-	30.4	60.9	720
Ethyl ether (60-29-7)	-	30.4	60.9	5000	Tetramethylene sulfone (126-33-0)	-	10.7	21.3	160
Ethyl acetate (141-78-6)	-	30.4	60.9	5000	Toluene (108-88-3)	-	30.4	60.9	890
Ethyl benzene (100-41-4)	-	30.4	60.9	2170	o-Xylene (95-47-6)	-	30.4	60.9	2170
Ethylene glycol (107-21-1)	-	30.4	60.9	620	m,p-Xylene (108-38-3 or 106-42-3)	-	30.4	60.9	2170
Ethylene oxide (75-21-8)	-	3.04	6.09	50	Xylenes* (1330-20-7)	-	43.3	86.7	2170



Color Key

RESULT < AL (Green bar)
RESULT > AL (Red bar)

"-" not detected above 1/2 Action Level

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

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.

Solvent	Synonym(s)	Solvent	Synonym(s)
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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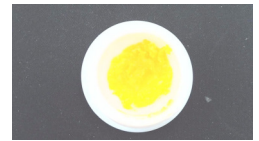
PESTICIDES PROFILE (SOP: SOP-PEST-001)

Analysis Date/Time: 12/13/2024 1350
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)	-	0.0391	0.313	0.5	Kresoxim-methyl (143390-89-0)	-	0.0391	0.313	0.4
Acephate (30560-19-1)	-	0.0391	0.313	0.4	Malathion (121-75-5)	-	0.0391	0.313	0.2
Acetaminocyl (57960-19-7)	-	0.0391	0.313	2	Metalaxyl (57837-19-1)	-	0.0391	0.313	0.2
Acetamiprid (135410-20-7)	-	0.0391	0.313	0.2	Methiocarb (2032-65-7)	-	0.0391	0.313	0.2
Aldicarb (116-06-3)	-	0.0391	0.313	0.4	Methomyl (16752-77-5)	-	0.0391	0.313	0.4
Azoxystrobin (131860-33-8)	-	0.0391	0.313	0.2	Methyl parathion (298-0-0)	-	0.0391	0.313	0.2
Bifenazate (149877-41-8)	-	0.0391	0.313	0.2	MGK 264 (113-48-4)	-	0.0391	0.313	0.2
Bifenthrin (82657-04-3)	-	0.0391	0.313	0.2	Myclobutanil (88671-89-0)	-	0.0391	0.313	0.2
Boscalid (188425-85-6)	-	0.0391	0.313	0.4	Naled (300-76-5)	-	0.0391	0.313	0.5
Carbaryl (63-25-2)	-	0.0391	0.313	0.2	Oxamyl (23135-22-0)	-	0.0391	0.313	1
Carbofuran (1563-66-2)	-	0.0391	0.313	0.2	Pacllobutrazol (76738-62-0)	-	0.0391	0.313	0.4
Chlorantraniliprole (800008-45-7)	-	0.0391	0.313	0.2	Permethrins (52645-53-1)	-	0.0391	0.313	0.2
Chlorfenapyr (122453-73-0)	-	0.0391	0.313	1	Phosmet (732-11-6)	-	0.0391	0.313	0.2
Chlorpyrifos (2921-88-2)	-	0.0391	0.313	0.2	Piperonyl butoxide (51-03-6)	-	0.0391	0.313	2
Clofentezine (74115-24-5)	-	0.0391	0.313	0.2	Prallethrins (2331-36-9)	-	0.0391	0.313	0.2
Cyfluthrin (68359-37-5)	-	0.0391	0.313	1	Propiconazole (60207-90-1)	-	0.0391	0.313	0.4
Cypermethrin (52315-07-8)	-	0.0391	0.313	1	Propoxur (114-26-1)	-	0.0391	0.313	0.2
Daminozide (1596-84-5)	-	0.0391	0.313	1	Pyrethrins (8003-34-7)	-	0.0391	0.313	1
DDVP (62-73-7)	-	0.0391	0.313	0.1	Pyridaben (96489-71-3)	-	0.0391	0.313	0.2
Diazinon (333-41-5)	-	0.0391	0.313	0.2	Spinosad (168316-95-8)	-	0.0391	0.313	0.2
Dimethoate (60-51-5)	-	0.0391	0.313	0.2	Spiromesifen (283594-90-1)	-	0.0391	0.313	0.2
Ethoprophos (13194-48-4)	-	0.0391	0.313	0.2	Spirotetramat (203313-25-1)	-	0.0391	0.313	0.2
Etofenprox (80844-07-1)	-	0.0391	0.313	0.4	Spiroxamine (118134-30-8)	-	0.0391	0.313	0.4
Etoxazole (153233-91-1)	-	0.0391	0.313	0.2	Tebuconazole (80443-41-0)	-	0.0391	0.313	0.4
Fenoxycarb (72490-01-8)	-	0.0391	0.313	0.2	Thiacloprid (111988-49-9)	-	0.0391	0.313	0.2
(E)-Fenpyroximate (134098-61-6)	-	0.0391	0.313	0.4	Thiamethoxam (153719-23-4)	-	0.0391	0.313	0.2
Fipronil (120068-37-3)	-	0.0391	0.313	0.4	Trifloxystrobin (141517-21-7)	-	0.0391	0.313	0.2
Fonicamid (158062-67-0)	-	0.0391	0.313	1					
Fludioxinil (131341-86-1)	-	0.0391	0.313	0.4					
Hexythiazox (78587-05-0)	-	0.0391	0.313	1					
Imazalil (35554-44-0)	-	0.0391	0.313	0.2					
Imidacloprid (138261-41-3)	-	0.0391	0.313	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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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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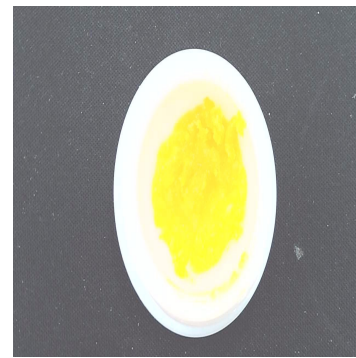
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HEAVY METAL PROFILE (SOP: SOP-ICP-200.6)

