

SUMMARY OF ANALYSIS (SAMPLE ID: SA35905)

Testing Location:	Customer ID: 2168	Order ID: OR10589	Sample Type: Primary
Arkansas	River Valley Relief MIPS	Lot Number:	Matrix: Edible
232 S. Broadview St.	5601 Old Greenwood Rd Suite C	M00065C13229673516	Mass: 10PIECES
Greenbrier, AR 72058	Fort Smith, AR 72903	Production Run:	Date Collected: 08/28/2023
License: ADH 113	License: 00065C	P20230822MAN15	Date Received: 08/28/2023
Cultivar (Strain) or Sample Description: AR-Wana Gummies Mango Sativa			Date Completed: 08/30/2023

*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	0.198	1.98
CBD	0.00655	0.0655
CBG	0.00607	0.0607
TOTAL CBD	0.00655	0.0655
TOTAL THC	0.198	1.98
TOTAL CANNABINOIDS	0.211	2.11

Terpenes (Top 5)	(%)	µg/g
α-Pinene	0.00137	13.7
α-Bisabolol		
Camphene		
δ-3-Carene		
β-Caryophyllene		
TOTAL TERPENES	0.00137	13.7

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



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Cultivar (Strain) or Sample Description: AR-Wana Gummies Mango Sativa			Date Completed: 08/30/2023

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

Analysis Date/Time: 08/29/2023 1524

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	0.00216	0.00504	-	-	-
CBCA	ND	ND	0.00671	0.0157	-	-	-
CBD	0.00655	0.0655	0.0152	0.0356	-	0.309	3.09
CBDa	ND	ND	0.00561	0.0131	-	-	-
CBDV	ND	ND	0.00244	0.00570	-	-	-
CBDVA	ND	ND	0.00652	0.0152	-	-	-
CBG	0.00607	0.0607	0.00989	0.0231	-	0.286	2.86
CBGA	ND	ND	0.0140	0.0165	-	-	-
CBL	ND	ND	0.0114	0.0267	-	-	-
CBN	ND	ND	0.00525	0.0123	-	-	-
CBNA	ND	ND	0.00567	0.0132	-	-	-
Δ9-THC	0.198	1.98	0.00629	0.0147	-	9.33	93.3
Δ8-THC	ND	ND	0.00982	0.0229	-	-	-
THCA	ND	ND	0.00341	0.00798	-	-	-
THCV	ND	ND	0.00819	0.0191	-	-	-
THCVA	ND	ND	0.00262	0.00608	-	-	-
TOTAL	0.211	2.11			-	9.93	99.3
TOTAL CBC	-	-			-	-	-
TOTAL CBD	0.00655	0.0655			-	0.309	3.09
TOTAL CBDV	-	-			-	-	-
TOTAL CBG	0.00607	0.0607			-	0.286	2.86
TOTAL CBN	-	-			-	-	-
TOTAL THC	0.198	1.98			-	9.33	93.3
TOTAL THCv	-	-			-	-	-



SERVING MASS (g): 4.71
SERVINGS/UNIT: 10

"-" 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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TERPENOID PROFILE

Analysis Date/Time: 08/29/2023 1724

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	ND	-
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	13.7	0.00137
β-Pinene	ND	-
α-Terpinene	ND	-
γ-Terpinene	ND	-
Terpinolene	ND	-
TOTAL	13.7	0.00137



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): 6.84

"-" Not detected above LOD.

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Cultivar (Strain) or Sample Description: AR-Wana Gummies Mango Sativa **Date Completed:** 08/30/2023

