



### SUMMARY OF ANALYSIS (SAMPLE ID: SA37292)

Testing Location:	Customer ID: 2168	Order ID: OR10893	Sample Type: Primary
Arkansas	<b>River Valley Relief MIPS</b>	Lot Number:	Matrix: Edible
232 S. Broadview St.	5601 Old Greenwood Rd Suite C	M00065C13224948536	Mass: 1g
Greenbrier, AR 72058	Fort Smith, AR 72903	Production Run:	Date Collected: 03/04/2024
License: ADH 113	License: 00065C	P20240220GHEE08	Date Received: 03/04/2024
Cultivar (Strain) or Sample De	scription: ARV-Infused Ghee Butter		Date Completed: 03/06/2024

\*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.

<u>Cannabinoia</u> Δ9-TH CBI Δ8-TH TOTAL TOTAL TOTAL TOTAL	HC ) HC CBD THC	(%) 0.623 0.0468 0.0353 0.0468 0.623 0.745	mg/g 6.23 0.468 0.353 0.468 6.23 7.45		
<u>Terpenes</u> α-Bisab Camph δ-3-Car β-Caryoph Caryophylle TOTAL TE	olol ene rene nyllene ne oxide	<u>(%)</u>	µg∕g		
<u>Contaminants</u> Heavy Metals: Microbiology: Pesticides: Residual Solvents:	PASS/FAIL PASS PASS PASS PASS	Sample Picture Upon Receipt			



Scan the QR code to verify results.

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. aboratory Director

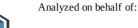
#### REPORT OF LABORATORY ANALYSIS

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Cultivar (Strain) or Sample De	Date Completed: 03/06/2024		

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

Analysis Date/Time: 03/05/2024 1622 Analyst: PW Method: HPLC/DAD Instrument: Agilent 1100

<u>Cannabinoid</u>	<u>Result</u> (%)	<u>Result</u> (mg/g)	<u>LOD</u> (mg/g)	LOQ (mg/g)	<u>Result</u> ( <u>mg/</u> <u>mL)</u>	<u>Per</u> Serving (mg)	<u>Per</u> <u>Unit</u> (mg)	
CBC	ND	ND	0.00222	0.00517	-	-	-	
CBCA	ND	ND	0.00688	0.0161	-	-	-	
CBD	0.0468	0.468	0.0156	0.0365	-	0.701	42.1	
CBDA	ND	ND	0.00575	0.0134	-	-	-	
CBDV	ND	ND	0.00251	0.00585	-	-	-	
CBDVA	ND	ND	0.00669	0.0156	-	-	-	
CBG	0.0164	0.164	0.0101	0.0237	-	0.246	14.7	
CBGA	ND	ND	0.0144	0.0170	-	-	-	
CBL	ND	ND	0.0117	0.0274	-	-	-	
CBN	0.0112	0.112	0.00538	0.0126	-	0.167	10.0	
CBNA	ND	ND	0.00581	0.0135	-	-	-	
Δ9-ΤΗC	0.623	6.23	0.00645	0.0150	-	9.34	561	
$\Delta 8$ -THC	0.0353	0.353	0.0101	0.0235	-	0.530	31.8	
THCA	ND	ND	0.00350	0.00818	-	-	-	
THCV	0.0129	0.129	0.00840	0.0196	-	0.194	11.6	
THCVA	ND	ND	0.00268	0.00624	-	-	-	
TOTAL	0.745	7.45				11.2	671	
TOTAL CBC	-	-				-	-	
TOTAL CBD	0.0468	0.468			-	0.701	42.1	
TOTAL CBDV	-	-			-	-	-	
TOTAL CBG	0.0164	0.164			-	0.246	14.7	
TOTAL CBN	0.0112	0.112			-	0.167	10.0	
TOTAL THC	0.623	6.23			-	9.34	561	
TOTAL THCV	0.0129	0.129			-	0.194	11.6	

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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The statements and results herein have not been approved and/or endorsed by the FDA.

Moisture Content (%): -Water Activity (aw): -



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) +  $\Delta$ 9-THC Total THCV = (THCVA x 0.867) + THCV

Percentage results are reported by mass.

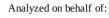
mg/g results are reported as mass component per mass material.