Analysis Date/Time: 12/13/2024 1330 **Method:** ICP/MS **Deviations from SOP:** None
Analyst: KF **Instrument:** Agilent 7500ce

<u>Heavy Metal</u>	<u>Result (µg/kg)</u>	<u>LOD (µg/kg)</u>	<u>LOQ (µg/kg)</u>	<u>Action Level (µg/kg)</u>
Arsenic (As)	-	56.4	89.2	200
Cadmium (Cd)	-	56.4	89.2	200
Lead (Pb)	-	56.4	89.2	500
Mercury (Hg)	-	56.4	89.2	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.

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.

REPORT OF LABORATORY ANALYSIS

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



CERTIFICATE OF ANALYSIS (SAMPLE ID: SA39654)

Testing Location: Arkansas 232 S. Broadview St. Greenbrier, AR 72058 License: ADA 05_H273	Customer ID: 2168 River Valley Relief MIPS 5601 Old Greenwood Rd Suite C Fort Smith, AR 72903 License: 00065C	Sample ID: SA39654 Lot Number: M00065C13246881172 Production Run: E20241212SDLB01	Sample Type: Primary Matrix: Concentrate Mass: 4ea Date Collected: 12/12/2024 Date Received: 12/12/2024
Cultivar (Strain) or Sample Description: Sourdough Hybrid Live Badder 1g Jar			Date Completed: 12/14/2024

MICROBIOLOGICAL PROFILE (SOP: SOP-Micro-001)

Analysis Date/Time: 12/13/2024 1140 **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	-
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

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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