

SUMMARY OF ANALYSIS (SAMPLE ID: SA41113)

Testing Location:	Customer ID: 2168	Order ID: OR11598	Sample Type: Primary
Arkansas	River Valley Relief MIPS	Lot Number:	Matrix: Concentrate
232 S. Broadview St.	5601 Old Greenwood Rd Suite C	M00065C13354721410	Mass: 4ea
Greenbrier, AR 72058	Fort Smith, AR 72903	Production Run:	Date Collected: 05/15/2025
License: ADH 113	License: 00065C	E20250515RAW28	Date Received: 05/15/2025
Cultivar (Strain) or Sample Description: ArkanRAW Full Spectrum Raw Cannabis Oil 1g Applicator			Date Completed: 05/19/2025

*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.

*Where provided, statements of conformity (e.g. Pass/Fail) are made in accordance with ILAC G8, Binary Statement for Simple Acceptance Rule (w=0, AL=TL).
PASS: when the result is within the acceptance interval. FAIL: when the result is outside the acceptance interval

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	68.0	680
CBG	3.25	32.5
CBC	0.991	9.91
TOTAL CBD	0.499	4.99
TOTAL THC	68.0	680
TOTAL CANNABINOIDS	74.1	741

Terpenes (Top 5)	(%)	ppm
β-Caryophyllene	2.27	22700
d-Limonene	0.871	8710
β-Myrcene	0.819	8190
α-Humulene	0.703	7030
Linalool	0.558	5580
TOTAL TERPENES	7.03	70300

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



CERTIFICATE OF ANALYSIS (SAMPLE ID: SA41113)

Testing Location:	Customer ID: 2168	Order ID: OR11598	Sample Type: Primary
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License: ADH 113	License: 00065C	E20250515RAW28	Date Received: 05/15/2025

Cultivar (Strain) or Sample Description: ArkanRAW Full Spectrum Raw Cannabis Oil 1g Applicator **Date Completed:** 05/19/2025

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

Analysis Date/Time: 05/18/2025 0957

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	0.991	9.91	0.109	0.253	-	9.91	9.91
CBCA	ND	ND	0.337	0.787	-	0.000	0.000
CBD	0.499	4.99	0.766	1.79	-	4.99	4.99
CBDV	ND	ND	0.123	0.287	-	0.000	0.000
CBDVA	ND	ND	0.328	0.765	-	0.000	0.000
CBG	3.25	32.5	0.497	1.16	-	32.5	32.5
CBGA	0.0873	0.873	0.705	0.832	-	0.873	0.873
CBL	ND	ND	0.575	1.34	-	0.000	0.000
CBN	0.692	6.92	0.264	0.616	-	6.92	6.92
CBNA	ND	ND	0.285	0.664	-	0.000	0.000
Δ9-THC	68.0	680	0.316	0.737	-	680	680
Δ8-THC	ND	ND	0.494	1.15	-	0.000	0.000
THCA	ND	ND	0.171	0.401	-	0.000	0.000
THCV	0.503	5.03	0.412	0.959	-	5.03	5.03
THCVA	0.116	1.16	0.131	0.306	-	1.16	1.16
TOTAL	74.1	741			-	741	741
TOTAL CBC	0.991	9.91			-	9.91	9.91
TOTAL CBD	0.499	4.99			-	4.99	4.99
TOTAL CBDV	0.000	0.000			-	0.000	0.000
TOTAL CBG	3.33	33.3			-	33.3	33.3
TOTAL CBN	0.692	6.92			-	6.92	6.92
TOTAL THC	68.0	680			-	680	680
TOTAL THCV	0.604	6.04			-	6.04	6.04



SERVING MASS (g): 1.00
SERVINGS/UNIT: 1

"-" Not reported for this sample.