Kyle W. Felling, Ph.D. ory Dire









**Deviations from SOP:** 



# **CERTIFICATE OF ANALYSIS (SAMPLE ID: SA37292)**

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Greenbrier, AR 72058	Fort Smith, AR 72903	Production Run:	Date Collected: 03/04/2024
License: ADH 113	License: 00065C	P20240220GHEE08	Date Received: 03/04/2024
Cultivar (Strain) or Sample	<b>Date Completed:</b> 03/06/2024		

Analysis Date/Time:03/06/2024 0053 Analyst. KE

<b>TERPENOID PROFILE</b>
Method: GC/MS

Analyst: KF		Instrument: Agilent 7890/5975	None
<u>Terpene</u>	<u>Result</u> (µg/g)	Result (%)	\$
α-Bisabolol	ND	-	
Camphene	ND	-	
δ-3-Carene	ND	-	
β-Caryophyllene	ND	-	
Caryophyllene oxide	ND	-	
p-Cymene	ND	-	
Eucalyptol	ND	-	9
Geraniol	ND	-	
Guaiol	ND	-	Abbreviations: GC - Gas
α-Humulene	ND	-	Chromatography, MS - Mass
Isopulegol	ND	-	Spectrometry, RL - Reporting Limit
d-Limonene	ND	-	<i>Abbreviations:</i> ND - Not Detected, , LOD - Limit of Detection, LOQ - Limit
Linalool	ND	-	of Quantitation
β-Myrcene	ND	-	This information is provided as a service and makes no claims of efficacy and/or
cis-Nerolidol	ND	-	safety of this product.
trans-Nerolidol	ND	-	Results are applicable only for the sample(s) analyzed and for the specific
α-Ocimene	ND	-	analysis conducted.
β-Ocimene	ND	-	This report is for informational purposes only and should not be used to diagnose,
α-Pinene	ND	-	treat, or prevent any
β-Pinene	ND	-	medical-related symptoms.
α-Terpinene	ND	-	The statements and results herein have not been approved and/or endorsed by
γ-Terpinene	ND	-	the FDA.
Terpinolene	ND	-	
TOTAL	0.000	0.000	<b>Reporting Limit (µg/g):</b> 4.

Reporting Limit (µg/g): 4.23

"-" Not detected above LOD.













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Cultivar (Strain) or Sample De	scription: ARV-Infused Ghee Butter		Date Completed: 03/06/2024