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

Analysis Date/Time: 08/30/2023 0155 **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)	-	133	265	5000	n-Heptane (142-82-5)	-	133	265	5000
Acetonitrile (75-5-8)	-	133	265	410	n-Hexane (110-54-3)	-	46.4	92.9	290
Benzene (71-43-2)	-	1.33	2.65	2	Isobutane (75-28-5)	-	133	265	5000
n-Butane (106-97-2)	-	133	265	5000	Isopropanol (67-63-0)	-	133	265	5000
1-Butanol (71-36-3)	-	133	265	5000	Isopropyl acetate (108-21-4)	-	133	265	5000
2-Butanol (78-92-2)	-	133	265	5000	Isopropyl benzene (98-82-8)	-	13.3	26.5	70
2-Butanone (78-93-3)	-	133	265	5000	Methanol (67-56-1)	-	133	265	3000
Cyclohexane (110-82-7)	-	133	265	3880	2-Methylbutane (78-78-4)	-	133	265	5000
1,2-Dimethoxyethane (110-71-4)	-	13.3	26.5	100	Methylene chloride (75-9-2)	-	133	265	600
N,N-Dimethylacetamide (127-19-5)	-	133	265	1090	2-Methylpentane (107-83-5)	-	46.4	92.9	290
2,2-Dimethylbutane (75-83-2)	-	46.4	92.9	290	3-Methylpentane (96-10-0)	-	46.4	92.9	290
2,3-Dimethylbutane (79-29-8)	-	46.4	92.9	290	n-Pentane (109-66-0)	-	133	265	5000
N,N-Dimethylformamide (68-12-2)	-	133	265	880	1-Pentanol (71-41-0)	-	133	265	5000
Dimethylsulfoxide (67-68-5)	-	133	265	5000	n-Propane (74-98-6)	-	133	265	5000
1,4-Dioxane (123-91-1)	-	133	265	380	1-Propanol (71-23-8)	-	133	265	5000
Ethanol (64-17-5)	-	133	265	5000	Pyridine (110-86-1)	-	46.4	92.9	200
2-Ethoxyethanol (110-80-5)	-	46.4	92.9	160	Tetrahydrofuran (109-99-9)	-	133	265	720
Ethyl ether (60-29-7)	-	133	265	5000	Tetramethylene sulfone (126-33-0)	-	46.4	92.9	160
Ethyl acetate (141-78-6)	-	133	265	5000	Toluene (108-88-3)	-	133	265	890
Ethyl benzene (100-41-4)	-	133	265	2170	o-Xylene (95-47-6)	-	133	265	2170
Ethylene glycol (107-21-1)	-	133	265	620	m,p-Xylene (108-38-3 or 106-42-3)	-	133	265	2170
Ethylene oxide (75-21-8)	-	13.3	26.5	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

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

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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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PESTICIDES PROFILE (SOP: SOP-PEST-001)

Analysis Date/Time: 08/29/2023 1532

Analyst: KF

Method: LC/MS/MS

Instrument: Shimadzu LC-8050

Deviations from SOP:

