

SUMMARY OF ANALYSIS (SAMPLE ID: SA41149)

Testing Location:	Customer ID: 2168	Order ID: OR11606	Sample Type: Primary
Arkansas	River Valley Relief MIPS	Lot Number:	Matrix: Concentrate
232 S. Broadview St.	5601 Old Greenwood Rd Suite C	M00065C13242278866	Mass: 3ea
Greenbrier, AR 72058	Fort Smith, AR 72903	Production Run:	Date Collected: 05/19/2025
License: ADH 113	License: 00065C	E20250519M1BH01	Date Received: 05/19/2025
Cultivar (Strain) or Sample Description: MAC 1 Solventless Bubble Hash 1.5g Jar			Date Completed: 05/21/2025

*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.

*Where provided, statements of conformity (e.g. Pass/Fail) are made in accordance with ILAC G8, Binary Statement for Simple Acceptance Rule (w=0, AL=TL).
PASS: when the result is within the acceptance interval. FAIL: when the result is outside the acceptance interval

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.

<u>Cannabinoids (Top 3)</u>	<u>(%)</u>	<u>mg/g</u>
THCA	50.2	502
Δ9-THC	3.10	31.0
CBGA	1.46	14.6
TOTAL CBD	0.000	0.000
TOTAL THC	47.1	471
TOTAL CANNABINOIDS	55.3	553
<u>Terpenes (Top 5)</u>	<u>(%)</u>	<u>ppm</u>
β-Caryophyllene	1.09	10900
d-Limonene	0.694	6940
α-Humulene	0.553	5530
α-Bisabolol	0.409	4090
α-Pinene	0.369	3690
TOTAL TERPENES	4.17	41700

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



CERTIFICATE OF ANALYSIS (SAMPLE ID: SA41149)

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Cultivar (Strain) or Sample Description: MAC 1 Solventless Bubble Hash 1.5g Jar **Date Completed:** 05/21/2025

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

Analysis Date/Time: 05/20/2025 1443

Method: HPLC/DAD

Moisture Content (%): -

Analyst: PW

Instrument: Agilent 1100

Water Activity (aw): -

Cannabinoid	Result (%)	Result (mg/g)	LOD (mg/g)	LOQ (mg/g)	Result (mg/mL)	Per Serving (mg)	Per Unit (mg)
CBC	0.0811	0.811	0.104	0.244	-	0.811	0.811
CBCA	ND	ND	0.324	0.757	-	0.000	0.000
CBD	ND	ND	0.737	1.72	-	0.000	0.000
CBDV	ND	ND	0.271	0.633	-	0.000	0.000
CBDVA	ND	ND	0.118	0.276	-	0.000	0.000
CBDVA	ND	ND	0.315	0.736	-	0.000	0.000
CBG	0.171	1.71	0.478	1.12	-	1.71	1.71
CBGA	1.46	14.6	0.678	0.800	-	14.6	14.6
CBL	ND	ND	0.552	1.29	-	0.000	0.000
CBN	ND	ND	0.254	0.593	-	0.000	0.000
CBNA	ND	ND	0.274	0.639	-	0.000	0.000
Δ9-THC	3.10	31.0	0.304	0.709	-	31.0	31.0
Δ8-THC	ND	ND	0.475	1.11	-	0.000	0.000
THCA	50.2	502	0.165	0.386	-	502	502
THCV	ND	ND	0.396	0.923	-	0.000	0.000
THCVA	0.319	3.19	0.126	0.294	-	3.19	3.19
TOTAL	55.3	553			-	553	553
TOTAL CBC	0.0811	0.811			-	0.811	0.811
TOTAL CBD	0.000	0.000			-	0.000	0.000
TOTAL CBDV	0.000	0.000			-	0.000	0.000
TOTAL CBG	1.45	14.5			-	14.5	14.5
TOTAL CBN	0.000	0.000			-	0.000	0.000
TOTAL THC	47.1	471			-	471	471
TOTAL THCV	0.277	2.77			-	2.77	2.77



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.
Dry percent = Wet percent / (1 - (Moisture Content / 100))

