

SUMMARY OF ANALYSIS (SAMPLE ID: SA35965)

Testing Location: Arkansas 232 S. Broadview St. Greenbrier, AR 72058 License: ADH 113	Customer ID: 2168 River Valley Relief MIPS 5601 Old Greenwood Rd Suite C Fort Smith, AR 72903 License: 00065C	Order ID: OR10599 Lot Number: M00065C13355205781 Production Run: E20230831AKR17	Sample Type: Primary Matrix: Concentrate Mass: 4g Date Collected: 09/05/2023 Date Received: 09/05/2023
Cultivar (Strain) or Sample Description: ArkanRAW Full Spectrum Raw Cannabis Oil			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	79.8	798
CBG	2.75	27.5
CBC	0.824	8.24
TOTAL CBD	0.551	5.51
TOTAL THC	79.8	798
TOTAL CANNABINOIDS	84.9	849

Terpenes (Top 5)	(%)	µg/g
β-Caryophyllene	0.965	9650
α-Humulene	0.549	5490
β-Ocimene	0.253	2530
trans-Nerolidol	0.219	2190
Caryophyllene oxide	0.210	2100
TOTAL TERPENES	3.07	30700

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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REPORT OF LABORATORY ANALYSIS

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



CERTIFICATE OF ANALYSIS (SAMPLE ID: SA35965)

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Cultivar (Strain) or Sample Description: ArkanRAW Full Spectrum Raw Cannabis Oil **Date Completed:** 09/08/2023

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

Analysis Date/Time: 09/06/2023 1536
Analyst: PW

Method: HPLC/DAD
Instrument: Agilent 1100

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

<u>Cannabinoid</u>	<u>Result (%)</u>	<u>Result (mg/g)</u>	<u>LOD (mg/g)</u>	<u>LOQ (mg/g)</u>	<u>Result (mg/mL)</u>	<u>Per Serving (mg)</u>	<u>Per Unit (mg)</u>
CBC	0.824	8.24	0.105	0.246	-	8.24	8.24
CBCA	ND	ND	0.327	0.764	-	-	-
CBD	0.551	5.51	0.743	1.74	-	5.51	5.51
CBDa	ND	ND	0.274	0.639	-	-	-
CBDV	ND	ND	0.119	0.278	-	-	-
CBDVA	ND	ND	0.318	0.742	-	-	-
CBG	2.75	27.5	0.483	1.13	-	27.5	27.5
CBGA	ND	ND	0.684	0.807	-	-	-
CBL	ND	ND	0.558	1.30	-	-	-
CBN	0.330	3.30	0.256	0.598	-	3.30	3.30
CBNA	ND	ND	0.276	0.644	-	-	-
Δ9-THC	79.8	798	0.307	0.716	-	798	798
Δ8-THC	ND	ND	0.479	1.12	-	-	-
THCA	ND	ND	0.166	0.389	-	-	-
THCV	0.635	6.35	0.399	0.931	-	6.35	6.35
THCVA	ND	ND	0.128	0.297	-	-	-
TOTAL	84.9	849				849	849
TOTAL CBC	0.824	8.24				8.24	8.24
TOTAL CBD	0.551	5.51				5.51	5.51
TOTAL CBDV	-	-				-	-
TOTAL CBG	2.75	27.5				27.5	27.5
TOTAL CBN	0.330	3.30				3.30	3.30
TOTAL THC	79.8	798				798	798
TOTAL THCv	0.635	6.35				6.35	6.35



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

"-" 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: ArkanRAW Full Spectrum Raw Cannabis Oil **Date Completed:** 09/08/2023

TERPENOID PROFILE

Analysis Date/Time: 09/06/2023 1841
Analyst: KF

Method: GC/MS
Instrument: Agilent 7890/5975

Deviations from SOP:
None

<u>Terpene</u>	<u>Result (µg/g)</u>	<u>Result (%)</u>	
α-Bisabolol	1110	0.111	■
Camphene	277	0.0277	■
δ-3-Carene	154	0.0154	■
β-Caryophyllene	9650	0.965	■
Caryophyllene oxide	2100	0.210	■
p-Cymene	ND	-	
Eucalyptol	ND	-	
Geraniol	ND	-	
Guaiol	185	0.0185	■
α-Humulene	5490	0.549	■
Isopulegol	ND	-	
d-Limonene	1420	0.142	■
Linalool	ND	-	
β-Myrcene	986	0.0986	■
cis-Nerolidol	986	0.0986	■
trans-Nerolidol	2190	0.219	■
α-Ocimene	ND	-	
β-Ocimene	2530	0.253	■
α-Pinene	955	0.0955	■
β-Pinene	1390	0.139	■
α-Terpinene	709	0.0709	■
γ-Terpinene	616	0.0616	■
Terpinolene	ND	-	
TOTAL	30700	3.07	



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): 77.1

"-" Not detected above LOD.

