

SUMMARY OF ANALYSIS (SAMPLE ID: SA41507)

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: OR11668 Lot Number: M00065C13228883093 Production Run: P20250624GHEE02	Sample Type: Primary Matrix: Edible Mass: 1ea Date Collected: 06/26/2025 Date Received: 06/26/2025
Cultivar (Strain) or Sample Description: ARV-Infused Ghee Butter 600mg Jar			Date Completed: 06/29/2025

*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.

Cannabinoids (Top 3)	(%)	mg/g
Δ9-THC	0.654	6.54
CBG	0.0196	0.196
CBN	0.0150	0.150
TOTAL CBD	0.000	0.000
TOTAL THC	0.654	6.54
TOTAL CANNABINOIDS	0.692	6.92

Terpenes (Top 5)	(%)	ppm
trans-Nerolidol	0.00256	25.6
β-Myrcene	0.000643	6.43
d-Limonene	0.000630	6.30
β-Pinene	0.000621	6.21
α-Bisabolol		
TOTAL TERPENES	0.00445	44.5

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



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: SA41507)

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Cultivar (Strain) or Sample Description: ARV-Infused Ghee Butter 600mg Jar **Date Completed:** 06/29/2025

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

Analysis Date/Time: 06/27/2025 1406
Analyst: PW

Method: HPLC/DAD
Instrument: Agilent 1100

Moisture Content (%): -
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	0.00210	0.00489	-	0.000	0.000
CBCA	ND	ND	0.00651	0.0152	-	0.000	0.000
CBD	ND	ND	0.0148	0.0345	-	0.000	0.000
CBDa	ND	ND	0.00544	0.0127	-	0.000	0.000
CBDV	0.00321	0.0321	0.00237	0.00554	-	0.0481	2.89
CBDVA	ND	ND	0.00633	0.0148	-	0.000	0.000
CBG	0.0196	0.196	0.00960	0.0224	-	0.294	17.6
CBGA	ND	ND	0.0136	0.0161	-	0.000	0.000
CBL	ND	ND	0.0111	0.0259	-	0.000	0.000
CBN	0.0150	0.150	0.00510	0.0119	-	0.225	13.5
CBNA	ND	ND	0.00550	0.0128	-	0.000	0.000
Δ9-THC	0.654	6.54	0.00611	0.0142	-	9.81	589
Δ8-THC	ND	ND	0.00953	0.0222	-	0.000	0.000
THCA	ND	ND	0.00331	0.00774	-	0.000	0.000
THCV	ND	ND	0.00795	0.0185	-	0.000	0.000
THCVA	ND	ND	0.00254	0.00590	-	0.000	0.000
TOTAL	0.692	6.92			-	10.4	624
TOTAL CBC	0.000	0.000			-	0.000	0.000
TOTAL CBD	0.000	0.000			-	0.000	0.000
TOTAL CBDV	0.00321	0.0321			-	0.0481	2.89
TOTAL CBG	0.0196	0.196			-	0.294	17.6
TOTAL CBN	0.0150	0.150			-	0.225	13.5
TOTAL THC	0.654	6.54			-	9.81	589
TOTAL THCV	0.000	0.000			-	0.000	0.000



SERVING MASS (g): 1.50
SERVINGS/UNIT: 60

"-" 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 = (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: ARV-Infused Ghee Butter 600mg Jar **Date Completed:** 06/29/2025

TERPENOID PROFILE

Analysis Date/Time: 06/27/2025 1246
Analyst: KF

Method: GC/MS
Instrument: Agilent 7890/5975

Deviations from SOP:
None

<u>Terpene</u>	<u>Result (ppm)</u>	<u>Result (%)</u>
α-Bisabolol	ND	-
Camphene	ND	-
δ-3-Carene	ND	-
β-Caryophyllene	<LOQ	-
Caryophyllene oxide	ND	-
p-Cymene	ND	-
Eucalyptol	ND	-
Geraniol	ND	-
Guaiol	ND	-
α-Humulene	ND	-
Isopulegol	ND	-
d-Limonene	6.30	0.000630
Linalool	ND	-
β-Myrcene	6.43	0.000643
cis-Nerolidol	ND	-
trans-Nerolidol	25.6	0.00256
α-Ocimene	ND	-
β-Ocimene	ND	-
α-Pinene	ND	-
β-Pinene	6.21	0.000621
α-Terpinene	ND	-
γ-Terpinene	ND	-
Terpinolene	ND	-
TOTAL	44.5	0.00445



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): 4.60

"-" Not detected above LOD.