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

Serie       Ref.	Analysis Date/Time: Analyst: KF	me: 03/04/2024 2248         Method: HS/GC/MS           Instrument: Agilent 7890/5975			<b>Deviations from SOP:</b> None						
Accontributor (75-3·)       I.47       294       410       n-fleame (105-64)       51.4       103       290         Brauze (12-43-2)       I.47       294       500       Borpane (75-86)       I.47       294       500         I-Blauan (12-36-3)       I.47       294       500       Borpane (75-87-6)       I.47       294       500       BORDER       I.47       294       100       Color Key         12-Dimethysicherande       I.47       294       100       2-Methysinate (75-87-6)       I.47       294       500       BORDER       IBERUIT ALL       BORDER       IBERUIT ALL	<u>Solvent</u>				Level	<u>Solvent</u>				Level	
Bensew (71-43-2)       1.47       2.94       2.9       boluan (75-28-5)       1.47       2.94       5000         Bensen (71-63-2)       1.47       2.94       5000       Soroporal (67-63-0)       1.47       2.94       5000         2-Butano (78-92-2)       1.47       2.94       5000       Bologoral (67-63-1)       1.47       2.94       700         2-Butano (78-92-3)       1.47       2.94       5000       Bologoral (67-63-1)       1.47       2.94       5000       Color Key         2-Butano (78-92-3)       1.47       2.94       700       Methaul (75-6-1)       1.47       2.94       5000       TUBSULT > AL         1/10-74-0       1.47       2.94       700       Color Key       TUBSULT > AL       TUBSULT > AL         1/27-195)       1.47       2.94       700       Color Key       TUBSULT > AL       TUBSULT > AL         2.2-Direchybritoma       5       1.47       2.94       700       TUBSULT > AL       TUBSULT > AL         2.2-Direchybritoma       5       1.47       2.94       700       TUBSULT > AL       TUBSULT > AL         2.2-Direchybritoma       5       1.47       2.94       700       TUBSULT > AL       TUBSULT > AL       TUBSULT > AL       TU	Acetone (67-64-1)	-	147	294	5000	n-Heptane (142-82-5)	-	147	294	5000	
n Batane (106 97-2)147294500sopopand (67-63-0)147147147140500formal (1-16-1)1-Butane (173-63)147294500(100-21-1)(100-21-1)(147)294500(100-21-1)(147)294500(100-21-1)(147)294500(100-21-1)(147)294500(100-21-1)(147)294500(100-21-1)(147)294500(100-21-1)(147)294500(100-21-1)(147)294500(100-21-1)(147)294500(100-21-1)(147)294500(100-21-1)(147)294500(17)(15)(17)(14)294500(100-21-1)(17)294100(17)(14)294500(10)(14)294500(10)(14)294500(10)(14)294500(10)(14)294500(10)(14)294500(11)(14)294500(11)(14)294500(11)(14)294500(11)(14)294500(11)(14)294500(11)(14)294500(11)(14)294500(11)(14)294500(11)(14)294500(11)(14)294500(11)(14)294500(11)(14)294500(11)(14)294500(11)(14)29410)(11)<	Acetonitrile (75-5-8)	-	147	294	410	n-Hexane (110-54-3)	-	51.4	103	290	
1-Battand (71-36-3) 2-Battand (78-32-2)1472945000 5000for port learning (109-21-2)1472945000 5000for port learning (109-24-3)5000 5000Calor Key 	Benzene (71-43-2)	-	1.47	2.94	2	Isobutane (75-28-5)	-	147	294	5000	
2-butanol (78-92.2)147294500(10+2)-1147294500(10+2)-1147294500(10+2)-1147294500(10+2)-1147294500(10+2)-1(10+2)-11472943000Calor Key12-Direch Oxychane14.72942401472941002401472943000RESULT > AL110-71-4)14.7294147294600RESULT > AL1001001001001002-Direch Oybuane14.729410020075-00100147294600RESULT > AL2-Direch Oybuane14.729410020075-0010010010020075-001002-Direch Oybuane51.410320075-1010020075-1010020075-1010020075-1010020075-1010020075-1010020075-1010020075-1010020075-1010020075-1010020075-1010020075-1010020075-1010020075-1010020075-10200 </td <td>n-Butane (106-97-2)</td> <td>-</td> <td>147</td> <td>294</td> <td>5000</td> <td>Isopropanol (67-63-0)</td> <td>-</td> <td>147</td> <td>294</td> <td>5000</td> <td></td>	n-Butane (106-97-2)	-	147	294	5000	Isopropanol (67-63-0)	-	147	294	5000	
2-Butano (78-92-2) in 147 294 500 isopropy betrace (96-24) isopromy betrace (96-	1-Butanol (71-36-3)	-	147	294	5000		_	147	294	5000	
2-bit and (10-62-7)147294300(e) e/3 2.3014.7294300Color Key1.2-Dimethoxyethate (10-71-4)1472942043002.4ethylbutane (78-78-4)147294500RESULT < AL	2-Butanol (78-92-2)	-	147	294	5000			147	234	5000	2
