

SUMMARY OF ANALYSIS (SAMPLE ID: SA40041)

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: OR11413 Lot Number: M00065C13133664700 Production Run: 7084H20241209SDP-1	Sample Type: Primary Matrix: Flower Mass: 23g Date Collected: 01/29/2025 Date Received: 01/30/2025
Cultivar (Strain) or Sample Description: Stardawg Pie			Date Completed: 02/02/2025

*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.

Moisture Content (%)

9.70

Water Activity (aw)

0.387 @ 24.4°C

PASS/FAIL

PASS

Moisture content/water activity action levels are referenced from the State of Arkansas MMJ testing guidelines.

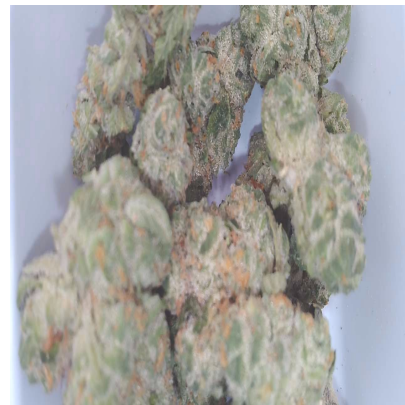
Moisture content levels less than 15% are recommended but the sample does not fail. Water activity levels must be less than 0.65aw.

Cannabinoids (Top 3)	(%)	mg/g
THCA	34.7	347
CBGA	1.31	13.1
Δ9-THC	0.388	3.88
TOTAL CBD	0.000	0.000
TOTAL THC	30.8	308
TOTAL CANNABINOIDS	37.1	371

Terpenes (Top 5)	(%)	µg/g
β-Myrcene	0.757	7570
d-Limonene	0.698	6980
β-Caryophyllene	0.252	2520
Linalool	0.200	2000
α-Humulene	0.112	1120
TOTAL TERPENES	2.51	25100

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
Kyle W. Felling, Ph.D.
Laboratory Director



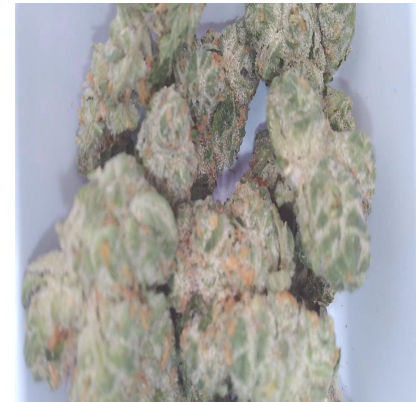
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CANNABINOID (POTENCY) PROFILE (SOP: SOP-CANN-001)

Analysis Date/Time: 01/31/2025 1232 **Method:** HPLC/DAD **Moisture Content (%):** 9.70
Analyst: PW **Instrument:** Agilent 1100 **Water Activity (aw):** 0.387 @ 24.4°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	0.0403	0.0940	-	0.000	0.000
CBCA	0.141	1.41	0.125	0.292	-	1.27	1.27
CBD	ND	ND	0.284	0.663	-	0.000	0.000
CBDA	ND	ND	0.105	0.244	-	0.000	0.000
CBDV	ND	ND	0.0456	0.106	-	0.000	0.000
CBDVA	ND	ND	0.122	0.284	-	0.000	0.000
CBG	0.268	2.68	0.184	0.431	-	2.42	2.42
CBGA	1.31	13.1	0.262	0.309	-	11.8	11.8
CBL	0.165	1.65	0.213	0.498	-	1.49	1.49
CBN	ND	ND	0.0979	0.229	-	0.000	0.000
CBNA	ND	ND	0.106	0.246	-	0.000	0.000
CBT	ND	ND	0.153	0.357	-	0.000	0.000
Δ9-THC	0.388	3.88	0.117	0.274	-	3.50	3.50
Δ8-THC	ND	ND	0.183	0.427	-	0.000	0.000
THCA	34.7	347	0.0636	0.149	-	313	313
THCV	ND	ND	0.153	0.356	-	0.000	0.000
THCVA	0.155	1.55	0.0488	0.113	-	1.40	1.40
TOTAL	37.1	371			-	335	335
TOTAL CBC	0.123	1.23			-	1.11	1.11
TOTAL CBD	0.000	0.000			-	0.000	0.000
TOTAL CBDV	0.000	0.000			-	0.000	0.000
TOTAL CBG	1.42	14.2			-	12.8	12.8
TOTAL CBN	0.000	0.000			-	0.000	0.000
TOTAL THC	30.8	308			-	278	278
TOTAL THCV	0.134	1.34			-	1.21	1.21



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.