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Cultivar (Strain) or Sample Description: ARV-Infused Ghee Butter 600mg Jar **Date Completed:** 06/29/2025

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

Analysis Date/Time: 06/26/2025 2214 **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)	-	22.4	44.7	5000	n-Heptane (142-82-5)	-	22.4	44.7	5000
Acetonitrile (75-5-8)	-	22.4	44.7	410	n-Hexane (110-54-3)	-	7.83	15.7	290
Benzene (71-43-2)	-	0.224	0.447	2	Isobutane (75-28-5)	-	22.4	44.7	5000
n-Butane (106-97-2)	-	22.4	44.7	5000	Isopropanol (67-63-0)	-	22.4	44.7	5000
1-Butanol (71-36-3)	-	22.4	44.7	5000	Isopropyl acetate (108-21-4)	-	22.4	44.7	5000
2-Butanol (78-92-2)	-	22.4	44.7	5000	Isopropyl benzene (98-82-8)	-	2.24	4.47	70
2-Butanone (78-93-3)	-	22.4	44.7	5000	Methanol (67-56-1)	-	22.4	44.7	3000
Cyclohexane (110-82-7)	-	22.4	44.7	3880	2-Methylbutane (78-78-4)	-	22.4	44.7	5000
1,2-Dimethoxyethane (110-71-4)	-	2.24	4.47	100	Methylene chloride (75-9-2)	-	22.4	44.7	600
N,N-Dimethylacetamide (127-19-5)	-	22.4	44.7	1090	2-Methylpentane (107-83-5)	-	7.83	15.7	290
2,2-Dimethylbutane (75-83-2)	-	7.83	15.7	290	3-Methylpentane (96-10-0)	-	7.83	15.7	290
2,3-Dimethylbutane (79-29-8)	-	7.83	15.7	290	n-Pentane (109-66-0)	-	22.4	44.7	5000
N,N-Dimethylformamide (68-12-2)	-	22.4	44.7	880	1-Pentanol (71-41-0)	-	22.4	44.7	5000
Dimethylsulfoxide (67-68-5)	-	22.4	44.7	5000	n-Propane (74-98-6)	-	22.4	44.7	5000
1,4-Dioxane (123-91-1)	-	22.4	44.7	380	1-Propanol (71-23-8)	-	22.4	44.7	5000
Ethanol (64-17-5)	-	22.4	44.7	5000	Pyridine (110-86-1)	-	7.83	15.7	200
2-Ethoxyethanol (110-80-5)	-	7.83	15.7	160	Tetrahydrofuran (109-99-9)	-	22.4	44.7	720
Ethyl ether (60-29-7)	-	22.4	44.7	5000	Tetramethylene sulfone (126-33-0)	-	7.83	15.7	160
Ethyl acetate (141-78-6)	-	22.4	44.7	5000	Toluene (108-88-3)	-	22.4	44.7	890
Ethyl benzene (100-41-4)	-	22.4	44.7	2170	o-Xylene (95-47-6)	-	22.4	44.7	2170
Ethylene glycol (107-21-1)	-	22.4	44.7	620	m,p-Xylene (108-38-3 or 106-42-3)	-	22.4	44.7	2170
Ethylene oxide (75-21-8)	-	2.24	4.47	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: ARV-Infused Ghee Butter 600mg Jar **Date Completed:** 06/29/2025

PESTICIDES PROFILE (SOP: SOP-PEST-001)

