

SUMMARY OF ANALYSIS (SAMPLE ID: SA35961)

Testing Location:	Customer ID: 2168	Order ID: OR10599	Sample Type: Primary
Arkansas	River Valley Relief MIPS	Lot Number:	Matrix: Edible
232 S. Broadview St.	5601 Old Greenwood Rd Suite C	M00065C13221457202	Mass: 10pieces
Greenbrier, AR 72058	Fort Smith, AR 72903	Production Run:	Date Collected: 09/05/2023
License: ADH 113	License: 00065C	P20230829BLU15	Date Received: 09/05/2023
Cultivar (Strain) or Sample Description: AR-Wana Gummies Blueberry Indica			Date Completed: 09/08/2023

*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	0.197	1.97
CBD	0.0155	0.155
CBG	0.00571	0.0571
TOTAL CBD	0.0155	0.155
TOTAL THC	0.197	1.97
TOTAL CANNABINOIDS	0.218	2.18

Terpenes (Top 5)	(%)	µg/g
cis-Nerolidol	0.0126	126
Guaiol	0.00659	65.9
trans-Nerolidol	0.00631	63.1
α-Bisabolol		
Camphene		
TOTAL TERPENES	0.0255	255

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



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License: ADH 113	License: 00065C	P20230829BLU15	Date Received: 09/05/2023

Cultivar (Strain) or Sample Description: AR-Wana Gummies Blueberry Indica **Date Completed:** 09/08/2023

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

Analysis Date/Time: 09/06/2023 1431

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	0.00225	0.00525	-	-	-
CBCA	ND	ND	0.00699	0.0163	-	-	-
CBD	0.0155	0.155	0.0159	0.0370	-	0.748	7.48
CBDa	ND	ND	0.00584	0.0136	-	-	-
CBDV	ND	ND	0.00255	0.00594	-	-	-
CBDVA	ND	ND	0.00679	0.0158	-	-	-
CBG	0.00571	0.0571	0.0103	0.0241	-	0.276	2.76
CBGA	ND	ND	0.0146	0.0172	-	-	-
CBL	ND	ND	0.0119	0.0278	-	-	-
CBN	ND	ND	0.00547	0.0128	-	-	-
CBNA	ND	ND	0.00590	0.0138	-	-	-
Δ9-THC	0.197	1.97	0.00655	0.0153	-	9.52	95.2
Δ8-THC	ND	ND	0.0102	0.0239	-	-	-
THCA	ND	ND	0.00355	0.00831	-	-	-
THCV	ND	ND	0.00852	0.0199	-	-	-
THCVA	ND	ND	0.00272	0.00633	-	-	-
TOTAL	0.218	2.18			-	10.5	105
TOTAL CBC	-	-			-	-	-
TOTAL CBD	0.0155	0.155			-	0.748	7.48
TOTAL CBDV	-	-			-	-	-
TOTAL CBG	0.00571	0.0571			-	0.276	2.76
TOTAL CBN	-	-			-	-	-
TOTAL THC	0.197	1.97			-	9.52	95.2
TOTAL THCv	-	-			-	-	-



SERVING MASS (g): 4.83
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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Cultivar (Strain) or Sample Description: AR-Wana Gummies Blueberry Indica			Date Completed: 09/08/2023

TERPENOID PROFILE

Analysis Date/Time: 09/06/2023 1714

Analyst: KF

Method: GC/MS

Instrument: Agilent 7890/5975

Deviations from SOP:

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	65.9	0.00659	
α-Humulene	ND	-	
Isopulegol	ND	-	
d-Limonene	ND	-	
Linalool	ND	-	
β-Myrcene	ND	-	
cis-Nerolidol	126	0.0126	
trans-Nerolidol	63.1	0.00631	
α-Ocimene	ND	-	
β-Ocimene	ND	-	
α-Pinene	ND	-	
β-Pinene	ND	-	
α-Terpinene	ND	-	
γ-Terpinene	ND	-	
Terpinolene	ND	-	
TOTAL	255	0.0255	



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): 7.17

"-" Not detected above LOD.

