

SUMMARY OF ANALYSIS (SAMPLE ID: SA38046)

Testing Location:	Customer ID: 2168	Order ID: OR11032	Sample Type: Primary
Arkansas	River Valley Relief MIPS	Lot Number:	Matrix: Edible
232 S. Broadview St.	5601 Old Greenwood Rd Suite C	M00065C13226937147	Mass: 1ea
Greenbrier, AR 72058	Fort Smith, AR 72903	Production Run:	Date Collected: 05/30/2024
License: ADH 113	License: 00065C	P20240528CAR26	Date Received: 05/30/2024
Cultivar (Strain) or Sample Description: ARV-Sea Salt Caramel Soft Chews			Date Completed: 06/01/2024

*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
Δ9-THC	0.227	2.27
Δ8-THC	0.0178	0.178
CBN	0.00579	0.0579
TOTAL CBD	-	-
TOTAL THC	0.227	2.27
TOTAL CANNABINOIDS	0.251	2.51

Terpenes (Top 5)	(%)	µg/g
Eucalyptol	0.000619	6.19
α-Bisabolol		
Camphene		
δ-3-Carene		
β-Caryophyllene		
TOTAL TERPENES	0.000619	6.19

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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www.FASTLaboratories.com

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



CERTIFICATE OF ANALYSIS (SAMPLE ID: SA38046)

Testing Location:	Customer ID: 2168	Order ID: OR11032	Sample Type: Primary
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License: ADH 113	License: 00065C	P20240528CAR26	Date Received: 05/30/2024

Cultivar (Strain) or Sample Description: ARV-Sea Salt Caramel Soft Chews **Date Completed:** 06/01/2024

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

Analysis Date/Time: 05/31/2024 1520

Method: HPLC/DAD

Moisture Content (%): -

Analyst: PW

Instrument: Agilent 1100

Water Activity (aw): -

<u>Cannabinoid</u>	<u>Result</u> (%)	<u>Result</u> (mg/g)	<u>LOD</u> (mg/g)	<u>LOQ</u> (mg/g)	<u>Result</u> (mg/ mL)	<u>Per</u> <u>Serving</u> (mg)	<u>Per</u> <u>Unit</u> (mg)
CBC	ND	ND	0.00221	0.00516	-	-	-
CBCA	ND	ND	0.00686	0.0160	-	-	-
CBD	ND	ND	0.0156	0.0364	-	-	-
CBDV	ND	ND	0.00574	0.0134	-	-	-
CBDVA	ND	ND	0.00667	0.0156	-	-	-
CBG	ND	ND	0.0101	0.0236	-	-	-
CBGA	ND	ND	0.0143	0.0169	-	-	-
CBL	ND	ND	0.0117	0.0273	-	-	-
CBN	0.00579	0.0579	0.00537	0.0125	-	0.243	4.86
CBNA	ND	ND	0.00580	0.0135	-	-	-
Δ9-THC	0.227	2.27	0.00644	0.0150	-	9.53	191
Δ8-THC	0.0178	0.178	0.0100	0.0234	-	0.748	15.0
THCA	ND	ND	0.00349	0.00816	-	-	-
THCV	ND	ND	0.00838	0.0195	-	-	-
THCVA	ND	ND	0.00268	0.00622	-	-	-
TOTAL	0.251	2.51			-	10.5	210
TOTAL CBC	-	-			-	-	-
TOTAL CBD	-	-			-	-	-
TOTAL CBDV	-	-			-	-	-
TOTAL CBG	-	-			-	-	-
TOTAL CBN	0.00579	0.0579			-	0.243	4.86
TOTAL THC	0.227	2.27			-	9.53	191
TOTAL							
THCV	-	-			-	-	-



SERVING MASS (g): 4.20
SERVINGS/UNIT: 20

"-" 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 = (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,
UM - Measurement Uncertainty

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License: ADH 113	License: 00065C	P20240528CAR26	Date Received: 05/30/2024
Cultivar (Strain) or Sample Description: ARV-Sea Salt Caramel Soft Chews			Date Completed: 06/01/2024