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.
Dry percent = Wet percent / (1-(Moisture Content/100))

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, ND - Not Detected (less than LOD)

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Kyle W. Felling
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Laboratory Director



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License: ADH 113	License: 00065C	E20250515RAW28	Date Received: 05/15/2025
Cultivar (Strain) or Sample Description: ArkanRAW Full Spectrum Raw Cannabis Oil 1g Applicator			Date Completed: 05/19/2025

TERPENOID PROFILE

Analysis Date/Time: 05/18/2025 1144

Method: GC/MS

Deviations from SOP:

Analyst: KF

Instrument: Agilent 7890/5975

None

<u>Terpene</u>	<u>Result (ppm)</u>	<u>Result (%)</u>	
α-Bisabolol	2340	0.234	
Camphene	368	0.0368	
δ-3-Carene	262	0.0262	
β-Caryophyllene	22700	2.27	
Caryophyllene oxide	952	0.0952	
p-Cymene	<LOQ	-	
Eucalyptol	74.1	0.00741	
Geraniol	ND	-	
Guaiol	1200	0.120	
α-Humulene	7030	0.703	
Isopulegol	ND	-	
d-Limonene	8710	0.871	
Linalool	5580	0.558	
β-Myrcene	8190	0.819	
cis-Nerolidol	ND	-	
trans-Nerolidol	3290	0.329	
α-Ocimene	79.3	0.00793	
β-Ocimene	722	0.0722	
α-Pinene	1750	0.175	
β-Pinene	2190	0.219	
α-Terpinene	156	0.0156	
γ-Terpinene	113	0.0113	
Terpinolene	4580	0.458	
TOTAL	70300	7.03	



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 (ppm): 47.6

"-" Not detected above LOD.

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License: ADH 113	License: 00065C	E20250515RAW28	Date Received: 05/15/2025

Cultivar (Strain) or Sample Description: ArkanRAW Full Spectrum Raw Cannabis Oil 1g Applicator **Date Completed:** 05/19/2025

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

Analysis Date/Time: 05/16/2025 1554 **Method:** HS/GC/MS **Deviations from SOP:**
Analyst: KF **Instrument:** Agilent 7890/5975 **None**

Solvent	Result (ppm)	LOD (ppm)	LOQ (ppm)	Action Level (ppm)	Solvent	Result (ppm)	LOD (ppm)	LOQ (ppm)	Action Level (ppm)
Acetone (67-64-1)	-	32.7	65.4	5000	n-Heptane (142-82-5)	-	32.7	65.4	5000
Acetonitrile (75-5-8)	-	32.7	65.4	410	n-Hexane (110-54-3)	-	11.4	22.9	290
Benzene (71-43-2)	-	0.327	0.654	2	Isobutane (75-28-5)	-	32.7	65.4	5000
n-Butane (106-97-2)	-	32.7	65.4	5000	Isopropanol (67-63-0)	-	32.7	65.4	5000
1-Butanol (71-36-3)	-	32.7	65.4	5000	Isopropyl acetate (108-21-4)	-	32.7	65.4	5000
2-Butanol (78-92-2)	-	32.7	65.4	5000	Isopropyl benzene (98-82-8)	-	3.27	6.54	70
2-Butanone (78-93-3)	-	32.7	65.4	5000	Methanol (67-56-1)	-	32.7	65.4	3000
Cyclohexane (110-82-7)	-	32.7	65.4	3880	2-Methylbutane (78-78-4)	-	32.7	65.4	5000
1,2-Dimethoxyethane (110-71-4)	-	3.27	6.54	100	Methylene chloride (75-9-2)	-	32.7	65.4	600
N,N-Dimethylacetamide (127-19-5)	-	32.7	65.4	1090	2-Methylpentane (107-83-5)	-	11.4	22.9	290
2,2-Dimethylbutane (75-83-2)	-	11.4	22.9	290	3-Methylpentane (96-10-0)	-	11.4	22.9	290
2,3-Dimethylbutane (79-29-8)	-	11.4	22.9	290	n-Pentane (109-66-0)	-	32.7	65.4	5000
N,N-Dimethylformamide (68-12-2)	-	32.7	65.4	880	1-Pentanol (71-41-0)	-	32.7	65.4	5000
Dimethylsulfoxide (67-68-5)	-	32.7	65.4	5000	n-Propane (74-98-6)	-	32.7	65.4	5000
1,4-Dioxane (123-91-1)	-	32.7	65.4	380	1-Propanol (71-23-8)	-	32.7	65.4	5000
Ethanol (64-17-5)	-	32.7	65.4	5000	Pyridine (110-86-1)	-	11.4	22.9	200
2-Ethoxyethanol (110-80-5)	-	11.4	22.9	160	Tetrahydrofuran (109-99-9)	-	32.7	65.4	720
Ethyl ether (60-29-7)	-	32.7	65.4	5000	Tetramethylene sulfone (126-33-0)	-	11.4	22.9	160
Ethyl acetate (141-78-6)	-	32.7	65.4	5000	Toluene (108-88-3)	-	32.7	65.4	890
Ethyl benzene (100-41-4)	-	32.7	65.4	2170	o-Xylene (95-47-6)	-	32.7	65.4	2170
Ethylene glycol (107-21-1)	-	32.7	65.4	620	m,p-Xylene (108-38-3 or 106-42-3)	-	32.7	65.4	2170
Ethylene oxide (75-21-8)	-	3.27	6.54	50	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
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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License: ADH 113	License: 00065C	E20250515RAW28	Date Received: 05/15/2025
Cultivar (Strain) or Sample Description: ArkanRAW Full Spectrum Raw Cannabis Oil 1g Applicator			Date Completed: 05/19/2025