Cyclohezae (10-92-)       i       147       294       300       Hethanol (67-56-1)       147       294       300       RESULT * AL.         1.2-Dimethysphatemial       147       24       107       294       100       2-Methylphata(67-56-1)       147       294       500       RESULT * AL.         N.Dimethylbatemia       147       24       103       20       "DET" detected less than LOQ         (25-39-2)       51.4       103       20       "DET" detected less than LOQ         (25-39-2)       51.4       103       290       "DET" detected less than LOQ         (25-39-2)       51.4       103       290       "DET" detected less than LOQ         (25-39-2)       -Pretane(109-66-10)       51.4       103       290       "To t detected less than LOQ         (76-63-2)       147       294       500       -Pretane(109-66-10)       51.4       103       200       referenced from thest test of LOP         (76-65-1)       147       294       500       -Pretane(10-66-10)       51.4       103       200       referenced from the State of Arkansas         (76-65-1)       147       294       500       Freandey/mana (109-99-9)       147       294       500       Arkansas	2-Butanone (78-93-3)	-	147	294	5000		-	14.7	29.4	70	
$ \begin{array}{                                    $	Cyclohexane (110-82-7)	-	147	294	3880			147	204	3000	Color Key
$ \begin{array}{                                    $	5	_	147	29.4	100						
$ \begin{array}{c c c c c c c } \hline 2.2 \mbodyline (75-33-2) & 1.0 \\ (75-33-2) $	N,N-Dimethylacetamide	-				Methylene chloride	-				
2.3-Dimethylbotane       P3-B       P3-B       Pachadylperiane (96-10-0)       Pachadylperian	2,2-Dimethylbutane	-	51.4	103	290		-	51.4	103	290	"DET" detected less than LOQ
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$			51.4	102	200	3-Methylpentane (96-10-0)	-	51.4	103	290	
(68-12-2)147294800 $n$ -Propane (74-98-6)1472945000Ethylene and Ethylene (76-86-5)144729450001472945000Action levels are referenced from the State of Arkansas14-bioxane (123-91-1)147294300Propanol (71-23-8)147294720Action levels are referenced from the State of Arkansas2-Ethoxyethanol (110-80-5)1472945000Ternahydroman (109-99-9)147294700Arkansas2-Ethoxyethanol (110-80-5)51.4103160Ternahydroman (109-99-9)147294800MM Testing guidelines.Ethyl ether (60-29-7)1472945000Ternahydroman (109-89-9)147294800MM Testing guidelines.Ethyl acetate (141-78-6)1472945000Ternahydroman (109-89-9)1472942170A value of "-" for the action level is not currently regulated by the regulated by the regulated the sulfone1472942170Mavalue of "-" for the action levelEthyl ene giveol (107-21-1)1472942170Np-Vylene (108-38-3 or to yvylene (130-20-7)1472942170means that analyte is not currently regulated by the regulated by the regulated by the regulated by the regulated by the so currently regulated by the regu		-	51.4	103	290	n-Pentane (109-66-0)	-	147	294	5000	LOD
Dimensive life (67-68-5)1472945001-Propanol (71-23-8)147294500Action levels are referenced from the State of Action levels are referenced from the State of Arkansas1.4-Dioxane (123-91-1)1147294300Tetrahydrofuran (109-99-9)1147294720Action levels are referenced from the State of Arkansas2-Ethoxyethanol (10-80-5)1147294500Tetrahydrofuran (109-99-9)11472948902-Ethoxyethanol (10-80-5)1147294500Tetrahydrofuran (109-99-9)1147294890Ethyl ether (60-29-7)1147294500Totlene (108-83-3)1147294890Ethyl acetate (141-78-6)1147294500Totlene (108-83-3)11472942170A value of "." for the action level means that analyte is not currently regulated by the regulated by the 		-	147	294	880		-				
(a) - 30-5)(a) - 147294300Pridine (110-86-1)51.4103200Action levels are referenced from the State of Arkansas2-Ethoxy ethanol (110-80-5)147294500Tetramethylene sulfone (2-3-3-0)147294200Arkansas2-Ethoxy ethanol (110-80-5)147294500Toluen (108-88-3)147294800MMM testing guidelinesEthyl ether (60-29-7)1147294204500Toluen (108-88-3)147294800Avalue of "." for the action level means that analyte is not currently regulated of the 2-3147294210Avalue of "." for the action level means that analyte is not currently regulated by the regulations referenced from 400-Ethylene given (100-72-1-1)147294200Avalue of "." of the action level means that analyte is not currently regulated by the regulated by the regulations referenced above.Ethylene given (100-72-1-8)147294200Avalue of "." of the action level regulated by the regulated by the regulated by the regulated by the regulated by the regulated by the regulations referenced from 400-Ethylene given (100-72-1-8)147294200Avalue of "." of the action level regulated by the regulated by the <b< td=""><td></td><td>-</td><td>147</td><td>294</td><td>5000</td><td>1 ( )</td><td>-</td><td></td><td></td><td></td><td></td></b<>		-	147	294	5000	1 ( )	-				
