







## **SUMMARY OF ANALYSIS (SAMPLE ID: SA34176)**

Testing Location:Customer ID: 2161Order ID: OR10269Sample Type: PrimaryArkansasRiver Valley Relief CultivationLot Number:Matrix: Flower232 S. Broadview St.5601 Old Greenwood Rd Suite CM00065C13138280896Mass: 23g

Greenbrier, AR 72058 Fort Smith, AR 72903 **Production Run: Date Collected:** 01/18/2023 License: ADH 113 License: 00065C 2016H20221028CDG-3 **Date Received:** 01/18/2023 **Cultivar (Strain) or Sample Description:** Chem Dawg **Date Completed:** 01/23/2023

\*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 (%)
 Water Activity (aw)
 PASS/FAIL

 9.80
 0.408 @ 23.9°C
 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>Cannabino</u>	ids (Top 3)	<u>(%)</u>	mg/g
TH	CA	21.0	210
Δ9-٦	THC	0.780	7.80
THO	VA	0.254	2.54
TOTAL	CBD	-	-
TOTAL	THC	19.2	192
TOTAL CAN	NABINOIDS	22.0	220
<u>Terpenes</u>	s (Top 5)	<u>(%)</u>	<u>µ</u> g/g
Caryophyll	Caryophyllene oxide		3170
β-Муг	β-Myrcene		1390
d-Lim	d-Limonene		619
Lina	Linalool		516
β-Caryop	β-Caryophyllene		245
TOTAL TI	TOTAL TERPENES		6140
Contaminants	PASS/FAII	Sample Dictur	e Unon Receint

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







Scan the QR code to verify results.

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Cultivar (Strain) or Sample Description: Chem Dawg







## **CERTIFICATE OF ANALYSIS (SAMPLE ID: SA34176)**

**Testing Location:** Arkansas

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: OR10269

Lot Number:

M00065C13138280896 **Production Run:** 

2016H20221028CDG-3

Sample Type: Primary

Matrix: Flower

Mass: 23g

Water Activity (aw): 0.408 @ 23.88°C

**Date Collected:** 01/18/2023 **Date Received:** 01/18/2023

**Date Completed:** 01/23/2023

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

Analysis Date/Time: 1/20/2023 1704 Method: HPLC/DAD Moisture Content (%): 9.8

**Analyst:** PW **Instrument:** Agilent 1100

Instrument: Agilent 1100

Result Per P



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) +  $\Delta$ 9-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.

<u>Cannabinoid</u>	Result (%)	<u>UM</u> (+/-%)	Result (mg/g)	LOQ (mg/g)	Result (mg/ mL)	Per Serving (mg)	<u>Per</u> <u>Unit</u> (mg)	
CBC	-	-	-	1.11	-	-	-	
CBCA	-	-	-	3.45	-	-	-	
CBD	-	-	-	7.85	-	-	-	
CBDA	-	-	-	2.89	-	-	-	
CBDV	-	-	-	1.26	-	-	-	
CBDVA	-	-	-	3.36	-	-	-	
CBG	-	-	-	5.09	-	-	-	
CBGA	DET	-	DET	3.65	-	-	-	
CBL	-	-	-	5.88	-	-	-	
CBN	-	-	-	2.70	-	-	-	
CBNA	-	-	-	2.91	-	-	-	
Δ9-ΤΗС	0.780	0.0702	7.80	3.23	-	7.80	7.80	
Δ8-ΤΗС	-	-	-	5.05	-	-	-	
THCA	21.0	1.89	210	1.76	-	210	210	
THCV	-	-	-	4.21	-	-	-	
THCVA	0.254	0.00762	2.54	1.34	-	2.54	2.54	
TOTAL	22.0	1.96	220		· -	220	220	
TOTAL CBC	-	-	-		· -	-	-	
TOTAL CBD	-	-	-		-	-	-	
TOTAL CBDV	-	-	-		-	-	-	
TOTAL CBG	-	-	-		-	-	-	
TOTAL CBN	-	-	-		-	-	-	
TOTAL THC	19.2	1.73	192		-	192	192	
TOTAL THCV	0.220	0.00660	2.20		-	2.20	2.20	
* CBCA, CBDVA, C	* CBCA, CBDVA, CBL, CBNA, and THCVA are in process of being added to our accreditation scope.							

