F.A.S.T. LABORATORIES/RESEARCH

A2LA ACCREDITED CERTIFICATE #4473.01

Analyzed on behalf of:

RVR RIVER VALLEY RELIEF

SUMMARY OF ANALYSIS (SAMPLE ID: SA44396)

Testing Location:	**Customer ID:** 2161	**Order ID:** OR12206	**Sample Type:** Primary
Arkansas	River Valley Relief Cultivation	**Lot Number:**	**Matrix:** Flower/Trim
232 S. Broadview St.	5601 Old Greenwood Rd Suite C	M00065C13132195776	**Mass:** 23g
Greenbrier, AR 72058	Fort Smith, AR 72903	**Production Run:**	**Date Collected:** 06/18/2026
License: ADH 113	License: 00065C	1134H20260512PCZ-9	**Date Received:** 06/18/2026
Cultivar (Strain) or Sample Description: Purple Cloudz			**Date Completed:**06/22/2026

*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 (%)	Water Activity (aw)	PASS/FAIL
13.1	0.465 @ 24.5ºC	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
THCA	24.7	247
CBL	0.544	5.44
Δ9-THC	0.491	4.91
TOTAL CBD	0.000	0.000
TOTAL THC	22.2	222
TOTAL CANNABINOIDS	27.0	270

Terpenes (Top 5)	(%)	ppm
d-Limonene	0.590	5900
α-Pinene	0.240	2400
β-Caryophyllene	0.200	2000
β-Pinene	0.118	1180
Linalool	0.115	1150
TOTAL TERPENES	1.83	18300

Contaminants	PASS/FAIL
Heavy Metals:	PASS
Microbiology:	PASS
Pesticides:	PASS

Sample Picture Upon Receipt



Scan the QR code to verify results.

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Kyle W. Felling, Ph.D.
Laboratory Director

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Cultivar (Strain) or Sample Description: Purple Cloudz — **Date Completed:**06/22/2026

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

Analysis Date/Time: 06/19/2026 1808 — **Method:** HPLC/DAD — **Moisture Content (%):** 13.1

Analyst: PW — **Instrument:** Agilent 1100 — **Water Activity (aw):** 0.465 @ 24.5ºC

Cannabinoid	Result (%)	Result (mg/g)	LOD (mg/g)	LOQ (mg/g)	Result (mg/mL)	Per Serving (mg)	Per Unit (mg)
CBC	0.0980	0.980	0.0439	0.102	-	0.852	0.852
CBCA	0.334	3.34	0.136	0.318	-	2.90	2.90
CBD	ND	ND	0.310	0.723	-	0.000	0.000
CBDA	DET	DET	0.114	0.266	-	0.000	0.000
CBDV	ND	ND	0.0497	0.116	-	0.000	0.000
CBDVA	ND	ND	0.132	0.309	-	0.000	0.000
CBG	0.235	2.35	0.201	0.469	-	2.04	2.04
CBGA	0.327	3.27	0.285	0.336	-	2.84	2.84
CBL	0.544	5.44	0.232	0.542	-	4.73	4.73
CBN	ND	ND	0.107	0.249	-	0.000	0.000
CBNA	0.0699	0.699	0.115	0.268	-	0.607	0.607
Δ9-THC	0.491	4.91	0.128	0.298	-	4.27	4.27
Δ8-THC	0.0793	0.793	0.200	0.466	-	0.689	0.689
THCA	24.7	247	0.0693	0.162	-	215	215
THCV	ND	ND	0.166	0.388	-	0.000	0.000
THCVA	0.178	1.78	0.0531	0.124	-	1.55	1.55
TOTAL	27.0	270			-	235	235
TOTAL CBC	0.391	3.91			-	3.40	3.40
TOTAL CBD	0.000	0.000			-	0.000	0.000
TOTAL CBDV	0.000	0.000			-	0.000	0.000
TOTAL CBG	0.521	5.21			-	4.53	4.53
TOTAL CBN	0.0612	0.612			-	0.532	0.532
TOTAL THC	22.2	222			-	193	193
TOTAL THCV	0.154	1.54			-	1.34	1.34



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 = (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, ND - Not Detected (less than LOD)