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

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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Kyle W. Felling, Ph.D.
Laboratory Director



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Cultivar (Strain) or Sample Description: MAC 1 Solventless Bubble Hash 1.5g Jar			Date Completed: 05/21/2025

TERPENOID PROFILE

Analysis Date/Time: 05/20/2025 1555

Method: GC/MS

Deviations from SOP:

Analyst: KF

Instrument: Agilent 7890/5975

None

<u>Terpene</u>	<u>Result (ppm)</u>	<u>Result (%)</u>	
α-Bisabolol	4090	0.409	■
Camphene	441	0.0441	■
δ-3-Carene	ND	-	
β-Caryophyllene	10900	1.09	■
Caryophyllene oxide	375	0.0375	■
p-Cymene	<LOQ	-	
Eucalyptol	<LOQ	-	
Geraniol	ND	-	
Guaiol	<LOQ	-	
α-Humulene	5530	0.553	■
Isopulegol	ND	-	
d-Limonene	6940	0.694	■
Linalool	2510	0.251	■
β-Myrcene	1620	0.162	■
cis-Nerolidol	ND	-	
trans-Nerolidol	2130	0.213	■
α-Ocimene	50.5	0.00505	■
β-Ocimene	54.8	0.00548	■
α-Pinene	3690	0.369	■
β-Pinene	3330	0.333	■
α-Terpinene	ND	-	
γ-Terpinene	<LOQ	-	
Terpinolene	90.0	0.00900	■
TOTAL	41700	4.17	



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 (ppm): 45.8

"-" Not detected above LOD.

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

Analysis Date/Time: 05/19/2025 2137	Method: HS/GC/MS	Deviations from SOP:
Analyst: KF	Instrument: Agilent 7890/5975	None

Solvent	Result (ppm)	LOD (ppm)	LOQ (ppm)	Action Level (ppm)	Solvent	Result (ppm)	LOD (ppm)	LOQ (ppm)	Action Level (ppm)
Acetone (67-64-1)	-	38.7	77.4	5000	n-Heptane (142-82-5)	-	38.7	77.4	5000
Acetonitrile (75-5-8)	-	38.7	77.4	410	n-Hexane (110-54-3)	-	13.5	27.1	290
Benzene (71-43-2)	-	0.387	0.774	2	Isobutane (75-28-5)	-	38.7	77.4	5000
n-Butane (106-97-2)	-	38.7	77.4	5000	Isopropanol (67-63-0)	-	38.7	77.4	5000
1-Butanol (71-36-3)	-	38.7	77.4	5000	Isopropyl acetate (108-21-4)	-	38.7	77.4	5000
2-Butanol (78-92-2)	-	38.7	77.4	5000	Isopropyl benzene (98-82-8)	-	3.87	7.74	70
2-Butanone (78-93-3)	-	38.7	77.4	5000	Methanol (67-56-1)	-	38.7	77.4	3000
Cyclohexane (110-82-7)	-	38.7	77.4	3880	2-Methylbutane (78-78-4)	-	38.7	77.4	5000
1,2-Dimethoxyethane (110-71-4)	-	3.87	7.74	100	Methylene chloride (75-9-2)	-	38.7	77.4	600
N,N-Dimethylacetamide (127-19-5)	-	38.7	77.4	1090	2-Methylpentane (107-83-5)	-	13.5	27.1	290
2,2-Dimethylbutane (75-83-2)	-	13.5	27.1	290	3-Methylpentane (96-10-0)	-	13.5	27.1	290
2,3-Dimethylbutane (79-29-8)	-	13.5	27.1	290	n-Pentane (109-66-0)	-	38.7	77.4	5000
N,N-Dimethylformamide (68-12-2)	-	38.7	77.4	880	1-Pentanol (71-41-0)	-	38.7	77.4	5000
Dimethylsulfoxide (67-68-5)	-	38.7	77.4	5000	n-Propane (74-98-6)	-	38.7	77.4	5000
1,4-Dioxane (123-91-1)	-	38.7	77.4	380	1-Propanol (71-23-8)	-	38.7	77.4	5000
Ethanol (64-17-5)	-	38.7	77.4	5000	Pyridine (110-86-1)	-	13.5	27.1	200
2-Ethoxyethanol (110-80-5)	-	13.5	27.1	160	Tetrahydrofuran (109-99-9)	-	38.7	77.4	720
Ethyl ether (60-29-7)	-	38.7	77.4	5000	Tetramethylene sulfone (126-33-0)	-	13.5	27.1	160
Ethyl acetate (141-78-6)	-	38.7	77.4	5000	Toluene (108-88-3)	-	38.7	77.4	890
Ethyl benzene (100-41-4)	-	38.7	77.4	2170	o-Xylene (95-47-6)	-	38.7	77.4	2170
Ethylene glycol (107-21-1)	-	38.7	77.4	620	m,p-Xylene (108-38-3 or 106-42-3)	-	38.7	77.4	2170
Ethylene oxide (75-21-8)	-	3.87	7.74	50	Xylenes* (1330-20-7)	-	43.3	86.7	2170