PESTICIDES PROFILE (SOP: SOP-PEST-001)

Analysis Date/Time: 05/18/2025 0932

Analyst: KF

Method: LC/MS/MS

Instrument: Shimadzu LC-8050

Deviations from SOP:

None

Pesticide	Result (ppm)	LOD (ppm)	LOQ (ppm)	Action Level (ppm)	Pesticide	Result (ppm)	LOD (ppm)	LOQ (ppm)	Action Level (ppm)
Abamectin (71751-41-2)	-	0.0475	0.380	0.5	Kresoxim-methyl (143390-89-0)	-	0.0475	0.380	0.4
Acephate (30560-19-1)	-	0.0475	0.380	0.4	Malathion (121-75-5)	-	0.0475	0.380	0.2
Acetaminophen (57960-19-7)	-	0.0475	0.380	2	Metalaxyl (57837-19-1)	-	0.0475	0.380	0.2
Acetamiprid (135410-20-7)	-	0.0475	0.380	0.2	Methiocarb (2032-65-7)	-	0.0475	0.380	0.2
Aldicarb (116-06-3)	-	0.0475	0.380	0.4	Methomyl (16752-77-5)	-	0.0475	0.380	0.4
Azoxystrobin (131860-33-8)	-	0.0475	0.380	0.2	Methyl parathion (298-0-0)	-	0.0475	0.380	0.2
Bifenazate (149877-41-8)	-	0.0475	0.380	0.2	MGK 264 (113-48-4)	-	0.0475	0.380	0.2
Bifenthrin (82657-04-3)	-	0.0475	0.380	0.2	Myclobutanil (88671-89-0)	-	0.0475	0.380	0.2
Boscalid (188425-85-6)	-	0.0475	0.380	0.4	Naled (300-76-5)	-	0.0475	0.380	0.5
Carbaryl (63-25-2)	-	0.0475	0.380	0.2	Oxamyl (23135-22-0)	-	0.0475	0.380	1
Carbofuran (1563-66-2)	-	0.0475	0.380	0.2	Paclobutrazol (76738-62-0)	-	0.0475	0.380	0.4
Chlorantraniliprole (800008-45-7)	-	0.0475	0.380	0.2	Permethrins (52645-53-1)	-	0.0475	0.380	0.2
Chlorfenapyr (122453-73-0)	-	0.0475	0.380	1	Phosmet (732-11-6)	-	0.0475	0.380	0.2
Chlorpyrifos (2921-88-2)	-	0.0475	0.380	0.2	Piperonyl butoxide (51-03-6)	-	0.0475	0.380	2
Clofentezine (74115-24-5)	-	0.0475	0.380	0.2	Prallethrin (2331-36-9)	-	0.0475	0.380	0.2
Cyfluthrin (68359-37-5)	-	0.0475	0.380	1	Propiconazole (60207-90-1)	-	0.0475	0.380	0.4
Cypermethrin (52315-07-8)	-	0.0475	0.380	1	Propoxur (114-26-1)	-	0.0475	0.380	0.2
Daminozide (1596-84-5)	-	0.0475	0.380	1	Pyrethrins (8003-34-7)	-	0.0475	0.380	1
DDVP (62-73-7)	-	0.0475	0.380	0.1	Pyridaben (96489-71-3)	-	0.0475	0.380	0.2
Diazinon (333-41-5)	-	0.0475	0.380	0.2	Spinosad (168316-95-8)	-	0.0475	0.380	0.2
Dimethoate (60-51-5)	-	0.0475	0.380	0.2	Spiromesifen (283594-90-1)	-	0.0475	0.380	0.2
Ethoprophos (13194-48-4)	-	0.0475	0.380	0.2	Spirotetramat (203313-25-1)	-	0.0475	0.380	0.2
Etofenprox (80844-07-1)	-	0.0475	0.380	0.4	Spiroxamine (118134-30-8)	-	0.0475	0.380	0.4