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Laboratory Director

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RVR RIVER VALLEY RELIEF

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Cultivar (Strain) or Sample Description: Purple Cloudz — **Date Completed:**06/22/2026

TERPENOID PROFILE

Analysis Date/Time:06/20/2026 0311 — **Method:** GC/MS — **Deviations from SOP:**

Analyst: KF — **Instrument:** Agilent 7890/5975 — None

Terpene	Result (ppm)	Result (%)	Terpene	Result (ppm)	Result (%)
α-Bisabolol	345	0.0345	d-Limonene	5900	0.590
L-Borneol	ND	-	Linalool	1150	0.115
D-Borneol	97.7	0.00977	l-Menthone	ND	-
Camphene	201	0.0201	Menthol	ND	-
Camphor	ND	-	β-Myrcene	371	0.0371
δ-3-Carene	ND	-	Nerol	ND	-
Carvacrol	ND	-	cis-Nerolidol	ND	-
Carvone	ND	-	trans-Nerolidol	311	0.0311
β-Caryophyllene	2000	0.200	Nootkatone	ND	-
Caryophyllene oxide	116	0.0116	cis-β-Ocimene	53.4	0.00534
Cedrene	ND	-	trans-β-Ocimene	182	0.0182
Cedrol	ND	-	Octyl acetate	ND	-
cis-Citral	ND	-	α-Phellandrene	ND	-
trans-Citral	ND	-	Phytane	ND	-
Citronellol	ND	-	α-Pinene	2400	0.240
o-Cymene	ND	-	β-Pinene	1180	0.118
m-Cymene	ND	-	Piperitone	ND	-
p-Cymene	ND	-	Pulegone	ND	-
Eucalyptol	ND	-	Sabinene	720	0.0720
trans-β-Farnesene	70.8	0.00708	Sabinene hydrate	ND	-
Farnesol 1	ND	-	Safranal	ND	-
Farnesol 2	139	0.0139	Squalene	ND	-
Fenchone	ND	-	Terpinen-4-ol	ND	-
Fenchyl alcohol	653	0.0653	α-Terpinene	ND	-
Geraniol	ND	-	γ-Terpinene	ND	-
Geranyl acetate	ND	-	α-Terpineol	513	0.0513
Guaiol	733	0.0733	Terpinolene	83.7	0.00837
α-Humulene	907	0.0907	α-Thujone	ND	-
Isoborneol	ND	-	Thymol	ND	-
Isobornyl acetate	ND	-	Valencene	65.2	0.00652
d-Isomenthone	ND	-	d-Valerolactam	ND	-
Isopulegol	90.9	0.00909	Verbenone	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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"-" Not detected above LOD.

TOTAL (ppm) 18300 (%) 1.83 — **Reporting Limit (ppm):** 48.1

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PESTICIDES PROFILE (SOP: SOP-PEST-001)

Analysis Date/Time: 06/19/2026 1732 — **Method:** LC/MS/MS — **Deviations from SOP:** None

