

SUMMARY OF ANALYSIS (SAMPLE ID: SA42653)

Testing Location: Arkansas 232 S. Broadview St. Greenbrier, AR 72058 License: ADH 113	Customer ID: 2161 River Valley Relief Cultivation 5601 Old Greenwood Rd Suite C Fort Smith, AR 72903 License: 00065C	Order ID: OR11897 Lot Number: M00065C13138865377 Production Run: 2114H20251020SDP-5	Sample Type: Primary Matrix: Flower/Trim Mass: 22g Date Collected: 11/17/2025 Date Received: 11/17/2025
Cultivar (Strain) or Sample Description: Stardawg Pie			Date Completed: 11/19/2025

*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 (%)

11.8

Water Activity (aw)

0.448 @ 24.5°C

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.

<u>Cannabinoids (Top 3)</u>	<u>(%)</u>	<u>mg/g</u>
THCA	31.3	313
CBGA	1.41	14.1
CBG	0.381	3.81
TOTAL CBD	0.000	0.000
TOTAL THC	27.7	277
TOTAL CANNABINOIDS	33.3	333

<u>Terpenes (Top 5)</u>	<u>(%)</u>	<u>ppm</u>
β-Myrcene	0.488	4880
d-Limonene	0.486	4860
β-Caryophyllene	0.193	1930
Linalool	0.0849	849
α-Humulene	0.0818	818
TOTAL TERPENES	1.76	17600

<u>Contaminants</u>	<u>PASS/FAIL</u>
Heavy Metals:	PASS
Microbiology:	PASS
Pesticides:	PASS



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

Analysis Date/Time: 11/18/2025 1557 **Method:** HPLC/DAD **Moisture Content (%):** 11.8
Analyst: PW **Instrument:** Agilent 1100 **Water Activity (aw):** 0.448 @ 24.5°C

<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	ND	ND	0.0392	0.0914	-	0.000	0.000
CBCA	ND	ND	0.122	0.284	-	0.000	0.000
CBD	ND	ND	0.276	0.645	-	0.000	0.000
CBDA	ND	ND	0.102	0.237	-	0.000	0.000
CBDV	ND	ND	0.0443	0.103	-	0.000	0.000
CBDVA	ND	ND	0.118	0.276	-	0.000	0.000
CBG	0.381	3.81	0.179	0.419	-	3.36	3.36
CBGA	1.41	14.1	0.254	0.300	-	12.4	12.4
CBL	ND	ND	0.207	0.484	-	0.000	0.000
CBN	ND	ND	0.0951	0.222	-	0.000	0.000
CBNA	ND	ND	0.103	0.239	-	0.000	0.000
Δ9-THC	0.193	1.93	0.114	0.266	-	1.70	1.70
Δ8-THC	ND	ND	0.178	0.415	-	0.000	0.000
THCA	31.3	313	0.0618	0.145	-	276	276
THCV	ND	ND	0.148	0.346	-	0.000	0.000
THCVA	0.0902	0.902	0.0474	0.110	-	0.796	0.796
TOTAL	33.3	333				294	294
TOTAL CBC	0.000	0.000				0.000	0.000
TOTAL CBD	0.000	0.000				0.000	0.000
TOTAL CBDV	0.000	0.000				0.000	0.000
TOTAL CBG	1.61	16.1				14.2	14.2
TOTAL CBN	0.000	0.000				0.000	0.000
TOTAL THC	27.7	277				244	244
TOTAL THCV	0.0782	0.782				0.690	0.690



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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TERPENOID PROFILE

Analysis Date/Time: 11/19/2025 0435
Analyst: KF

Method: GC/MS
Instrument: Agilent 7890/5975

Deviations from SOP:
None

Terpene	Result (ppm)	Result (%)	Terpene	Result (ppm)	Result (%)
α-Bisabolol	255	0.0255	d-Limonene	4860	0.486
L-Borneol	ND	-	Linalool	849	0.0849
D-Borneol	65.8	0.00658	l-Menthone	ND	-
Camphene	121	0.0121	Menthol	89.9	0.00899
Camphor	ND	-	β-Myrcene	4880	0.488
δ-3-Carene	<LOQ	-	Nerol	ND	-
Carvacrol	ND	-	cis-Nerolidol	ND	-
Carvone	ND	-	trans-Nerolidol	237	0.0237
β-Caryophyllene	1930	0.193	Nootkatone	ND	-
Caryophyllene oxide	62.6	0.00626	cis-β-Ocimene	61.3	0.00613
Cedrene	ND	-	trans-β-Ocimene	<LOQ	-
Cedrol	ND	-	Octyl acetate	ND	-
cis-Citral	ND	-	α-Phellandrene	<LOQ	-
trans-Citral	ND	-	Phytane	ND	-
Citronellol	68.3	0.00683	α-Pinene	413	0.0413
o-Cymene	ND	-	β-Pinene	546	0.0546
m-Cymene	ND	-	Piperitone	ND	-
p-Cymene	ND	-	Pulegone	ND	-
Eucalyptol	ND	-	Sabinene	300	0.0300
trans-β-Farnesene	82.6	0.00826	Sabinene hydrate	<LOQ	-
Farnesol 1	ND	-	Safranal	ND	-
Farnesol 2	124	0.0124	Squalene	106	0.0106
Fenchone	<LOQ	-	Terpinen-4-ol	<LOQ	-
Fenchyl alcohol	368	0.0368	α-Terpinene	<LOQ	-
Geraniol	77.4	0.00774	γ-Terpinene	<LOQ	-
Geranyl acetate	55.2	0.00552	α-Terpineol	329	0.0329
Guaiol	483	0.0483	Terpinolene	68.1	0.00681
α-Humulene	818	0.0818	α-Thujone	106	0.0106
Isoborneol	<LOQ	-	Thymol	60.9	0.00609
Isobornyl acetate	ND	-	Valencene	86.7	0.00867
d-Isomenthone	ND	-	d-Valerolactam	ND	-
Isopulegol	63.3	0.00633	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) 17600 (%) 1.76 **Reporting Limit (ppm): 42.9**