Color Key

RESULT < AL

RESULT > AL

"-" 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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Cultivar (Strain) or Sample Description: MAC 1 Solventless Bubble Hash 1.5g Jar **Date Completed:** 05/21/2025

PESTICIDES PROFILE (SOP: SOP-PEST-001)

Analysis Date/Time: 05/20/2025 1500

Method: LC/MS/MS

Deviations from SOP:

Analyst: KF

Instrument: Shimadzu LC-8050

None

Pesticide	Result (ppm)	LOD (ppm)	LOQ (ppm)	Action Level (ppm)	Pesticide	Result (ppm)	LOD (ppm)	LOQ (ppm)	Action Level (ppm)
Abamectin (71751-41-2)	-	0.0457	0.365	0.5	Kresoxim-methyl (143390-89-0)	-	0.0457	0.365	0.4
Acephate (30560-19-1)	-	0.0457	0.365	0.4	Malathion (121-75-5)	-	0.0457	0.365	0.2
Acetaminophen (57960-19-7)	-	0.0457	0.365	2	Metalaxyl (57837-19-1)	-	0.0457	0.365	0.2
Acetamiprid (135410-20-7)	-	0.0457	0.365	0.2	Methiocarb (2032-65-7)	-	0.0457	0.365	0.2
Aldicarb (116-06-3)	-	0.0457	0.365	0.4	Methomyl (16752-77-5)	-	0.0457	0.365	0.4
Azoxystrobin (131860-33-8)	-	0.0457	0.365	0.2	Methyl parathion (298-0-0)	-	0.0457	0.365	0.2
Bifenazate (149877-41-8)	-	0.0457	0.365	0.2	MGK 264 (113-48-4)	-	0.0457	0.365	0.2
Bifenthrin (82657-04-3)	-	0.0457	0.365	0.2	Myclobutanil (88671-89-0)	-	0.0457	0.365	0.2
Boscalid (188425-85-6)	-	0.0457	0.365	0.4	Naled (300-76-5)	-	0.0457	0.365	0.5
Carbaryl (63-25-2)	-	0.0457	0.365	0.2	Oxamyl (23135-22-0)	-	0.0457	0.365	1
Carbofuran (1563-66-2)	-	0.0457	0.365	0.2	Paclobutrazol (76738-62-0)	-	0.0457	0.365	0.4
Chlorantraniliprole (800008-45-7)	-	0.0457	0.365	0.2	Permethrins (52645-53-1)	-	0.0457	0.365	0.2
Chlorfenapyr (122453-73-0)	-	0.0457	0.365	1	Phosmet (732-11-6)	-	0.0457	0.365	0.2
Chlorpyrifos (2921-88-2)	-	0.0457	0.365	0.2	Piperonyl butoxide (51-03-6)	-	0.0457	0.365	2
Clofentezine (74115-24-5)	-	0.0457	0.365	0.2	Prallethrin (2331-36-9)	-	0.0457	0.365	0.2
Cyfluthrin (68359-37-5)	-	0.0457	0.365	1	Propiconazole (60207-90-1)	-	0.0457	0.365	0.4
Cypermethrin (52315-07-8)	-	0.0457	0.365	1	Propoxur (114-26-1)	-	0.0457	0.365	0.2
Daminozide (1596-84-5)	-	0.0457	0.365	1	Pyrethrins (8003-34-7)	-	0.0457	0.365	1
DDVP (62-73-7)	-	0.0457	0.365	0.1	Pyridaben (96489-71-3)	-	0.0457	0.365	0.2
Diazinon (333-41-5)	-	0.0457	0.365	0.2	Spinosad (168316-95-8)	-	0.0457	0.365	0.2
Dimethoate (60-51-5)	-	0.0457	0.365	0.2	Spiromesifen (283594-90-1)	-	0.0457	0.365	0.2
Ethoprophos (13194-48-4)	-	0.0457	0.365	0.2	Spirotetramat (203313-25-1)	-	0.0457	0.365	0.2
Etofenprox (80844-07-1)	-	0.0457	0.365	0.4	Spiroxamine (118134-30-8)	-	0.0457	0.365	0.4
Etoxazole (153233-91-1)	-	0.0457	0.365	0.2	Tebuconazole (80443-41-0)	-	0.0457	0.365	0.4
Fenoxycarb (72490-01-8)	-	0.0457	0.365	0.2	Thiacloprid (111988-49-9)	-	0.0457	0.365	0.2
(E)-Fenpyroximate (134098-61-6)	-	0.0457	0.365	0.4	Thiamethoxam (153719-23-4)	-	0.0457	0.365	0.2
Fipronil (120068-37-3)	-	0.0457	0.365	0.4	Trifloxystrobin (141517-21-7)	-	0.0457	0.365	0.2
Flonicamid (158062-67-0)	-	0.0457	0.365	1					
Fludioxinil (131341-86-1)	-	0.0457	0.365	0.4					
Hexythiazox (78587-05-0)	-	0.0457	0.365	1					
Imazalil (35554-44-0)	-	0.0457	0.365	0.2					
Imidacloprid (138261-41-3)	-	0.0457	0.365	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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Cultivar (Strain) or Sample Description: MAC 1 Solventless Bubble Hash 1.5g Jar			Date Completed: 05/21/2025