TERPENOID PROFILE

Analysis Date/Time: 05/31/2024 2344

Method: GC/MS

Deviations from SOP:

Analyst: KF

Instrument: Agilent 7890/5975

None

Terpene	Result (µg/g)	Result (%)
α-Bisabolol	ND	-
Camphene	ND	-
δ-3-Carene	ND	-
β-Caryophyllene	ND	-
Caryophyllene oxide	ND	-
p-Cymene	ND	-
Eucalyptol	6.19	0.000619
Geraniol	ND	-
Guaiol	ND	-
α-Humulene	ND	-
Isopulegol	ND	-
d-Limonene	ND	-
Linalool	ND	-
β-Myrcene	ND	-
cis-Nerolidol	ND	-
trans-Nerolidol	ND	-
α-Ocimene	ND	-
β-Ocimene	ND	-
α-Pinene	ND	-
β-Pinene	ND	-
α-Terpinene	ND	-
γ-Terpinene	ND	-
Terpinolene	ND	-



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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TOTAL 6.19 0.000619 **Reporting Limit (µg/g):** 4.85

"-" Not detected above LOD.

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CERTIFICATE OF ANALYSIS (SAMPLE ID: SA38046)

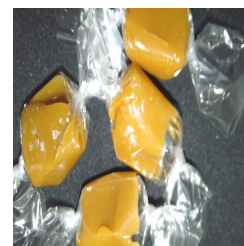
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Cultivar (Strain) or Sample Description: ARV-Sea Salt Caramel Soft Chews **Date Completed:** 06/01/2024

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

Analysis Date/Time: 05/30/2024 1931 **Method:** HS/GC/MS **Deviations from SOP:**
Analyst: KF **Instrument:** Agilent 7890/5975 **None**

<u>Solvent</u>	<u>Result</u> (µg/g)	<u>LOD</u> (µg/g)	<u>LOQ</u> (µg/g)	<u>Action Level</u> (µg/g)	<u>Solvent</u>	<u>Result</u> (µg/g)	<u>LOD</u> (µg/g)	<u>LOQ</u> (µg/g)	<u>Action Level</u> (µg/g)
Acetone (67-64-1)	-	25.5	51.1	5000	n-Heptane (142-82-5)	-	25.5	51.1	5000
Acetonitrile (75-5-8)	-	25.5	51.1	410	n-Hexane (110-54-3)	-	8.94	17.9	290
Benzene (71-43-2)	-	0.255	0.511	2	Isobutane (75-28-5)	-	25.5	51.1	5000
n-Butane (106-97-2)	-	25.5	51.1	5000	Isopropanol (67-63-0)	-	25.5	51.1	5000
1-Butanol (71-36-3)	-	25.5	51.1	5000	Isopropyl acetate (108-21-4)	-	25.5	51.1	5000
2-Butanol (78-92-2)	-	25.5	51.1	5000	Isopropyl benzene (98-82-8)	-	2.55	5.11	70
2-Butanone (78-93-3)	-	25.5	51.1	5000	Methanol (67-56-1)	-	25.5	51.1	3000
Cyclohexane (110-82-7)	-	25.5	51.1	3880	2-Methylbutane (78-78-4)	-	25.5	51.1	5000
1,2-Dimethoxyethane (110-71-4)	-	2.55	5.11	100	Methylene chloride (75-9-2)	-	25.5	51.1	600
N,N-Dimethylacetamide (127-19-5)	-	25.5	51.1	1090	2-Methylpentane (107-83-5)	-	8.94	17.9	290
2,2-Dimethylbutane (75-83-2)	-	8.94	17.9	290	3-Methylpentane (96-10-0)	-	8.94	17.9	290
2,3-Dimethylbutane (79-29-8)	-	8.94	17.9	290	n-Pentane (109-66-0)	-	25.5	51.1	5000
N,N-Dimethylformamide (68-12-2)	-	25.5	51.1	880	1-Pentanol (71-41-0)	-	25.5	51.1	5000
Dimethylsulfoxide (67-68-5)	-	25.5	51.1	5000	n-Propane (74-98-6)	-	25.5	51.1	5000
1,4-Dioxane (123-91-1)	-	25.5	51.1	380	1-Propanol (71-23-8)	-	25.5	51.1	5000
Ethanol (64-17-5)	-	25.5	51.1	5000	Pyridine (110-86-1)	-	8.94	17.9	200
2-Ethoxyethanol (110-80-5)	-	8.94	17.9	160	Tetrahydrofuran (109-99-9)	-	25.5	51.1	720
Ethyl ether (60-29-7)	-	25.5	51.1	5000	Tetramethylene sulfone (126-33-0)	-	8.94	17.9	160
Ethyl acetate (141-78-6)	-	25.5	51.1	5000	Toluene (108-88-3)	-	25.5	51.1	890
Ethyl benzene (100-41-4)	-	25.5	51.1	2170	o-Xylene (95-47-6)	-	25.5	51.1	2170
Ethylene glycol (107-21-1)	-	25.5	51.1	620	m,p-Xylene (108-38-3 or 106-42-3)	-	25.5	51.1	2170
Ethylene oxide (75-21-8)	-	2.55	5.11	50	Xylenes* (1330-20-7)	-	43.3	86.7	2170