Ethanol (64-17-5)1472945000Tetrahydrofuran (109-99-9)147294720Arkansas2-Ethoxyethanol (110-80-5)51.4103160Tetramethylene sulfone51.4103160MMJ testingEthyl ether (60-29-7)1472945000Toluene (108-88-3)147294800Avalue of "-"Ethyl acetate (141-78-6)1472945000 $-xylene (95-47-6)$ 1472942170Avalue of "-"Ethyl endor (107-21-1)147294620106-42-3)1472942170MachanalyteEthylene oxide (75-21-8)147294620106-42-3)1472942170Means that analyteEthylene oxide (75-21-8)1472942947201472942170means that analyteEthylene oxide (75-21-8)147294294207166-42-3)1472942170means that analyteEthylene oxide (75-21-8)1472942941472942170means that analyteis not currently regulated by the regulated by th	· · · ·		1.47	204	200	Pyridine (110-86-1)	-	51.4	103	200	
Link (W1 Park)10010		-				Tetrahydrofuran (109-99-9)	-	147	294	720	
Ethyl ethyl (60-29-7)       i       147       294       500       Toluene (108-83-3)       i       147       294       800         Ethyl ether (60-29-7)       i       147       294       500       o-xylene (95-47-6)       i       147       294       2170       for the action level         Ethyl ether (90-29-7)       i       147       294       2170       mo-xylene (108-38-3 or       i       147       294       2170       for the action level         Ethyl ether (90-29-7)       i       147       294       620       106-42-3)       i       147       294       2170       means that analyte is not currently regulated by the regulations referenced above.         Solvent       Symonym(s)       Solvent       Symonym(s)       Ethylene glycol       1,2-Ethanediol       1,2-Ethanediol       is not currently regulated by the regulations referenced above.         Solvent       Methyl Cyanide, ACN       Ethylene glycol       1,2-Ethanediol       1,2-Ethanediol       is not currently regulated by the regulations referenced above.         1-Butanol       n-Butanol, Butyl Alcoho       Isobutane       1,2-Ethanediol       1,2-Ethanediol       1,2-Ethanediol       1,2-Ethanediol       1,2-Ethanediol       1,2-Ethanediol       1,2-Ethanediol       1,2-Ethanediol       1,2-Ethanediol       1	· /	-					_	51/	103	160	
Ethylacetat (141-78-6)147294500 $\circ$ -Xylene (106-36-5)147294630A value of "-"Ethyl benzene (100-41-4)1472942170 $\circ$ -Xylene (108-38-3 or 106-42-3)1472942170for the action level mp-Xylene (108-38-3 or 106-42-3)Ethyl en gylcol (107-21-1)147294620106-42-3)1472942170means that analyte is not currently regulated by the regulated by	, , , , , , , , , , , , , , , , , , ,	-				· /					guidelines.
Ethyl benzene (100-41-4)       147       294       2170       for the action level         man. Yklene (100-41-4)       147       294       620       mpXylene (108-38-3 or 106-42-3)       147       294       2170       means that analyte is not currently is not cu	,					. ,	-				A value of " "
LinkLinkLinkLinkmp-Xylene (106-38-3 or mp-Xylene (106-42-3)1472942170means that analyte is not currently regulated by the regulated by	, , , , , , , , , , , , , , , , , , ,						-	147	294	2170	
Ethylene oxide (75-21-8) 14.7 29.4 50 Xylenes* (1330-20-7) 43.3 86.7 2170 Is not currently regulated by the regulations referenced above.   Solvent Synonym(s) Solvent Synonym(s) Synonym(s) regulations referenced above.   Acetonitrile Methyl Cyanide, ACN Ethylene glycol 1,2-Ethanediol 1.2-Ethanediol 1.2-Ethanediol   1-Butanol n-Butanol, Butyl Alcohol Isopropanol 2-Methylpropanol 2-Methylpropanol 1.2-Ethanediol   2-Butanol sec-Butyl alcohol Isopropal Acetate Acetor acid isopropyl ester 1.2-Ethanediol 1.2-Ethanediol   1,2-Dinethoxyethane Monglyme Methyl Letone, MEK Isopropal Acetate Acetor acid isopropyl ester 1.2-Ethanediol   2,3-Dinethylbutane Neohsane Methyl alcohol Methyl alcohol 1.2-Ethanediol   2,3-Dinethylbutane Nof Methylencholide Nogenanol   3,3-Dinethylbutane Diff Methylencholide Nogenanol   1,N-Dimethylformamide DMF Methylencholide Nogenanol   1,N-Dimethylformamide DMSO   1,Ethylenhol Cellosolve, Ethyl glycol 1.4   1,2-Dinethylbutane DMF   1,2-Dinethylbutane DMF   1,2-Dinethylbutane DMF <td< td=""><td>, , , , , , , , , , , , , , , , , , ,</td><td></td><td></td><td></td><td></td><td></td><td>-</td><td>147</td><td>294</td><td>2170</td><td></td></td<>	, , , , , , , , , , , , , , , , , , ,						-	147	294	2170	
