F.A.S.T. LABORATORIES/RESEARCH

ACCREDITED CERTIFICATE #4473.01

ASA PFC Laboratory

Analyzed on behalf of:

RVR RIVER VALLEY RELIEF

SUMMARY OF ANALYSIS (SAMPLE ID: SA38965)

Testing Location:	**Customer ID:** 2168	**Order ID:** OR11215	**Sample Type:** Primary
Arkansas	River Valley Relief MIPS	**Lot Number:**	**Matrix:** Edible
232 S. Broadview St.	5601 Old Greenwood Rd Suite C	M00065C13220003538	**Mass:** 1ea
Greenbrier, AR 72058	Fort Smith, AR 72903	**Production Run:**	**Date Collected:** 09/26/2024
License: ADH 113	License: 00065C	P20240925GHEE10	**Date Received:** 09/27/2024

Cultivar (Strain) or Sample Description: ARV-Infused Ghee Butter 600mg Jar — **Date Completed:** 09/29/2024

*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 (%)	Water Activity (aw)	PASS/FAIL
Not Tested	Not Tested	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	0.661	6.61
Δ8-THC	0.0291	0.291
CBG	0.0268	0.268
TOTAL CBD	0.0257	0.257
TOTAL THC	0.661	6.61
TOTAL CANNABINOIDS	0.760	7.60

Terpenes (Top 5)	(%)	µg/g
d-Limonene	0.000889	8.89
β-Caryophyllene	0.000719	7.19
β-Myrcene	0.000595	5.95
α-Bisabolol	0.000573	5.73
Camphene		
TOTAL TERPENES	0.00278	27.8

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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Laboratory Director

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Cultivar (Strain) or Sample Description: ARV-Infused Ghee Butter 600mg Jar — **Date Completed:** 09/29/2024

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

Analysis Date/Time: 09/27/2024 1458 — **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	ND	ND	0.00215	0.00501	-	-	-
CBCA	ND	ND	0.00666	0.0155	-	-	-
CBD	0.0257	0.257	0.0151	0.0353	-	0.386	23.1
CBDA	ND	ND	0.00557	0.0130	-	-	-
CBDV	ND	ND	0.00243	0.00566	-	-	-
CBDVA	ND	ND	0.00647	0.0151	-	-	-
CBG	0.0268	0.268	0.00982	0.0229	-	0.402	24.1
CBGA	ND	ND	0.0139	0.0164	-	-	-
CBL	ND	ND	0.0113	0.0265	-	-	-
CBN	0.0176	0.176	0.00521	0.0122	-	0.264	15.8
CBNA	ND	ND	0.00563	0.0131	-	-	-
Δ9-THC	0.661	6.61	0.00625	0.0146	-	9.92	595
Δ8-THC	0.0291	0.291	0.00975	0.0228	-	0.437	26.2
THCA	ND	ND	0.00339	0.00792	-	-	-
THCV	ND	ND	0.00813	0.0190	-	-	-
THCVA	ND	ND	0.00260	0.00604	-	-	-
TOTAL	0.760	7.60			-	11.4	684
TOTAL CBC	-	-			-	-	-
TOTAL CBD	0.0257	0.257			-	0.386	23.1
TOTAL CBDV	-	-			-	-	-
TOTAL CBG	0.0268	0.268			-	0.402	24.1
TOTAL CBN	0.0176	0.176			-	0.264	15.8
TOTAL THC	0.661	6.61			-	9.92	595
TOTAL THCV	-	-			-	-	-

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

"-" 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 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, UM - Measurement Uncertainty

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CERTIFICATE OF ANALYSIS (SAMPLE ID: SA38965)

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Greenbrier, AR 72058	Fort Smith, AR 72903	**Production Run:**	**Date Collected:** 09/26/2024
License: ADH 113	License: 00065C	P20240925GHEE10	**Date Received:** 09/27/2024

Cultivar (Strain) or Sample Description: ARV-Infused Ghee Butter 600mg Jar — **Date Completed:** 09/29/2024

TERPENOID PROFILE

Analysis Date/Time:09/27/2024 2112 — **Method:** GC/MS — **Deviations from SOP:**

Analyst: KF — **Instrument:** Agilent 7890/5975 — None

Terpene	Result (µg/g)	Result (%)
α-Bisabolol	5.73	0.000573
Camphene	ND	-
δ-3-Carene	ND	-
β-Caryophyllene	7.19	0.000719
Caryophyllene oxide	<LOQ	-
p-Cymene	ND	-
Eucalyptol	ND	-
Geraniol	ND	-
Guaiol	ND	-
α-Humulene	<LOQ	-
Isopulegol	ND	-
d-Limonene	8.89	0.000889
Linalool	<LOQ	-
β-Myrcene	5.95	0.000595
cis-Nerolidol	ND	-
trans-Nerolidol	ND	-
α-Ocimene	ND	-
β-Ocimene	<LOQ	-
α-Pinene	ND	-
β-Pinene	ND	-
α-Terpinene	ND	-
γ-Terpinene	ND	-
Terpinolene	ND	-
TOTAL	27.8	0.00278

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): 4.70

"-" Not detected above LOD.