Color Key

RESULT < AL

RESULT > AL

"DET" detected less than LOQ

"-" not detected above LOD

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

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<u>Solvent</u>	<u>Synonym(s)</u>	<u>Solvent</u>	<u>Synonym(s)</u>
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-Sea Salt Caramel Soft Chews

Date Completed: 06/01/2024

PESTICIDES PROFILE (SOP: SOP-PEST-001)

Analysis Date/Time: 05/31/2024 1601

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)	Pesticide	Result (µg/g)	LOD (µg/g)	LOQ (µg/g)	Action Level (µg/g)
Abamectin (71751-41-2)	-	0.00969	0.0775	0.5	Kresoxim-methyl (143390-89-0)	-	0.00969	0.0775	0.4
Acephate (30560-19-1)	-	0.00969	0.0775	0.4	Malathion (121-75-5)	-	0.00969	0.0775	0.2
Acetaminophen (57960-19-7)	-	0.00969	0.0775	2	Metalaxyl (57837-19-1)	-	0.00969	0.0775	0.2
Acetamiprid (135410-20-7)	-	0.00969	0.0775	0.2	Methiocarb (2032-65-7)	-	0.00969	0.0775	0.2
Aldicarb (116-06-3)	-	0.00969	0.0775	0.4	Methomyl (16752-77-5)	-	0.00969	0.0775	0.4
Azoxystrobin (131860-33-8)	-	0.00969	0.0775	0.2	Methyl parathion (298-0-0)	-	0.00969	0.0775	0.2
Bifenazate (149877-41-8)	-	0.00969	0.0775	0.2	MGK 264 (113-48-4)	-	0.00969	0.0775	0.2
Bifenthrin (82657-04-3)	-	0.00969	0.0775	0.2	Myclobutanil (88671-89-0)	-	0.00969	0.0775	0.2
Boscalid (188425-85-6)	-	0.00969	0.0775	0.4	Naled (300-76-5)	-	0.00969	0.0775	0.5
Carbaryl (63-25-2)	-	0.00969	0.0775	0.2	Oxamyl (23135-22-0)	-	0.00969	0.0775	1
Carbofuran (1563-66-2)	-	0.00969	0.0775	0.2	Paclobutrazol (76738-62-0)	-	0.00969	0.0775	0.4
Chlorantraniliprole (800008-45-7)	-	0.00969	0.0775	0.2	Permethrins (52645-53-1)	-	0.00969	0.0775	0.2
Chlorfenapyr (122453-73-0)	-	0.00969	0.0775	1	Phosmet (732-11-6)	-	0.00969	0.0775	0.2
Chlorpyrifos (2921-88-2)	-	0.00969	0.0775	0.2	Piperonyl butoxide (51-03-6)	-	0.00969	0.0775	2
Clofentezine (74115-24-5)	-	0.00969	0.0775	0.2	Prallethrins (2331-36-9)	-	0.00969	0.0775	0.2
Cyfluthrin (68359-37-5)	-	0.00969	0.0775	1	Propiconazole (60207-90-1)	-	0.00969	0.0775	0.4
Cypermethrin (52315-07-8)	-	0.00969	0.0775	1	Propoxur (114-26-1)	-	0.00969	0.0775	0.2
Daminozide (1596-84-5)	-	0.00969	0.0775	1	Pyrethrins (8003-34-7)	-	0.00969	0.0775	1
DDVP (62-73-7)	-	0.00969	0.0775	0.1	Pyridaben (96489-71-3)	-	0.00969	0.0775	0.2
Diazinon (333-41-5)	-	0.00969	0.0775	0.2	Spinosad (168316-95-8)	-	0.00969	0.0775	0.2
Dimethoate (60-51-5)	-	0.00969	0.0775	0.2	Spiromesifen (283594-90-1)	-	0.00969	0.0775	0.2
Ethoprophos (13194-48-4)	-	0.00969	0.0775	0.2	Spirotetramat (203313-25-1)	-	0.00969	0.0775	0.2
Etofenprox (80844-07-1)	-	0.00969	0.0775	0.4	Spiroxamine (118134-30-8)	-	0.00969	0.0775	0.4
Etiozazole (153233-91-1)	-	0.00969	0.0775	0.2	Tebuconazole (80443-41-0)	-	0.00969	0.0775	0.4
Fenoxycarb (72490-01-8)	-	0.00969	0.0775	0.2	Thiacloprid (111988-49-9)	-	0.00969	0.0775	0.2
(E)-Fenpyroximate (134098-61-6)	-	0.00969	0.0775	0.4	Thiamethoxam (153719-23-4)	-	0.00969	0.0775	0.2
Fipronil (120068-37-3)	-	0.00969	0.0775	0.4	Trifloxystrobin (141517-21-7)	-	0.00969	0.0775	0.2
Flonicamid (158062-67-0)	-	0.00969	0.0775	1					
Fludioxinil (131341-86-1)	-	0.00969	0.0775	0.4					
Hexythiazox (78587-05-0)	-	0.00969	0.0775	1					
Imazalil (35554-44-0)	-	0.00969	0.0775	0.2					
Imidacloprid (138261-41-3)	-	0.00969	0.0775	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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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	Sythane	Propiconazole	Tilt
DDVP	Dichlorvos	Naled	Dibrom	Propoxur	Baygon
Ethoprophos	Prophos	Phosmet	Imidan		