SolventSynomy (S)SolventSynomy (S)AcetonitrileMethyl Qyanide, ACNEthylen glycol1,2-Ethanediol1-Butanoln-Butanol, Butyl AlcoholIsobutane2-Methylen ganol, Butyl Parkone2-Butanolse-Butyl acoholIsopropal (S)2-Propan(Alcohol)2-ButanoneMethyl Ethyl MethylIsopropal (S)2-Propan(Alcohol)2-ButanoneMethyl Methyl MethylIsopropal (S)Aceticaci (S)1,2-Dimethyl ManaMonglymeMethanolMethyl Methyl Methyl2,3-Dimethyl MutaneNonglyme2-Methyl Methyl MethylMethyl Methyl Methy		-				<i>*</i>	-	43.3	86.7	2170	regulated by the
1-Butanoln-Butanol, Butyl AlcoholJob urbor2-Methylpropane2-Butanolsec-Butyl alcoholIsopropanol2-Propanol, IPA2-ButanoneMethyl ethyl ketone, MEKIsopropyl AcetateAcetic acid isopropyl ester1,2-DimethoxyethaneMonoglymeMethanolMethylatono2,3-DimethylbutaneNeohexane2-MethylbutaneIsopropyl2,3-DimethylformamideDiff2-MethylpentaneIsohoraneN,N-DimethylformamideDMF2-MethylpentaneIsohexaneDimethysufoxideDMSO1-Pentanoln-Amyl alcohol2-EthoxyethanolDiebyl ethyl glycol1-PopanolTurbyl formamideEthyl etherDiebyl ether, EtherTethylofuranTurbyl forman	Solvent		Synonym(s	5)		Solvent	S	ynonym(s)			regulations referenced above.
2-Butanolsec-Butyl aconIsopropanol2-Prof A2-ButanoneMethyl tetone, MEKIsopropyl AcetateAcetic acid isopropyl ester1,2-DimethoxyethaneMonoglymeMethanolMethyl alcohol2,3-DimethylbutaneNeohexane2-MethylbutaneIsopentane2,3-DimethylbutaneDiisopropylMethylen chlorideDichloromethaneN,N-DimethylformamideDMF2-MethylpentaneIsobexaneDimethysufoxideDMSO1-Pentanoln-Amyl alcohol2-EthoxyethanolDiebyl ether, EtherTethylofuranTHF	Acetonitrile		Methyl Cya	nide, ACN		Ethylene glycol	1	,2-Ethanediol			
2-ButanoneMethyl ketone, MEKJoropyl AcetateAceta caid isopropyl ester1,2-DimethoxyethaneMonoglymeMethanolMethyl alcohol2,3-DimethylbutaneNeohexane2-MethylbutaneIsopentane2,3-DimethylbutaneDiisopropylMethylen chlorideDichloromethaneN,N-DimethylformamideDMF2-MethylpentaneIsohexaneDimethysufoxideDMSO1-Pentanoln-Amyl alcohol2-EthoxyethanolCellosolye, Ethyl glycol1-PopanolPropyl alcoholEthyl etherDiethyl ether, EtherTetrahydrofuranTHF	1-Butanol		n-Butanol,	Butyl Alco	hol		2	-Methylpropa	ne		
2-ButanoneMethyl ketone, MEKJoropyl AcetateAceta caid isopropyl ester1,2-DimethoxyethaneMonoglymeMethanolMethyl alcohol2,3-DimethylbutaneNeohexane2-MethylbutaneIsopentane2,3-DimethylbutaneDiisopropylMethylen chlorideDichloromethaneN,N-DimethylformamideDMF2-MethylpentaneIsohexaneDimethysufoxideDMSO1-Pentanoln-Amyl alcohol2-EthoxyethanolCellosolye, Ethyl glycol1-PopanolPropyl alcoholEthyl etherDiethyl ether, EtherTetrahydrofuranTHF	2-Butanol			5		Isopropanol					
1,2-DimethoxyethaneMonoglymeMethanolMethanol2,3-DimethylbutaneNeohexane2-MethylbutaneIsopentane2,3-DimethylbutaneDiisopropylMethylenchlorideDichloromethaneN,N-DimethylformanideDMF2-MethylpentaneIsohexaneDimethysufoxideDMSO1-Pentanoln-Amylalcohol2-EthoxyethanolCellosolye,Ethyl glycol1-PopanolPropylachoholEthyl etherDiethyl ether,EtherTetrahydrofuranTHF	2-Butanone		5		1EK					r	
2,3-DimethylbutaneDisopropylMethylene chlorideDichoromethaneN,N-DimethylformanideDMF2-MethylpentaneIsohexaneDimethysufoxideDMSO1-Pentanoln-Amylalcohol2-EthoxyethanolCellosolve, Ethyl glycol1-PropanolPropylalcoholEthyl etherDiethyl ether, EtherTetrahydrofuranTHF	1,2-Dimethoxyethane										
N,N-DimethylformamideDMF2-MethylpentaneIsohexaneDimethysufoxideDMSO1-Pentanoln-Amylalcohol2-EthoxyethanolCellosolve,Ethylglycol1-PropanolPropylalcoholEthyl etherDiethyl ether,EtherTetrahydrofuranTHF	2,3-Dimethylbutane		Neohexane			2-Methylbutane	Is	sopentane			
DimethysufoxideDMSO1-Pentanoln-Amyl alcohol2-EthoxyethanolCellosolve, Ethyl glycol1-PropanolPropyl alcoholEthyl etherDiethyl ether, EtherTetrahydrofuranTHF	2,3-Dimethylbutane		Diisopropy	1		Methylene chloride	D	Dichlorometha	ne		
2-EthoxyethanolCellosolve, Ethyl glycol1-PropanolPropyl alcoholEthyl etherDiethyl ether, EtherTetrahydrofuranTHF	N,N-Dimethylformamide		DMF			2-Methylpentane	Is	sohexane			
Ethyl ether Diethyl ether, Ether Tetrahydrofuran THF	Dimethysufoxide		DMSO			1-Pentanol	n	-Amyl alcoho	1		
	2-Ethoxyethanol		Cellosolve,	Ethyl glyc	ol	1-Propanol	Р	ropyl alcohol			
Ethul acetate EtOA c. Totramethylone sulfane Sulfalane	Ethyl ether		Diethyl eth	er, Ether		Tetrahydrofuran	Т	ΉF			
EIGAC IEITAILEINYIEITE SUITOILE SUITOILE SUITOILE	Ethyl acetate		EtOAc			Tetramethylene sulfone	S	ulfolane			
Ethyl benzene Phenylethane Xylene Dimethylbenzene	Ethyl benzene		Phenyletha	ne		Xylene	Ľ	Dimethylbenze	ene		