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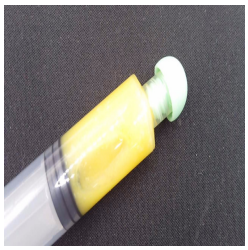
RESIDUAL SOLVENT PROFILE (SOP: SOP-RS-001)

Analysis Date/Time: 09/27/2024 2211 — **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)
Acetone (67-64-1)	-	39.6	79.2	5000
Acetonitrile (75-5-8)	-	39.6	79.2	410
Benzene (71-43-2)	-	0.396	0.792	2
n-Butane (106-97-2)	-	39.6	79.2	5000
1-Butanol (71-36-3)	-	39.6	79.2	5000
2-Butanol (78-92-2)	-	39.6	79.2	5000
2-Butanone (78-93-3)	-	39.6	79.2	5000
Cyclohexane (110-82-7)	-	39.6	79.2	3880
1,2-Dimethoxyethane (110-71-4)	-	3.96	7.92	100
N,N-Dimethylacetamide (127-19-5)	-	39.6	79.2	1090
2,2-Dimethylbutane (75-83-2)	-	13.9	27.7	290
2,3-Dimethylbutane (79-29-8)	-	13.9	27.7	290
N,N-Dimethylformamide (68-12-2)	-	39.6	79.2	880
Dimethylsulfoxide (67-68-5)	-	39.6	79.2	5000
1,4-Dioxane (123-91-1)	-	39.6	79.2	380
Ethanol (64-17-5)	-	39.6	79.2	5000
2-Ethoxyethanol (110-80-5)	-	13.9	27.7	160
Ethyl ether (60-29-7)	-	39.6	79.2	5000
Ethyl acetate (141-78-6)	-	39.6	79.2	5000
Ethyl benzene (100-41-4)	-	39.6	79.2	2170
Ethylene glycol (107-21-1)	-	39.6	79.2	620
Ethylene oxide (75-21-8)	-	3.96	7.92	50

Solvent	Result (µg/g)	LOD (µg/g)	LOQ (µg/g)	Action Level (µg/g)
n-Heptane (142-82-5)	-	39.6	79.2	5000
n-Hexane (110-54-3)	-	13.9	27.7	290
Isobutane (75-28-5)	-	39.6	79.2	5000
Isopropanol (67-63-0)	-	39.6	79.2	5000
Isopropyl acetate (108-21-4)	-	39.6	79.2	5000
Isopropyl benzene (98-82-8)	-	3.96	7.92	70
Methanol (67-56-1)	-	39.6	79.2	3000
2-Methylbutane (78-78-4)	-	39.6	79.2	5000
Methylene chloride (75-9-2)	-	39.6	79.2	600
2-Methylpentane (107-83-5)	-	13.9	27.7	290
3-Methylpentane (96-10-0)	-	13.9	27.7	290
n-Pentane (109-66-0)	-	39.6	79.2	5000
1-Pentanol (71-41-0)	-	39.6	79.2	5000
n-Propane (74-98-6)	-	39.6	79.2	5000
1-Propanol (71-23-8)	-	39.6	79.2	5000
Pyridine (110-86-1)	-	13.9	27.7	200
Tetrahydrofuran (109-99-9)	-	39.6	79.2	720
Tetramethylene sulfone (126-33-0)	-	13.9	27.7	160
Toluene (108-88-3)	-	39.6	79.2	890
o-Xylene (95-47-6)	-	39.6	79.2	2170
m,p-Xylene (108-38-3 or 106-42-3)	-	39.6	79.2	2170
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
Dimethysufoxide	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:** 09/29/2024

PESTICIDES PROFILE (SOP: SOP-PEST-001)