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

Analysis Date/Time: 05/20/2025 1602

Method: ICP/MS

Deviations from SOP:

Instrument: Agilent 7700x

None

Analyst: KF

<u>Heavy Metal</u>	<u>Result (ppb)</u>	<u>LOD (ppb)</u>	<u>LOQ (ppb)</u>	<u>Action Level (ppb)</u>
Arsenic (As)	ND	57.0	90.2	200
Cadmium (Cd)	ND	57.0	90.2	200
Lead (Pb)	ND	57.0	90.2	500
Mercury (Hg)	ND	57.0	90.2	100



Abbreviations: ICP - Inductively-Coupled Plasma, MS - Mass Spectrometry,
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

"ND" not detected above LOD

Reporting limit is 1/2 the action level of each analyte.

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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F.A.S.T. Personnel perform sampling following the Sampling SOP (SOP-02).

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



CERTIFICATE OF ANALYSIS (SAMPLE ID: SA41149)

Testing Location:	Customer ID: 2168	Sample ID: SA41149	Sample Type: Primary
Arkansas	River Valley Relief MIPS	Lot Number:	Matrix: Concentrate
232 S. Broadview St.	5601 Old Greenwood Rd Suite C	M00065C13242278866	Mass: 3ea
Greenbrier, AR 72058	Fort Smith, AR 72903	Production Run:	Date Collected: 05/19/2025
-	License: 00065C	E20250519M1BH01	Date Received: 05/19/2025
Cultivar (Strain) or Sample Description: MAC 1 Solventless Bubble Hash 1.5g Jar			Date Completed: 05/21/2025

MICROBIOLOGICAL PROFILE (SOP: SOP-Micro-001)

Analysis Date/Time: 05/20/2025 1317	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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