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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**Deviations from SOP:** 

None



# **CERTIFICATE OF ANALYSIS (SAMPLE ID: SA37292)**

Testing Location:	Customer ID: 2168	Order ID: OR10893	Sample Type: Primary
Arkansas	<b>River Valley Relief MIPS</b>	Lot Number:	Matrix: Edible
232 S. Broadview St.	5601 Old Greenwood Rd Suite C	M00065C13224948536	Mass: 1g
Greenbrier, AR 72058	Fort Smith, AR 72903	Production Run:	Date Collected: 03/04/2024
License: ADH 113	License: 00065C	P20240220GHEE08	Date Received: 03/04/2024
Cultivar (Strain) or Sample	Date Completed: 03/06/2024		

### Analysis Date/Time: 03/05/2024 1702 Analyst: KF

### **PESTICIDES PROFILE (SOP: SOP-PEST-001)**

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

<u>Pesticide</u>	<u>Result</u> (µg/g)	<u>LOD</u> (µg/g)	<u>LOQ</u> (µg/g)	<u>Action</u> <u>Level</u> (µg/g)	<u>Pesticide</u>	<u>Result</u> (µg/g)	<u>LOD</u> (µg/g)	<u>LOQ</u> (µg/g)	<u>Action</u> <u>Level</u> (µg/g)	
Abamectin (71751-41-2)	-	0.00970	0.0776	0.5	Kresoxim-methyl		0.00070	0.0770		
Acephate (30560-19-1)	-	0.00970	0.0776	0.4	(143390-89-0)	-	0.00970	0.0776	0.4	
Acequinocyl (57960-19-7)	-	0.00970	0.0776	2	Malathion (121-75-5)	-	0.00970	0.0776	0.2	-
Acetamiprid		0.00970	0.0776	0.2	Metalaxyl (57837-19-1)	-	0.00970	0.0776	0.2	
(135410-20-7)	-		0.0776	0.2	Methiocarb (2032-65-7)	-	0.00970	0.0776	0.2	<u>Color Key</u>
Aldicarb (116-06-3)	-	0.00970	0.0776	0.4	Methomyl (16752-77-5)	-	0.00970	0.0776	0.4	<b>RESULT &lt; AL</b>
Azoxystrobin (131860-33-8)	-	0.00970	0.0776	0.2	Methyl parathion (298-0-0)	-	0.00970	0.0776	0.2	<b>RESULT &gt; AL</b>
Bifenazate (149877-41-8)	-	0.00970	0.0776	0.2	MGK 264 (113-48-4)	-	0.00970	0.0776	0.2	"DET" detected less than LOQ
Bifenthrin (82657-04-3)	-	0.00970	0.0776	0.2	Myclobutanil	_	0.00970	0.0776	0.2	"-" not detected above
Boscalid (188425-85-6)	-	0.00970	0.0776	0.4	(88671-89-0)		0.00070	0.0776	0.5	LOD
Carbaryl (63-25-2)	-	0.00970	0.0776	0.2	Naled (300-76-5)	-	0.00970	0.0776	0.5	Permethrins measured as the
Carbofuran (1563-66-2)	-	0.00970	0.0776	0.2	Oxamyl (23135-22-0)	-	0.00970	0.0776	1	cumulative residue of the cis- and
Chlorantraniliprole (800008-45-7)	-	0.00970	0.0776	0.2	Paclobutrazol (76738-62-0)	-	0.00970	0.0776	0.4	<i>trans</i> - permethrin isomers.
Chlorfenapyr (122453-73-0)	-	0.00970	0.0776	1	Permethrins (52645-53-1)	-	0.00970	0.0776	0.2	Pyrethrins measured as the cumulative residue of the pyrethrin I, cinerin I, and jasmolin
Chlorpyrifos (2921-88-2)	-	0.00970	0.0776	0.2	Phosmet (732-11-6)	-	0.00970	0.0776	0.2	I isomers.
Clofentezine (74115-24-5)	-	0.00970	0.0776	0.2	Piperonyl butoxide (51-03-6)	-	0.00970	0.0776	2	Action levels are referenced from
Cyfluthrin (68359-37-5)	-	0.00970	0.0776	1	(51-03-6) Prallethrins (2331-36-9)	_	0.00970	0.0776	0.2	the
Cypermethrin (52315-07-8)	-	0.00970	0.0776	1	Propiconazole (60207-90-1))	_	0.00970	0.0776	0.2	State of Arkansas MMJ testing guidelines.
Daminozide (1596-84-5)	-	0.00970	0.0776	1	(00207-50-1)) Propoxur (114-26-1)		0.00970	0.0776	0.2	A value of "-" for the action level
DDVP (62-73-7)	-	0.00970	0.0776	0.1	Pyrethrins (8003-34-7)		0.00970	0.0776	1	means that analyte is not
Diazinon (333-41-5)	-	0.00970	0.0776	0.2	Pyridaben (96489-71-3)		0.00970	0.0776	0.2	currently regulated by the regulations referenced above.
Dimethoate (60-51-5)	-	0.00970	0.0776	0.2	Spinosad (168316-95-8)	-	0.00970	0.0776	0.2	regulations referenced above.
Ethoprophos (13194-48-4)	-	0.00970	0.0776	0.2	Spiromesifen (283594-90-1)	-	0.00970	0.0776	0.2	Disclaimer: This information is provided as a service and makes
Etofenprox (80844-07-1)	-	0.00970	0.0776	0.4	(283394-90-1) Spirotetramat					no claims of efficacy and/or safety of this product. Results are
Etoxazole (153233-91-1)	-	0.00970	0.0776	0.2	(203313-25-1)	-	0.00970	0.0776	0.2	applicable only for the sample(s)
Fenoxycarb (72490-01-8)	-	0.00970	0.0776	0.2	Spiroxamine		0.00970	0.0776	0.4	analyzed and for the specific analysis conducted. This report is
(E)-Fenpyroximate (134098-61-6)	-	0.00970	0.0776	0.4	(118134-30-8) Tebuconazole	-				for informational purposes only and should not be used to
Fipronil (120068-37-3)	-	0.00970	0.0776	0.4	(80443-41-0)	-	0.00970	0.0776	0.4	diagnose, treat, or prevent any
Flonicamid (158062-67-0)	-	0.00970	0.0776	1	Thiacloprid	_	0.00970	0.0776	0.2	medical-related symptoms. The statements and results herein have
Fludioxinil (131341-86-1)	-	0.00970	0.0776	0.4	(111988-49-9)					not been approved and/or
Hexythiazox (78587-05-0)	-	0.00970	0.0776	1	Thiamethoxam (153719-23-4)	-	0.00970	0.0776	0.2	endorsed by the FDA.
Imazalil (35554-44-0)	-	0.00970	0.0776	0.2	Trifloxystrobin					
Imidacloprid (138261-41-3)	-	0.00970	0.0776	0.4	(141517-21-7)	-	0.00970	0.0776	0.2	