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PESTICIDES PROFILE (SOP: SOP-PEST-001)

Analysis Date/Time: 11/18/2025 1635
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)	-	0.0425	0.340	0.5	Kresoxim-methyl (143390-89-0)	-	0.0425	0.340	0.4
Acephate (30560-19-1)	-	0.0425	0.340	0.4	Malathion (121-75-5)	-	0.0425	0.340	0.2
Acequinocyl (57960-19-7)	-	0.0425	0.340	2	Metalaxyl (57837-19-1)	-	0.0425	0.340	0.2
Acetamiprid (135410-20-7)	-	0.0425	0.340	0.2	Methiocarb (2032-65-7)	-	0.0425	0.340	0.2
Aldicarb (116-06-3)	-	0.0425	0.340	0.4	Methomyl (16752-77-5)	-	0.0425	0.340	0.4
Azoxystrobin (131860-33-8)	-	0.0425	0.340	0.2	Methyl parathion (298-0-0)	-	0.0425	0.340	0.2
Bifenazate (149877-41-8)	-	0.0425	0.340	0.2	MGK 264 (113-48-4)	-	0.0425	0.340	0.2
Bifenthrin (82657-04-3)	-	0.0425	0.340	0.2	Myclobutanil (88671-89-0)	-	0.0425	0.340	0.2
Boscalid (188425-85-6)	-	0.0425	0.340	0.4	Naled (300-76-5)	-	0.0425	0.340	0.5
Carbaryl (63-25-2)	-	0.0425	0.340	0.2	Oxamyl (23135-22-0)	-	0.0425	0.340	1
Carbofuran (1563-66-2)	-	0.0425	0.340	0.2	Pacllobutrazol (76738-62-0)	-	0.0425	0.340	0.4
Chlorantraniliprole (800008-45-7)	-	0.0425	0.340	0.2	Permethrins (52645-53-1)	-	0.0425	0.340	0.2
Chlorfenapyr (122453-73-0)	-	0.0425	0.340	1	Phosmet (732-11-6)	-	0.0425	0.340	0.2
Chlorpyrifos (2921-88-2)	-	0.0425	0.340	0.2	Piperonyl butoxide (51-03-6)	-	0.0425	0.340	2
Clofentezine (74115-24-5)	-	0.0425	0.340	0.2	Prallethrins (2331-36-9)	-	0.0425	0.340	0.2
Cyfluthrin (68359-37-5)	-	0.0425	0.340	1	Propiconazole (60207-90-1)	-	0.0425	0.340	0.4
Cypermethrin (52315-07-8)	-	0.0425	0.340	1	Propoxur (114-26-1)	-	0.0425	0.340	0.2
Daminozide (1596-84-5)	-	0.0425	0.340	1	Pyrethrins (8003-34-7)	-	0.0425	0.340	1
DDVP (62-73-7)	-	0.0425	0.340	0.1	Pyridaben (96489-71-3)	-	0.0425	0.340	0.2
Diazinon (333-41-5)	-	0.0425	0.340	0.2	Spinosad (168316-95-8)	-	0.0425	0.340	0.2
Dimethoate (60-51-5)	-	0.0425	0.340	0.2	Spiromesifen (283594-90-1)	-	0.0425	0.340	0.2
Ethoprophos (13194-48-4)	-	0.0425	0.340	0.2	Spirotetramat (203313-25-1)	-	0.0425	0.340	0.2
Etofenprox (80844-07-1)	-	0.0425	0.340	0.4	Spiroxamine (118134-30-8)	-	0.0425	0.340	0.4
Etoxazole (153233-91-1)	-	0.0425	0.340	0.2	Tebuconazole (80443-41-0)	-	0.0425	0.340	0.4
Fenoxycarb (72490-01-8)	-	0.0425	0.340	0.2	Thiacloprid (111988-49-9)	-	0.0425	0.340	0.2
(E)-Fenpyroximate (134098-61-6)	-	0.0425	0.340	0.4	Thiamethoxam (153719-23-4)	-	0.0425	0.340	0.2
Fipronil (120068-37-3)	-	0.0425	0.340	0.4	Trifloxystrobin (141517-21-7)	-	0.0425	0.340	0.2
Fonicamid (158062-67-0)	-	0.0425	0.340	1					
Fludioxinil (131341-86-1)	-	0.0425	0.340	0.4					
Hexythiazox (78587-05-0)	-	0.0425	0.340	1					
Imazalil (35554-44-0)	-	0.0425	0.340	0.2					
Imidacloprid (138261-41-3)	-	0.0425	0.340	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	Sythane	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: 11/18/2025 2321 **Method:** ICP/MS **Deviations from SOP:** None
Analyst: KF **Instrument:** Agilent 7700x

<u>Heavy Metal</u>	<u>Result (ppb)</u>	<u>LOD (ppb)</u>	<u>LOQ (ppb)</u>	<u>Action Level (ppb)</u>
Arsenic (As)	ND	58.6	92.7	200
Cadmium (Cd)	ND	58.6	92.7	200
Lead (Pb)	ND	58.6	92.7	500
Mercury (Hg)	ND	58.6	92.7	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: 11/19/2025 0515 **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

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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