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Cultivar (Strain) or Sample Description: ArkanRAW Full Spectrum Raw Cannabis Oil **Date Completed:** 09/08/2023

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

Analysis Date/Time: 09/07/2023 0234 **Method:** HS/GC/MS **Deviations from SOP:**
Analyst: KF **Instrument:** Agilent 7890/5975 **None**

Solvent	Result (µg/g)	LOD (µg/g)	LOQ (µg/g)	Action Level (µg/g)	Solvent	Result (µg/g)	LOD (µg/g)	LOQ (µg/g)	Action Level (µg/g)
Acetone (67-64-1)	-	117	233	5000	n-Heptane (142-82-5)	-	117	233	5000
Acetonitrile (75-5-8)	-	117	233	410	n-Hexane (110-54-3)	-	40.8	81.6	290
Benzene (71-43-2)	-	1.17	2.33	2	Isobutane (75-28-5)	-	117	233	5000
n-Butane (106-97-2)	-	117	233	5000	Isopropanol (67-63-0)	-	117	233	5000
1-Butanol (71-36-3)	-	117	233	5000	Isopropyl acetate (108-21-4)	-	117	233	5000
2-Butanol (78-92-2)	-	117	233	5000	Isopropyl benzene (98-82-8)	-	11.7	23.3	70
2-Butanone (78-93-3)	-	117	233	5000	Methanol (67-56-1)	-	117	233	3000
Cyclohexane (110-82-7)	-	117	233	3880	2-Methylbutane (78-78-4)	-	117	233	5000
1,2-Dimethoxyethane (110-71-4)	-	11.7	23.3	100	Methylene chloride (75-9-2)	-	117	233	600
N,N-Dimethylacetamide (127-19-5)	-	117	233	1090	2-Methylpentane (107-83-5)	-	40.8	81.6	290
2,2-Dimethylbutane (75-83-2)	-	40.8	81.6	290	3-Methylpentane (96-10-0)	-	40.8	81.6	290
2,3-Dimethylbutane (79-29-8)	-	40.8	81.6	290	n-Pentane (109-66-0)	-	117	233	5000
N,N-Dimethylformamide (68-12-2)	-	117	233	880	1-Pentanol (71-41-0)	-	117	233	5000
Dimethylsulfoxide (67-68-5)	-	117	233	5000	n-Propane (74-98-6)	-	117	233	5000
1,4-Dioxane (123-91-1)	-	117	233	380	1-Propanol (71-23-8)	-	117	233	5000
Ethanol (64-17-5)	-	117	233	5000	Pyridine (110-86-1)	-	40.8	81.6	200
2-Ethoxyethanol (110-80-5)	-	40.8	81.6	160	Tetrahydrofuran (109-99-9)	-	117	233	720
Ethyl ether (60-29-7)	-	117	233	5000	Tetramethylene sulfone (126-33-0)	-	40.8	81.6	160
Ethyl acetate (141-78-6)	-	117	233	5000	Toluene (108-88-3)	-	117	233	890
Ethyl benzene (100-41-4)	-	117	233	2170	o-Xylene (95-47-6)	-	117	233	2170
Ethylene glycol (107-21-1)	-	117	233	620	m,p-Xylene (108-38-3 or 106-42-3)	-	117	233	2170
Ethylene oxide (75-21-8)	-	11.7	23.3	50	Xylenes* (1330-20-7)	-	43.3	86.7	2170



Color Key

RESULT < AL (Green background)
RESULT > AL (Red background)

"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.

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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Cultivar (Strain) or Sample Description: ArkanRAW Full Spectrum Raw Cannabis Oil **Date Completed:** 09/08/2023

PESTICIDES PROFILE (SOP: SOP-PEST-001)