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

<u>Pesticide</u> Cyfluthrin DDVP Ethoprophos <u>Synonym(s)</u> Baythroid Dichlorvos Prophos <u>Pesticide</u> Myclobutanil Naled Phosmet <u>Synonym(s)</u> Systhane Dibrom Imidan

Pesticide Propiconazole Propoxur <u>Synonym(s)</u> Tilt Baygon



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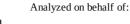


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Testing Location:	Customer ID: 2168	<b>Order ID:</b> OR10893	Sample Type: Primary
Arkansas	River Valley Relief MIPS	Lot Number:	Matrix: Edible
232 S. Broadview St.	5601 Old Greenwood Rd Suite C	M00065C13224948536	Mass: 1g
Greenbrier, AR 72058	Fort Smith, AR 72903	Production Run:	Date Collected: 03/04/2024
License: ADH 113	License: 00065C	P20240220GHEE08	Date Received: 03/04/2024
Cultivar (Strain) or Sample Description: ARV-Infused Ghee Butter			Date Completed: 03/06/2024

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

Analysis Date/T Analysis Date/T Analyst: KF	ime: 03/05/20242 ime: - (DMA)	2118 (ICP/OES)		thod: ICP/MS trument: Agilent 7500d	Deviations from SOP: ce None
<u>Heavy Metal</u>	<u>Result</u> (µg/kg)	<u>LOD</u> (µg/kg)	<u>LOQ</u> (µg/kg)	<u>Action Level</u> (µg/kg)	
Arsenic (As)	-	59.1	93.7	200	
Cadmium (Cd)	-	59.1	93.7	200	
Lead (Pb)	-	59.1	93.7	500	
Mercury (Hg)	-	59.1	93.7	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

### <u>Color Key</u>



"DET" detected less than LOQ

"-" not detected above LOD

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

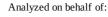
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Testing Location:	Customer ID: 2168	Sample ID: SA37292	Sample Type: Primary
Arkansas	<b>River Valley Relief MIPS</b>	Lot Number:	Matrix: Edible
232 S. Broadview St.	5601 Old Greenwood Rd Suite C	M00065C13224948536	Mass: 1g
Greenbrier, AR 72058	Fort Smith, AR 72903	Production Run:	Date Collected: 03/04/2024
License: ADA 05_H273	License: 00065C	P20240220GHEE08	Date Received: 03/04/2024
Cultivar (Strain) or Sample Description: ARV-Infused Ghee Butter			Date Completed: 03/06/2024

#### MICROBIOLOGICAL PROFILE (SOP: SOP-Micro-001)

Analysis Date/Time: 03/05/20 Analyst: PW		Iardy Diagnostics Compac <b>nt:</b> Thermo Incubator	tDry <b>Deviations from SOP:</b> None
Bacteria/Microbe	<u>Result</u> (CFU/g)	<u>Action Level</u> (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





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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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