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Cultivar (Strain) or Sample Description: ARV-Sea Salt Caramel Soft Chews			Date Completed: 06/01/2024

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

Analysis Date/Time: 05/31/2024 1852 (ICP/OES)	Method: ICP/MS	Deviations from SOP:
Analysis Date/Time: - (DMA)	Instrument: Agilent 7500ce	None
Analyst: KF		

Heavy Metal	Result (µg/kg)	LOD (µg/kg)	LOQ (µg/kg)	Action Level (µg/kg)
Arsenic (As)	-	58.1	92.0	200
Cadmium (Cd)	-	58.1	92.0	200
Lead (Pb)	-	58.1	92.0	500
Mercury (Hg)	-	58.1	92.0	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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www.FASTLaboratories.com

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



CERTIFICATE OF ANALYSIS (SAMPLE ID: SA38046)

Testing Location:	Customer ID: 2168	Sample ID: SA38046	Sample Type: Primary
Arkansas	River Valley Relief MIPS	Lot Number:	Matrix: Edible
232 S. Broadview St.	5601 Old Greenwood Rd Suite C	M00065C13226937147	Mass: 1ea
Greenbrier, AR 72058	Fort Smith, AR 72903	Production Run:	Date Collected: 05/30/2024
License: ADA 05_H273	License: 00065C	P20240528CAR26	Date Received: 05/30/2024
Cultivar (Strain) or Sample Description: ARV-Sea Salt Caramel Soft Chews			Date Completed: 06/01/2024

MICROBIOLOGICAL PROFILE (SOP: SOP-Micro-001)

Analysis Date/Time: 06/01/2024 0903	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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