Etoxazole (153233-91-1)	-	0.0475	0.380	0.2	Tebuconazole (80443-41-0)	-	0.0475	0.380	0.4
Fenoxycarb (72490-01-8)	-	0.0475	0.380	0.2	Thiacloprid (111988-49-9)	-	0.0475	0.380	0.2
(E)-Fenpyroximate (134098-61-6)	-	0.0475	0.380	0.4	Thiamethoxam (153719-23-4)	-	0.0475	0.380	0.2
Fipronil (120068-37-3)	-	0.0475	0.380	0.4	Trifloxystrobin (141517-21-7)	-	0.0475	0.380	0.2
Flonicamid (158062-67-0)	-	0.0475	0.380	1					
Fludioxinil (131341-86-1)	-	0.0475	0.380	0.4					
Hexythiazox (78587-05-0)	-	0.0475	0.380	1					
Imazalil (35554-44-0)	-	0.0475	0.380	0.2					
Imidacloprid (138261-41-3)	-	0.0475	0.380	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.

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

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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: 05/18/2025 1147

Method: ICP/MS

Deviations from SOP:

Instrument: Agilent 7700x

None

Analyst: KF

Heavy Metal	Result (ppb)	LOD (ppb)	LOQ (ppb)	Action Level (ppb)
Arsenic (As)	ND	58.6	92.8	200
Cadmium (Cd)	ND	58.6	92.8	200
Lead (Pb)	ND	58.6	92.8	500
Mercury (Hg)	ND	58.6	92.8	100



Abbreviations: ICP - Inductively-Coupled Plasma, MS - Mass Spectrometry,
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

"ND" not detected above LOD

Reporting limit is 1/2 the action level of each analyte.

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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F.A.S.T. Personnel perform sampling following the Sampling SOP (SOP-02).

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



CERTIFICATE OF ANALYSIS (SAMPLE ID: SA41113)

Testing Location:	Customer ID: 2168	Sample ID: SA41113	Sample Type: Primary
Arkansas	River Valley Relief MIPS	Lot Number:	Matrix: Concentrate
232 S. Broadview St.	5601 Old Greenwood Rd Suite C	M00065C13354721410	Mass: 4ea
Greenbrier, AR 72058	Fort Smith, AR 72903	Production Run:	Date Collected: 05/15/2025
-	License: 00065C	E20250515RAW28	Date Received: 05/15/2025
Cultivar (Strain) or Sample Description: ArkanRAW Full Spectrum Raw Cannabis Oil 1g Applicator			Date Completed: 05/19/2025

MICROBIOLOGICAL PROFILE (SOP: SOP-Micro-001)

Analysis Date/Time: 05/18/2025 0831	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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