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

Analysis Date/Time: 09/07/2023 0034	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)	-	154	308	5000	n-Heptane (142-82-5)	-	154	308	5000
Acetonitrile (75-5-8)	-	154	308	410	n-Hexane (110-54-3)	-	53.9	108	290
Benzene (71-43-2)	-	1.54	3.08	2	Isobutane (75-28-5)	-	154	308	5000
n-Butane (106-97-2)	-	154	308	5000	Isopropanol (67-63-0)	-	154	308	5000
1-Butanol (71-36-3)	-	154	308	5000	Isopropyl acetate (108-21-4)	-	154	308	5000
2-Butanol (78-92-2)	-	154	308	5000	Isopropyl benzene (98-82-8)	-	15.4	30.8	70
2-Butanone (78-93-3)	-	154	308	5000	Methanol (67-56-1)	-	154	308	3000
Cyclohexane (110-82-7)	-	154	308	3880	2-Methylbutane (78-78-4)	-	154	308	5000
1,2-Dimethoxyethane (110-71-4)	-	15.4	30.8	100	Methylene chloride (75-9-2)	-	154	308	600
N,N-Dimethylacetamide (127-19-5)	-	154	308	1090	2-Methylpentane (107-83-5)	-	53.9	108	290
2,2-Dimethylbutane (75-83-2)	-	53.9	108	290	3-Methylpentane (96-10-0)	-	53.9	108	290
2,3-Dimethylbutane (79-29-8)	-	53.9	108	290	n-Pentane (109-66-0)	-	154	308	5000
N,N-Dimethylformamide (68-12-2)	-	154	308	880	1-Pentanol (71-41-0)	-	154	308	5000
Dimethylsulfoxide (67-68-5)	-	154	308	5000	n-Propane (74-98-6)	-	154	308	5000
1,4-Dioxane (123-91-1)	-	154	308	380	1-Propanol (71-23-8)	-	154	308	5000
Ethanol (64-17-5)	-	154	308	5000	Pyridine (110-86-1)	-	53.9	108	200
2-Ethoxyethanol (110-80-5)	-	53.9	108	160	Tetrahydrofuran (109-99-9)	-	154	308	720
Ethyl ether (60-29-7)	-	154	308	5000	Tetramethylene sulfone (126-33-0)	-	53.9	108	160
Ethyl acetate (141-78-6)	-	154	308	5000	Toluene (108-88-3)	-	154	308	890
Ethyl benzene (100-41-4)	-	154	308	2170	o-Xylene (95-47-6)	-	154	308	2170
Ethylene glycol (107-21-1)	-	154	308	620	m,p-Xylene (108-38-3 or 106-42-3)	-	154	308	2170
Ethylene oxide (75-21-8)	-	15.4	30.8	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.

A value of "-" for the action level means that analyte is not currently regulated by the regulations referenced above.