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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Cultivar (Strain) or Sample Description: Stardawg Pie			Date Completed: 02/02/2025

TERPENOID PROFILE

Analysis Date/Time: 01/31/2025 1434
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	213	0.0213	
Camphene	331	0.0331	
δ-3-Carene	151	0.0151	
β-Caryophyllene	2520	0.252	
Caryophyllene oxide	ND	-	
p-Cymene	124	0.0124	
Eucalyptol	73.2	0.00732	
Geraniol	492	0.0492	
Guaiol	380	0.0380	
α-Humulene	1120	0.112	
Isopulegol	111	0.0111	
d-Limonene	6980	0.698	
Linalool	2000	0.200	
β-Myrcene	7570	0.757	
cis-Nerolidol	ND	-	
trans-Nerolidol	608	0.0608	
α-Ocimene	163	0.0163	
β-Ocimene	184	0.0184	
α-Pinene	669	0.0669	
β-Pinene	1030	0.103	
α-Terpinene	159	0.0159	
γ-Terpinene	79.0	0.00790	
Terpinolene	139	0.0139	
TOTAL	25100	2.51	



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): 44.2

"-" Not detected above LOD.

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Kyle W. Felling, Ph.D.
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PESTICIDES PROFILE (SOP: SOP-PEST-001)

Analysis Date/Time: 01/31/2025 1306 **Method:** LC/MS/MS **Deviations from SOP:** None
Analyst: KF **Instrument:** Shimadzu LC-8050