Analysis Date/Time: 09/06/2023 1527
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)	-	0.0462	0.370	0.5	Kresoxim-methyl (143390-89-0)	-	0.0462	0.370	0.4
Acephate (30560-19-1)	-	0.0462	0.370	0.4	Malathion (121-75-5)	-	0.0462	0.370	0.2
Acequinocyl (57960-19-7)	-	0.0462	0.370	2	Metalaxyl (57837-19-1)	-	0.0462	0.370	0.2
Acetamiprid (135410-20-7)	-	0.0462	0.370	0.2	Methiocarb (2032-65-7)	-	0.0462	0.370	0.2
Aldicarb (116-06-3)	-	0.0462	0.370	0.4	Methomyl (16752-77-5)	-	0.0462	0.370	0.4
Azoxystrobin (131860-33-8)	-	0.0462	0.370	0.2	Methyl parathion (298-0-0)	-	0.0462	0.370	0.2
Bifenazate (149877-41-8)	-	0.0462	0.370	0.2	MGK 264 (113-48-4)	-	0.0462	0.370	0.2
Bifenthrin (82657-04-3)	-	0.0462	0.370	0.2	Myclobutanil (88671-89-0)	-	0.0462	0.370	0.2
Boscalid (188425-85-6)	-	0.0462	0.370	0.4	Naled (300-76-5)	-	0.0462	0.370	0.5
Carbaryl (63-25-2)	-	0.0462	0.370	0.2	Oxamyl (23135-22-0)	-	0.0462	0.370	1
Carbofuran (1563-66-2)	-	0.0462	0.370	0.2	Pacllobutrazol (76738-62-0)	-	0.0462	0.370	0.4
Chlorantraniliprole (800008-45-7)	-	0.0462	0.370	0.2	Permethrins (52645-53-1)	-	0.0462	0.370	0.2
Chlorfenapyr (122453-73-0)	-	0.0462	0.370	1	Phosmet (732-11-6)	-	0.0462	0.370	0.2
Chlorpyrifos (2921-88-2)	-	0.0462	0.370	0.2	Piperonyl butoxide (51-03-6)	-	0.0462	0.370	2
Clofentezine (74115-24-5)	-	0.0462	0.370	0.2	Prallethrins (2331-36-9)	-	0.0462	0.370	0.2
Cyfluthrin (68359-37-5)	-	0.0462	0.370	1	Propiconazole (60207-90-1)	-	0.0462	0.370	0.4
Cypermethrin (52315-07-8)	-	0.0462	0.370	1	Propoxur (114-26-1)	-	0.0462	0.370	0.2
Daminozide (1596-84-5)	-	0.0462	0.370	1	Pyrethrins (8003-34-7)	-	0.0462	0.370	1
DDVP (62-73-7)	-	0.0462	0.370	0.1	Pyridaben (96489-71-3)	-	0.0462	0.370	0.2
Diazinon (333-41-5)	-	0.0462	0.370	0.2	Spinosad (168316-95-8)	-	0.0462	0.370	0.2
Dimethoate (60-51-5)	-	0.0462	0.370	0.2	Spiromesifen (283594-90-1)	-	0.0462	0.370	0.2
Ethoprophos (13194-48-4)	-	0.0462	0.370	0.2	Spirotetramat (203313-25-1)	-	0.0462	0.370	0.2
Etofenprox (80844-07-1)	-	0.0462	0.370	0.4	Spiroxamine (118134-30-8)	-	0.0462	0.370	0.4
Etoxazole (153233-91-1)	-	0.0462	0.370	0.2	Tebuconazole (80443-41-0)	-	0.0462	0.370	0.4
Fenoxycarb (72490-01-8)	-	0.0462	0.370	0.2	Thiacloprid (111988-49-9)	-	0.0462	0.370	0.2
(E)-Fenpyroximate (134098-61-6)	-	0.0462	0.370	0.4	Thiamethoxam (153719-23-4)	-	0.0462	0.370	0.2
Fipronil (120068-37-3)	-	0.0462	0.370	0.4	Trifloxystrobin (141517-21-7)	-	0.0462	0.370	0.2
Fonicamid (158062-67-0)	-	0.0462	0.370	1					
Fludioxinil (131341-86-1)	-	0.0462	0.370	0.4					
Hexythiazox (78587-05-0)	-	0.0462	0.370	1					
Imazalil (35554-44-0)	-	0.0462	0.370	0.2					
Imidacloprid (138261-41-3)	-	0.0462	0.370	0.4					



Color Key

RESULT < AL (Green background)
RESULT > AL (Red background)

"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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Cultivar (Strain) or Sample Description: ArkanRAW Full Spectrum Raw Cannabis Oil			Date Completed: 09/08/2023

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

Analysis Date/Time: 09/06/2023 1833 (ICP/OES) **Method:** ICP/MS **Deviations from SOP:**
Analysis Date/Time: - (DMA) **Instrument:** Agilent 7500ce None
Analyst: KF

<u>Heavy Metal</u>	<u>Result (µg/kg)</u>	<u>LOD (µg/kg)</u>	<u>LOQ (µg/kg)</u>	<u>Action Level (µg/kg)</u>
Arsenic (As)	-	57.8	91.5	200
Cadmium (Cd)	-	57.8	91.5	200
Lead (Pb)	-	57.8	91.5	500
Mercury (Hg)	-	57.8	91.5	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

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 "-" not detected above LOD

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

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 Laboratory Director



CERTIFICATE OF ANALYSIS (SAMPLE ID: SA35965)

Testing Location: Arkansas 232 S. Broadview St. Greenbrier, AR 72058 License: ADA 05_H273	Customer ID: 2168 River Valley Relief MIPS 5601 Old Greenwood Rd Suite C Fort Smith, AR 72903 License: 00065C	Sample ID: SA35965 Lot Number: M00065C13355205781 Production Run: E20230831AKR17	Sample Type: Primary Matrix: Concentrate Mass: 4g Date Collected: 09/05/2023 Date Received: 09/05/2023
Cultivar (Strain) or Sample Description: ArkanRAW Full Spectrum Raw Cannabis Oil			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

<u>Bacteria/Microbe</u>	<u>Result (CFU/g)</u>	<u>Action Level (CFU/g)</u>
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



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.

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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