Analyst: KF — **Instrument:** Shimadzu LC-8050

Pesticide	Result (ppm)	LOD (ppm)	LOQ (ppm)	Action Level (ppm)
Abamectin (71751-41-2)	-	0.0478	0.382	0.5
Acephate (30560-19-1)	-	0.0478	0.382	0.4
Acequinocyl (57960-19-7)	-	0.0478	0.382	2
Acetamiprid (135410-20-7)	-	0.0478	0.382	0.2
Aldicarb (116-06-3)	-	0.0478	0.382	0.4
Azoxystrobin (131860-33-8)	-	0.0478	0.382	0.2
Bifenazate (149877-41-8)	-	0.0478	0.382	0.2
Bifenthrin (82657-04-3)	-	0.0478	0.382	0.2
Boscalid (188425-85-6)	-	0.0478	0.382	0.4
Carbaryl (63-25-2)	-	0.0478	0.382	0.2
Carbofuran (1563-66-2)	-	0.0478	0.382	0.2
Chlorantraniliprole (800008-45-7)	-	0.0478	0.382	0.2
Chlorfenapyr (122453-73-0)	-	0.0478	0.382	1
Chlorpyrifos (2921-88-2)	-	0.0478	0.382	0.2
Clofentezine (74115-24-5)	-	0.0478	0.382	0.2
Cyfluthrin (68359-37-5)	-	0.0478	0.382	1
Cypermethrin (52315-07-8)	-	0.0478	0.382	1
Daminozide (1596-84-5)	-	0.0478	0.382	1
DDVP (62-73-7)	-	0.0478	0.382	0.1
Diazinon (333-41-5)	-	0.0478	0.382	0.2
Dimethoate (60-51-5)	-	0.0478	0.382	0.2
Ethoprophos (13194-48-4)	-	0.0478	0.382	0.2
Etofenprox (80844-07-1)	-	0.0478	0.382	0.4
Etoxazole (153233-91-1)	-	0.0478	0.382	0.2
Fenoxycarb (72490-01-8)	-	0.0478	0.382	0.2
(E)-Fenpyroximate (134098-61-6)	-	0.0478	0.382	0.4
Fipronil (120068-37-3)	-	0.0478	0.382	0.4
Flonicamid (158062-67-0)	-	0.0478	0.382	1
Fludioxinil (131341-86-1)	-	0.0478	0.382	0.4
Hexythiazox (78587-05-0)	-	0.0478	0.382	1
Imazalil (35554-44-0)	-	0.0478	0.382	0.2
Imidacloprid (138261-41-3)	-	0.0478	0.382	0.4

Pesticide	Result (ppm)	LOD (ppm)	LOQ (ppm)	Action Level (ppm)
Kresoxim-methyl (143390-89-0)	-	0.0478	0.382	0.4
Malathion (121-75-5)	-	0.0478	0.382	0.2
Metalaxyl (57837-19-1)	-	0.0478	0.382	0.2
Methiocarb (2032-65-7)	-	0.0478	0.382	0.2
Methomyl (16752-77-5)	-	0.0478	0.382	0.4
Methyl parathion (298-0-0)	-	0.0478	0.382	0.2
MGK 264 (113-48-4)	-	0.0478	0.382	0.2
Myclobutanil (88671-89-0)	-	0.0478	0.382	0.2
Naled (300-76-5)	-	0.0478	0.382	0.5
Oxamyl (23135-22-0)	-	0.0478	0.382	1
Paclobutrazol (76738-62-0)	-	0.0478	0.382	0.4
Permethrins (52645-53-1)	-	0.0478	0.382	0.2
Phosmet (732-11-6)	-	0.0478	0.382	0.2
Piperonyl butoxide (51-03-6)	-	0.0478	0.382	2
Prallethrins (2331-36-9)	-	0.0478	0.382	0.2
Propiconazole (60207-90-1))	-	0.0478	0.382	0.4
Propoxur (114-26-1)	-	0.0478	0.382	0.2
Pyrethrins (8003-34-7)	-	0.0478	0.382	1
Pyridaben (96489-71-3)	-	0.0478	0.382	0.2
Spinosad (168316-95-8)	-	0.0478	0.382	0.2
Spiromesifen (283594-90-1)	-	0.0478	0.382	0.2
Spirotetramat (203313-25-1)	-	0.0478	0.382	0.2
Spiroxamine (118134-30-8)	-	0.0478	0.382	0.4
Tebuconazole (80443-41-0)	-	0.0478	0.382	0.4
Thiacloprid (111988-49-9)	-	0.0478	0.382	0.2
Thiamethoxam (153719-23-4)	-	0.0478	0.382	0.2
Trifloxystrobin (141517-21-7)	-	0.0478	0.382	0.2



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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06/22/2026

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

Analysis Date/Time: 06/19/2026 1607

Method: ICP/MS

Instrument: Agilent 7700x

Deviations from SOP: None

Analyst: KF

Heavy Metal	Result (ppb)	LOD (ppb)	LOQ (ppb)	Action Level (ppb)
Arsenic (As)	ND	59.3	94.0	200
Cadmium (Cd)	ND	59.3	94.0	200
Lead (Pb)	ND	59.3	94.0	500
Mercury (Hg)	ND	59.3	94.0	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.

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MICROBIOLOGICAL PROFILE (SOP: SOP-Micro-001)

Analysis Date/Time: 06/20/2026 1225
Analyst: PW

Method: Hardy Diagnostics CompactDry
Instrument: Thermo Incubator

Deviations from SOP:
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.
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