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)	-	0.0439	0.351	0.5	Kresoxim-methyl (143390-89-0)	-	0.0439	0.351	0.4
Acephate (30560-19-1)	-	0.0439	0.351	0.4	Malathion (121-75-5)	-	0.0439	0.351	0.2
Acetaminocyl (57960-19-7)	-	0.0439	0.351	2	Metalaxyl (57837-19-1)	-	0.0439	0.351	0.2
Acetamiprid (135410-20-7)	-	0.0439	0.351	0.2	Methiocarb (2032-65-7)	-	0.0439	0.351	0.2
Aldicarb (116-06-3)	-	0.0439	0.351	0.4	Methomyl (16752-77-5)	-	0.0439	0.351	0.4
Azoxystrobin (131860-33-8)	-	0.0439	0.351	0.2	Methyl parathion (298-0-0)	-	0.0439	0.351	0.2
Bifenazate (149877-41-8)	-	0.0439	0.351	0.2	MGK 264 (113-48-4)	-	0.0439	0.351	0.2
Bifenthrin (82657-04-3)	-	0.0439	0.351	0.2	Myclobutanil (88671-89-0)	-	0.0439	0.351	0.2
Boscalid (188425-85-6)	-	0.0439	0.351	0.4	Naled (300-76-5)	-	0.0439	0.351	0.5
Carbaryl (63-25-2)	-	0.0439	0.351	0.2	Oxamyl (23135-22-0)	-	0.0439	0.351	1
Carbofuran (1563-66-2)	-	0.0439	0.351	0.2	Pacllobutrazol (76738-62-0)	-	0.0439	0.351	0.4
Chlorantraniliprole (800008-45-7)	-	0.0439	0.351	0.2	Permethrins (52645-53-1)	-	0.0439	0.351	0.2
Chlorfenapyr (122453-73-0)	-	0.0439	0.351	1	Phosmet (732-11-6)	-	0.0439	0.351	0.2
Chlorpyrifos (2921-88-2)	-	0.0439	0.351	0.2	Piperonyl butoxide (51-03-6)	-	0.0439	0.351	2
Clofentezine (74115-24-5)	-	0.0439	0.351	0.2	Prallethrins (2331-36-9)	-	0.0439	0.351	0.2
Cyfluthrin (68359-37-5)	-	0.0439	0.351	1	Propiconazole (60207-90-1)	-	0.0439	0.351	0.4
Cypermethrin (52315-07-8)	-	0.0439	0.351	1	Propoxur (114-26-1)	-	0.0439	0.351	0.2
Daminozide (1596-84-5)	-	0.0439	0.351	1	Pyrethrins (8003-34-7)	-	0.0439	0.351	1
DDVP (62-73-7)	-	0.0439	0.351	0.1	Pyridaben (96489-71-3)	-	0.0439	0.351	0.2
Diazinon (333-41-5)	-	0.0439	0.351	0.2	Spinosad (168316-95-8)	-	0.0439	0.351	0.2
Dimethoate (60-51-5)	-	0.0439	0.351	0.2	Spiromesifen (283594-90-1)	-	0.0439	0.351	0.2
Ethoprophos (13194-48-4)	-	0.0439	0.351	0.2	Spirotetramat (203313-25-1)	-	0.0439	0.351	0.2
Etofenprox (80844-07-1)	-	0.0439	0.351	0.4	Spiroxamine (118134-30-8)	-	0.0439	0.351	0.4
Etoxazole (153233-91-1)	-	0.0439	0.351	0.2	Tebuconazole (80443-41-0)	-	0.0439	0.351	0.4
Fenoxycarb (72490-01-8)	-	0.0439	0.351	0.2	Thiacloprid (111988-49-9)	-	0.0439	0.351	0.2
(E)-Fenpyroximate (134098-61-6)	-	0.0439	0.351	0.4	Thiamethoxam (153719-23-4)	-	0.0439	0.351	0.2
Fipronil (120068-37-3)	-	0.0439	0.351	0.4	Trifloxystrobin (141517-21-7)	-	0.0439	0.351	0.2
Fonicamid (158062-67-0)	-	0.0439	0.351	1					
Fludioxinil (131341-86-1)	-	0.0439	0.351	0.4					
Hexythiazox (78587-05-0)	-	0.0439	0.351	1					
Imazalil (35554-44-0)	-	0.0439	0.351	0.2					
Imidacloprid (138261-41-3)	-	0.0439	0.351	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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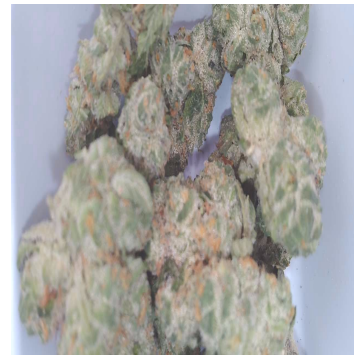
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HEAVY METAL PROFILE (SOP: SOP-ICP-200.6)

Analysis Date/Time: 01/31/2025 1311 **Method:** ICP/MS **Deviations from SOP:** None
Analyst: KF **Instrument:** Agilent 7500ce

<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)	-	58.1	92.0	200
Cadmium (Cd)	-	58.1	92.0	200
Lead (Pb)	-	58.1	92.0	500
Mercury (Hg)	-	58.1	92.0	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

Color Key



"DET" detected less than LOQ
 "-" not detected above LOD

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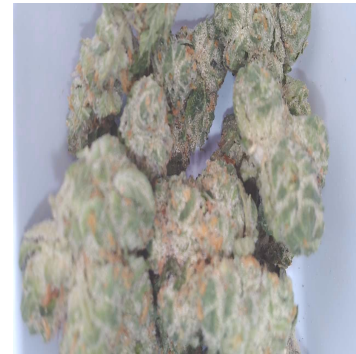
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MICROBIOLOGICAL PROFILE (SOP: SOP-Micro-001)

Analysis Date/Time: 01/31/2025 1145 **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

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