<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: 09/06/2023 1410

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)	-	0.00989	0.0792	0.5	Kresoxim-methyl (143390-89-0)	-	0.00989	0.0792	0.4
Acephate (30560-19-1)	-	0.00989	0.0792	0.4	Malathion (121-75-5)	-	0.00989	0.0792	0.2
Acetaminophen (57960-19-7)	-	0.00989	0.0792	2	Metalaxyl (57837-19-1)	-	0.00989	0.0792	0.2
Acetamiprid (135410-20-7)	-	0.00989	0.0792	0.2	Methiocarb (2032-65-7)	-	0.00989	0.0792	0.2
Aldicarb (116-06-3)	-	0.00989	0.0792	0.4	Methomyl (16752-77-5)	-	0.00989	0.0792	0.4
Azoxystrobin (131860-33-8)	-	0.00989	0.0792	0.2	Methyl parathion (298-0-0)	-	0.00989	0.0792	0.2
Bifenazate (149877-41-8)	-	0.00989	0.0792	0.2	MGK 264 (113-48-4)	-	0.00989	0.0792	0.2
Bifenthrin (82657-04-3)	-	0.00989	0.0792	0.2	Myclobutanil (88671-89-0)	-	0.00989	0.0792	0.2
Boscalid (188425-85-6)	-	0.00989	0.0792	0.4	Naled (300-76-5)	-	0.00989	0.0792	0.5
Carbaryl (63-25-2)	-	0.00989	0.0792	0.2	Oxamyl (23135-22-0)	-	0.00989	0.0792	1
Carbofuran (1563-66-2)	-	0.00989	0.0792	0.2	Paclobutrazol (76738-62-0)	-	0.00989	0.0792	0.4
Chlorantraniliprole (800008-45-7)	-	0.00989	0.0792	0.2	Permethrins (52645-53-1)	-	0.00989	0.0792	0.2
Chlorfenapyr (122453-73-0)	-	0.00989	0.0792	1	Phosmet (732-11-6)	-	0.00989	0.0792	0.2
Chlorpyrifos (2921-88-2)	-	0.00989	0.0792	0.2	Piperonyl butoxide (51-03-6)	-	0.00989	0.0792	2
Clofentezine (74115-24-5)	-	0.00989	0.0792	0.2	Prallethrins (2331-36-9)	-	0.00989	0.0792	0.2
Cyfluthrin (68359-37-5)	-	0.00989	0.0792	1	Propiconazole (60207-90-1)	-	0.00989	0.0792	0.4
Cypermethrin (52315-07-8)	-	0.00989	0.0792	1	Propoxur (114-26-1)	-	0.00989	0.0792	0.2
Daminozide (1596-84-5)	-	0.00989	0.0792	1	Pyrethrins (8003-34-7)	-	0.00989	0.0792	1
DDVP (62-73-7)	-	0.00989	0.0792	0.1	Pyridaben (96489-71-3)	-	0.00989	0.0792	0.2
Diazinon (333-41-5)	-	0.00989	0.0792	0.2	Spinosad (168316-95-8)	-	0.00989	0.0792	0.2
Dimethoate (60-51-5)	-	0.00989	0.0792	0.2	Spiromesifen (283594-90-1)	-	0.00989	0.0792	0.2
Ethoprophos (13194-48-4)	-	0.00989	0.0792	0.2	Spirotetramat (203313-25-1)	-	0.00989	0.0792	0.2
Etofenprox (80844-07-1)	-	0.00989	0.0792	0.4	Spiroxamine (118134-30-8)	-	0.00989	0.0792	0.4
Etiozazole (153233-91-1)	-	0.00989	0.0792	0.2	Tebuconazole (80443-41-0)	-	0.00989	0.0792	0.4
Fenoxycarb (72490-01-8)	-	0.00989	0.0792	0.2	Thiacloprid (111988-49-9)	-	0.00989	0.0792	0.2
(E)-Fenpyroximate (134098-61-6)	-	0.00989	0.0792	0.4	Thiamethoxam (153719-23-4)	-	0.00989	0.0792	0.2
Fipronil (120068-37-3)	-	0.00989	0.0792	0.4	Trifloxystrobin (141517-21-7)	-	0.00989	0.0792	0.2
Flonicamid (158062-67-0)	-	0.00989	0.0792	1					
Fludioxinil (131341-86-1)	-	0.00989	0.0792	0.4					
Hexythiazox (78587-05-0)	-	0.00989	0.0792	1					
Imazalil (35554-44-0)	-	0.00989	0.0792	0.2					
Imidacloprid (138261-41-3)	-	0.00989	0.0792	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: 09/06/2023 1806 (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)	-	56.2	89.0	200
Cadmium (Cd)	-	56.2	89.0	200
Lead (Pb)	-	56.2	89.0	500
Mercury (Hg)	-	56.2	89.0	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

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

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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: SA35961)

Testing Location:	Customer ID: 2168	Sample ID: SA35961	Sample Type: Primary
Arkansas	River Valley Relief MIPS	Lot Number:	Matrix: Edible
232 S. Broadview St.	5601 Old Greenwood Rd Suite C	M00065C13221457202	Mass: 10pieces
Greenbrier, AR 72058	Fort Smith, AR 72903	Production Run:	Date Collected: 09/05/2023
License: ADA 05_H273	License: 00065C	P20230829BLU15	Date Received: 09/05/2023
Cultivar (Strain) or Sample Description: AR-Wana Gummies Blueberry Indica			Date Completed: 09/08/2023

MICROBIOLOGICAL PROFILE (SOP: SOP-Micro-001)

Analysis Date/Time: 09/07/2023 0935	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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