Analysis Date/Time: 09/27/2024 1446 — **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)
Abamectin (71751-41-2)	-	0.00934	0.0748	0.5
Acephate (30560-19-1)	-	0.00934	0.0748	0.4
Acequinocyl (57960-19-7)	-	0.00934	0.0748	2
Acetamiprid (135410-20-7)	-	0.00934	0.0748	0.2
Aldicarb (116-06-3)	-	0.00934	0.0748	0.4
Azoxystrobin (131860-33-8)	-	0.00934	0.0748	0.2
Bifenazate (149877-41-8)	-	0.00934	0.0748	0.2
Bifenthrin (82657-04-3)	-	0.00934	0.0748	0.2
Boscalid (188425-85-6)	-	0.00934	0.0748	0.4
Carbaryl (63-25-2)	-	0.00934	0.0748	0.2
Carbofuran (1563-66-2)	-	0.00934	0.0748	0.2
Chlorantraniliprole (800008-45-7)	-	0.00934	0.0748	0.2
Chlorfenapyr (122453-73-0)	-	0.00934	0.0748	1
Chlorpyrifos (2921-88-2)	-	0.00934	0.0748	0.2
Clofentezine (74115-24-5)	-	0.00934	0.0748	0.2
Cyfluthrin (68359-37-5)	-	0.00934	0.0748	1
Cypermethrin (52315-07-8)	-	0.00934	0.0748	1
Daminozide (1596-84-5)	-	0.00934	0.0748	1
DDVP (62-73-7)	-	0.00934	0.0748	0.1
Diazinon (333-41-5)	-	0.00934	0.0748	0.2
Dimethoate (60-51-5)	-	0.00934	0.0748	0.2
Ethoprophos (13194-48-4)	-	0.00934	0.0748	0.2
Etofenprox (80844-07-1)	-	0.00934	0.0748	0.4
Etoxazole (153233-91-1)	-	0.00934	0.0748	0.2
Fenoxycarb (72490-01-8)	-	0.00934	0.0748	0.2
(E)-Fenpyroximate (134098-61-6)	-	0.00934	0.0748	0.4
Fipronil (120068-37-3)	-	0.00934	0.0748	0.4
Flonicamid (158062-67-0)	-	0.00934	0.0748	1
Fludioxinil (131341-86-1)	-	0.00934	0.0748	0.4
Hexythiazox (78587-05-0)	-	0.00934	0.0748	1
Imazalil (35554-44-0)	-	0.00934	0.0748	0.2
Imidacloprid (138261-41-3)	-	0.00934	0.0748	0.4
Kresoxim-methyl (143390-89-0)	-	0.00934	0.0748	0.4
Malathion (121-75-5)	-	0.00934	0.0748	0.2
Metalaxyl (57837-19-1)	-	0.00934	0.0748	0.2
Methiocarb (2032-65-7)	-	0.00934	0.0748	0.2
Methomyl (16752-77-5)	-	0.00934	0.0748	0.4
Methyl parathion (298-0-0)	-	0.00934	0.0748	0.2
MGK 264 (113-48-4)	-	0.00934	0.0748	0.2
Myclobutanil (88671-89-0)	-	0.00934	0.0748	0.2
Naled (300-76-5)	-	0.00934	0.0748	0.5
Oxamyl (23135-22-0)	-	0.00934	0.0748	1
Paclobutrazol (76738-62-0)	-	0.00934	0.0748	0.4
Permethrins (52645-53-1)	-	0.00934	0.0748	0.2
Phosmet (732-11-6)	-	0.00934	0.0748	0.2
Piperonyl butoxide (51-03-6)	-	0.00934	0.0748	2
Prallethrins (2331-36-9)	-	0.00934	0.0748	0.2
Propiconazole (60207-90-1))	-	0.00934	0.0748	0.4
Propoxur (114-26-1)	-	0.00934	0.0748	0.2
Pyrethrins (8003-34-7)	-	0.00934	0.0748	1
Pyridaben (96489-71-3)	-	0.00934	0.0748	0.2
Spinosad (168316-95-8)	-	0.00934	0.0748	0.2
Spiromesifen (283594-90-1)	-	0.00934	0.0748	0.2
Spirotetramat (203313-25-1)	-	0.00934	0.0748	0.2
Spiroxamine (118134-30-8)	-	0.00934	0.0748	0.4
Tebuconazole (80443-41-0)	-	0.00934	0.0748	0.4
Thiacloprid (111988-49-9)	-	0.00934	0.0748	0.2
Thiamethoxam (153719-23-4)	-	0.00934	0.0748	0.2
Trifloxystrobin (141517-21-7)	-	0.00934	0.0748	0.2

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-200.6)

Analysis Date/Time: 09/27/2024 1950

Method: ICP/MS

Instrument: Agilent 7500ce

Deviations from SOP: None

Analyst: KF

Heavy Metal	Result (µg/kg)	LOD (µg/kg)	LOQ (µg/kg)	Action Level (µg/kg)
Arsenic (As)	-	57.7	91.3	200
Cadmium (Cd)	-	57.7	91.3	200
Lead (Pb)	-	57.7	91.3	500
Mercury (Hg)	-	57.7	91.3	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

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.

Kyle W. Felling, Ph.D.
Laboratory Director

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F.A.S.T. LABORATORIES/RESEARCH

ACCREDITED CERTIFICATE #4473.01

ASA PFC Laboratory

Analyzed on behalf of:

RVR RIVER VALLEY RELIEF

CERTIFICATE OF ANALYSIS (SAMPLE ID: SA38965)

Testing Location:	**Customer ID:** 2168	**Sample ID:** SA38965	**Sample Type:** Primary
Arkansas	River Valley Relief MIPS	**Lot Number:**	**Matrix:** Edible
232 S. Broadview St.	5601 Old Greenwood Rd Suite C	M00065C13220003538	**Mass:** 1ea
Greenbrier, AR 72058	Fort Smith, AR 72903	**Production Run:**	**Date Collected:** 09/26/2024
License: ADA 05_H273	License: 00065C	P20240925GHEE10	**Date Received:** 09/27/2024

Cultivar (Strain) or Sample Description: ARV-Infused Ghee Butter 600mg Jar — **Date Completed:** 09/29/2024

MICROBIOLOGICAL PROFILE (SOP: SOP-Micro-001)

Analysis Date/Time: 09/29/2024 0830 — **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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