Analysis Date/Time: 06/27/2025 1517
Analyst: KF

Method: LC/MS/MS
Instrument: Shimadzu LC-8050

Deviations from SOP:
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)	-	0.00928	0.0742	0.5	Kresoxim-methyl (143390-89-0)	-	0.00928	0.0742	0.4
Acephate (30560-19-1)	-	0.00928	0.0742	0.4	Malathion (121-75-5)	-	0.00928	0.0742	0.2
Acequinocyl (57960-19-7)	-	0.00928	0.0742	2	Metalaxyl (57837-19-1)	-	0.00928	0.0742	0.2
Acetamiprid (135410-20-7)	-	0.00928	0.0742	0.2	Methiocarb (2032-65-7)	-	0.00928	0.0742	0.2
Aldicarb (116-06-3)	-	0.00928	0.0742	0.4	Methomyl (16752-77-5)	-	0.00928	0.0742	0.4
Azoxystrobin (131860-33-8)	-	0.00928	0.0742	0.2	Methyl parathion (298-0-0)	-	0.00928	0.0742	0.2
Bifenazate (149877-41-8)	-	0.00928	0.0742	0.2	MGK 264 (113-48-4)	-	0.00928	0.0742	0.2
Bifenthrin (82657-04-3)	-	0.00928	0.0742	0.2	Myclobutanil (88671-89-0)	-	0.00928	0.0742	0.2
Boscalid (188425-85-6)	-	0.00928	0.0742	0.4	Naled (300-76-5)	-	0.00928	0.0742	0.5
Carbaryl (63-25-2)	-	0.00928	0.0742	0.2	Oxamyl (23135-22-0)	-	0.00928	0.0742	1
Carbofuran (1563-66-2)	-	0.00928	0.0742	0.2	Paclobotrazol (76738-62-0)	-	0.00928	0.0742	0.4
Chlorantraniliprole (800008-45-7)	-	0.00928	0.0742	0.2	Permethrins (52645-53-1)	-	0.00928	0.0742	0.2
Chlorfenapyr (122453-73-0)	-	0.00928	0.0742	1	Phosmet (732-11-6)	-	0.00928	0.0742	0.2
Chlorpyrifos (2921-88-2)	-	0.00928	0.0742	0.2	Piperonyl butoxide (51-03-6)	-	0.00928	0.0742	2
Clofentezine (74115-24-5)	-	0.00928	0.0742	0.2	Prallethrins (2331-36-9)	-	0.00928	0.0742	0.2
Cyfluthrin (68359-37-5)	-	0.00928	0.0742	1	Propiconazole (60207-90-1)	-	0.00928	0.0742	0.4
Cypermethrin (52315-07-8)	-	0.00928	0.0742	1	Propoxur (114-26-1)	-	0.00928	0.0742	0.2
Daminozide (1596-84-5)	-	0.00928	0.0742	1	Pyrethrins (8003-34-7)	-	0.00928	0.0742	1
DDVP (62-73-7)	-	0.00928	0.0742	0.1	Pyridaben (96489-71-3)	-	0.00928	0.0742	0.2
Diazinon (333-41-5)	-	0.00928	0.0742	0.2	Spinosad (168316-95-8)	-	0.00928	0.0742	0.2
Dimethoate (60-51-5)	-	0.00928	0.0742	0.2	Spiromesifen (283594-90-1)	-	0.00928	0.0742	0.2
Ethoprophos (13194-48-4)	-	0.00928	0.0742	0.2	Spirotetramat (203313-25-1)	-	0.00928	0.0742	0.2
Etofenprox (80844-07-1)	-	0.00928	0.0742	0.4	Spiroxamine (118134-30-8)	-	0.00928	0.0742	0.4
Etoxazole (153233-91-1)	-	0.00928	0.0742	0.2	Tebuconazole (80443-41-0)	-	0.00928	0.0742	0.4
Fenoxycarb (72490-01-8)	-	0.00928	0.0742	0.2	Thiacloprid (111988-49-9)	-	0.00928	0.0742	0.2
(E)-Fenpyroximate (134098-61-6)	-	0.00928	0.0742	0.4	Thiamethoxam (153719-23-4)	-	0.00928	0.0742	0.2
Fipronil (120068-37-3)	-	0.00928	0.0742	0.4	Trifloxystrobin (141517-21-7)	-	0.00928	0.0742	0.2
Flonicamid (158062-67-0)	-	0.00928	0.0742	1					
Fludioxinil (131341-86-1)	-	0.00928	0.0742	0.4					
Hexythiazox (78587-05-0)	-	0.00928	0.0742	1					
Imazalil (35554-44-0)	-	0.00928	0.0742	0.2					
Imidacloprid (138261-41-3)	-	0.00928	0.0742	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	Sythane	Propiconazole	Tilt
DDVP	Dichlorvos	Naled	Dibrom	Propoxur	Baygon
Ethoprophos	Prophos	Phosmet	Imidan		

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Cultivar (Strain) or Sample Description: ARV-Infused Ghee Butter 600mg Jar **Date Completed:** 06/29/2025

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

Analysis Date/Time: 06/27/2025 1446	Method: ICP/MS Instrument: Agilent 7700x	Deviations from SOP: 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	56.6	89.6	200
Cadmium (Cd)	ND	56.6	89.6	200
Lead (Pb)	ND	56.6	89.6	500
Mercury (Hg)	ND	56.6	89.6	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



"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



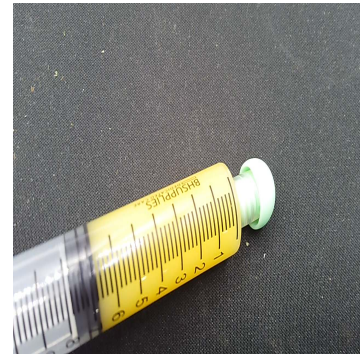
CERTIFICATE OF ANALYSIS (SAMPLE ID: SA41507)

Testing Location: Arkansas 232 S. Broadview St. Greenbrier, AR 72058 -	Customer ID: 2168 River Valley Relief MIPS 5601 Old Greenwood Rd Suite C Fort Smith, AR 72903 License: 00065C	Sample ID: SA41507 Lot Number: M00065C13228883093 Production Run: P20250624GHEE02	Sample Type: Primary Matrix: Edible Mass: 1ea Date Collected: 06/26/2025 Date Received: 06/26/2025
Cultivar (Strain) or Sample Description: ARV-Infused Ghee Butter 600mg Jar			Date Completed: 06/29/2025

MICROBIOLOGICAL PROFILE (SOP: SOP-Micro-001)

Analysis Date/Time: 06/27/2025 1232 **Method:** Hardy Diagnostics CompactDry **Deviations from SOP:**
Analyst: PW **Instrument:** Thermo Incubator None

<u>Bacteria/Microbe</u>	<u>Result (CFU/g)</u>	<u>Action Level (CFU/g)</u>
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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