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)	-	0.00948	0.0758	0.5	Kresoxim-methyl (143390-89-0)	-	0.00948	0.0758	0.4
Acephate (30560-19-1)	-	0.00948	0.0758	0.4	Malathion (121-75-5)	-	0.00948	0.0758	0.2
Acequinocyl (57960-19-7)	-	0.00948	0.0758	2	Metalaxyl (57837-19-1)	-	0.00948	0.0758	0.2
Acetamiprid (135410-20-7)	-	0.00948	0.0758	0.2	Methiocarb (2032-65-7)	-	0.00948	0.0758	0.2
Aldicarb (116-06-3)	-	0.00948	0.0758	0.4	Methomyl (16752-77-5)	-	0.00948	0.0758	0.4
Azoxystrobin (131860-33-8)	-	0.00948	0.0758	0.2	Methyl parathion (298-0-0)	-	0.00948	0.0758	0.2
Bifenazate (149877-41-8)	-	0.00948	0.0758	0.2	MGK 264 (113-48-4)	-	0.00948	0.0758	0.2
Bifenthrin (82657-04-3)	-	0.00948	0.0758	0.2	Myclobutanil (88671-89-0)	-	0.00948	0.0758	0.2
Boscalid (188425-85-6)	-	0.00948	0.0758	0.4	Naled (300-76-5)	-	0.00948	0.0758	0.5
Carbaryl (63-25-2)	-	0.00948	0.0758	0.2	Oxamyl (23135-22-0)	-	0.00948	0.0758	1
Carbofuran (1563-66-2)	-	0.00948	0.0758	0.2	Paclobutrazol (76738-62-0)	-	0.00948	0.0758	0.4
Chlorantraniliprole (800008-45-7)	-	0.00948	0.0758	0.2	Permethrins (52645-53-1)	-	0.00948	0.0758	0.2
Chlorfenapyr (122453-73-0)	-	0.00948	0.0758	1	Phosmet (732-11-6)	-	0.00948	0.0758	0.2
Chlorpyrifos (2921-88-2)	-	0.00948	0.0758	0.2	Piperonyl butoxide (51-03-6)	-	0.00948	0.0758	2
Clofentezine (74115-24-5)	-	0.00948	0.0758	0.2	Prallethrins (2331-36-9)	-	0.00948	0.0758	0.2
Cyfluthrin (68359-37-5)	-	0.00948	0.0758	1	Propiconazole (60207-90-1)	-	0.00948	0.0758	0.4
Cypermethrin (52315-07-8)	-	0.00948	0.0758	1	Propoxur (114-26-1)	-	0.00948	0.0758	0.2
Daminozide (1596-84-5)	-	0.00948	0.0758	1	Pyrethrins (8003-34-7)	-	0.00948	0.0758	1
DDVP (62-73-7)	-	0.00948	0.0758	0.1	Pyridaben (96489-71-3)	-	0.00948	0.0758	0.2
Diazinon (333-41-5)	-	0.00948	0.0758	0.2	Spinosad (168316-95-8)	-	0.00948	0.0758	0.2
Dimethoate (60-51-5)	-	0.00948	0.0758	0.2	Spiromesifen (283594-90-1)	-	0.00948	0.0758	0.2
Ethoprophos (13194-48-4)	-	0.00948	0.0758	0.2	Spirotetramat (203313-25-1)	-	0.00948	0.0758	0.2
Etofenprox (80844-07-1)	-	0.00948	0.0758	0.4	Spiroxamine (118134-30-8)	-	0.00948	0.0758	0.4
Etiozazole (153233-91-1)	-	0.00948	0.0758	0.2	Tebuconazole (80443-41-0)	-	0.00948	0.0758	0.4
Fenoxycarb (72490-01-8)	-	0.00948	0.0758	0.2	Thiacloprid (111988-49-9)	-	0.00948	0.0758	0.2
(E)-Fenpyroximate (134098-61-6)	-	0.00948	0.0758	0.4	Thiamethoxam (153719-23-4)	-	0.00948	0.0758	0.2
Fipronil (120068-37-3)	-	0.00948	0.0758	0.4	Trifloxystrobin (141517-21-7)	-	0.00948	0.0758	0.2
Flonicamid (158062-67-0)	-	0.00948	0.0758	1					
Fludioxinil (131341-86-1)	-	0.00948	0.0758	0.4					
Hexythiazox (78587-05-0)	-	0.00948	0.0758	1					
Imazalil (35554-44-0)	-	0.00948	0.0758	0.2					
Imidacloprid (138261-41-3)	-	0.00948	0.0758	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	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: 08/29/2023 1823 (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)	119	58.0	91.9	200
Cadmium (Cd)	-	58.0	91.9	200
Lead (Pb)	-	58.0	91.9	500
Mercury (Hg)	-	58.0	91.9	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

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

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CERTIFICATE OF ANALYSIS (SAMPLE ID: SA35905)

Testing Location:	Customer ID: 2168	Sample ID: SA35905	Sample Type: Primary
Arkansas	River Valley Relief MIPS	Lot Number:	Matrix: Edible
232 S. Broadview St.	5601 Old Greenwood Rd Suite C	M00065C13229673516	Mass: 10PIECES
Greenbrier, AR 72058	Fort Smith, AR 72903	Production Run:	Date Collected: 08/28/2023
License: ADA 05_H273	License: 00065C	P20230822MAN15	Date Received: 08/28/2023
Cultivar (Strain) or Sample Description: AR-Wana Gummies Mango Sativa			Date Completed: 08/30/2023

MICROBIOLOGICAL PROFILE (SOP: SOP-Micro-001)

Analysis Date/Time: 08/30/2023 0959	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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Kyle W. Felling
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Laboratory Director