GBCA, CBDVA, CBL, CBNA, and THCVA are in process of being added to our accreditation scope.

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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## **CERTIFICATE OF ANALYSIS (SAMPLE ID: SA34176)**

**Testing Location:** Arkansas

232 S. Broadview St. Greenbrier, AR 72058 License: ADH 113

**Terpene** 

α-Bisabolol Camphene δ-3-Carene β-Caryophyllene

Caryophyllene

α-Humulene

Isopulegol

Linalool

β-Myrcene

cis-Nerolidol

α-Ocimene

**β-Ocimene** 

α-Pinene

**B-Pinene** 

α-Terpinene y-Terpinene Terpinolene

trans-Nerolidol

d-Limonene

oxide p-Cymene Eucalyptol Geraniol Guaiol

Customer ID: 2161

River Valley Relief Cultivation 5601 Old Greenwood Rd Suite C Fort Smith, AR 72903

Result

(%)

0.0245

0.317

0.0619

0.0516

0.139

0.0202

License: 00065C

Order ID: OR10269 Lot Number:

M00065C13138280896

**Production Run:** 2016H20221028CDG-3 Sample Type: Primary

Matrix: Flower **Mass:** 23g

**Date Collected:** 01/18/2023 **Date Received:** 01/18/2023

**Date Completed:** 01/23/2023

#### TERPENOID PROFILE

Analysis Date/Time:01/20/2023 2109

Cultivar (Strain) or Sample Description: Chem Dawg

Result

 $(\mu g/g)$ 

245

3170

619

516

1390

202

**Analyst: KF** 

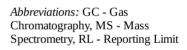
Method: GC/MS

Instrument: Agilent 7890/5975

**Deviations from SOP:** 

None





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"-" Not detected above RL

**TOTAL** 6140 0.614 Reporting Limit (µg/g): 46.3





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## **CERTIFICATE OF ANALYSIS (SAMPLE ID: SA34176)**

Testing Location:

Arkansas 232 S. Broadview St. Greenbrier, AR 72058

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: OR10269

**Lot Number:** M00065C13138280896

**Production Run:** 2016H20221028CDG-3

Sample Type: Primary

Matrix: Flower

**Mass:** 23g

**Date Collected:** 01/18/2023 **Date Received:** 01/18/2023

**Date Completed:** 01/23/2023

## PESTICIDES PROFILE (SOP: SOP-PEST-001)

**Analysis Date/Time:** 01/20/2023 1859

Cultivar (Strain) or Sample Description: Chem Dawg

Analyst: KF

Method: LC/MS/MS

Instrument: Shimadzu LC-8050

**Deviations from SOP:** 

None

<u>Pesticide</u>	Result (μg/g)	<u>LOD</u> (µg/g)	<u>LOQ</u> (µg/g)	<u>Action</u> <u>Level</u> (μg/g)	<u>Pesticide</u>	<u>Result</u> (μg/g)	<u>LOD</u> (µg/g)	LOQ (µg/g)	<u>Action</u> <u>Level</u> (μg/g)
Abamectin (71751-41-2)	-	0.0463	0.371	0.5	Kresoxim-methyl	_	0.0463	0.371	0.4
Acephate (30560-19-1)	-	0.0463	0.371	0.4	(143390-89-0)				
Acequinocyl (57960-19-7)	-	0.0463	0.371	2	Malathion (121-75-5)	-	0.0463	0.371	0.2
Acetamiprid (135410-20-7)	-	0.0463	0.371	0.2	Metalaxyl (57837-19-1) Methiocarb (2032-65-7)	-	0.0463 0.0463	0.371 0.371	0.2 0.2
Aldicarb (116-06-3)	-	0.0463	0.371	0.4	Methomyl (16752-77-5)	-	0.0463	0.371	0.4
Azoxystrobin (131860-33-8)	-	0.0463	0.371	0.2	Methyl parathion (298-0-0)	-	0.0463	0.371	0.2
Bifenazate (149877-41-8)	-	0.0463	0.371	0.2	MGK 264 (113-48-4)	-	0.0463	0.371	0.2
Bifenthrin (82657-04-3)	-	0.0463	0.371	0.2	Myclobutanil		0.0463	0.371	0.2
Boscalid (188425-85-6)	-	0.0463	0.371	0.4	(88671-89-0)	_	0.0403	0.371	0.2
Carbaryl (63-25-2)	-	0.0463	0.371	0.2	Naled (300-76-5)	-	0.0463	0.371	0.5
Carbofuran (1563-66-2)	_	0.0463	0.371	0.2	Oxamyl (23135-22-0)	-	0.0463	0.371	1
Chlorantraniliprole (800008-45-7)	-	0.0463	0.371	0.2	Paclobutrazol (76738-62-0)	-	0.0463	0.371	0.4
Chlorfenapyr		0.0463	0.071		Permethrins (52645-53-1)	-	0.0463	0.371	0.2
(122453-73-0)	-	0.0463	0.371	1	Phosmet (732-11-6)	-	0.0463	0.371	0.2
Chlorpyrifos (2921-88-2)	-	0.0463	0.371	0.2	Piperonyl butoxide	_	0.0463	0.371	2
Clofentezine (74115-24-5)	-	0.0463	0.371	0.2	(51-03-6)				
Cyfluthrin (68359-37-5)	-	0.0463	0.371	1	Prallethrins (2331-36-9)	-	0.0463	0.371	0.2
Cypermethrin (52315-07-8)	-	0.0463	0.371	1	Propiconazole (60207-90-1))	-	0.0463	0.371	0.4
Daminozide (1596-84-5)	-	0.0463	0.371	1	Propoxur (114-26-1)	-	0.0463	0.371	0.2
DDVP (62-73-7)	-	0.0463	0.371	0.1	Pyrethrins (8003-34-7)	-	0.0463	0.371	1
Diazinon (333-41-5)	-	0.0463	0.371	0.2	Pyridaben (96489-71-3)	-	0.0463	0.371	0.2
Dimethoate (60-51-5)	-	0.0463	0.371	0.2	Spinosad (168316-95-8)	-	0.0463	0.371	0.2
Ethoprophos (13194-48-4)	-	0.0463	0.371	0.2	Spiromesifen (283594-90-1)	_	0.0463	0.371	0.2
Etofenprox (80844-07-1)	-	0.0463	0.371	0.4	Spirotetramat				
Etoxazole (153233-91-1)	-	0.0463	0.371	0.2	(203313-25-1)	-	0.0463	0.371	0.2
Fenoxycarb (72490-01-8)	-	0.0463	0.371	0.2	Spiroxamine		0.0463	0.371	0.4
(E)-Fenpyroximate (134098-61-6)	-	0.0463	0.371	0.4	(118134-30-8) Tebuconazole				
Fipronil (120068-37-3)	-	0.0463	0.371	0.4	(80443-41-0)	-	0.0463	0.371	0.4
Flonicamid (158062-67-0)	-	0.0463	0.371	1	Thiacloprid	2	0.0463	0.371	0.2
Fludioxinil (131341-86-1)	-	0.0463	0.371	0.4	(111988-49-9)		0.0.100	0.071	0.2
Hexythiazox (78587-05-0)	-	0.0463	0.371	1	Thiamethoxam (153719-23-4)	-	0.0463	0.371	0.2
Imazalil (35554-44-0)	-	0.0463	0.371	0.2	(153719-25-4) Trifloxystrobin				
Imidacloprid (138261-41-3)	-	0.0463	0.371	0.4	(141517-21-7)		0.0463	0.371	0.2



Color Key

# 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

<u>Pesticide</u>	Synonym(s)	<u>Pesticide</u>	Synonym(s)	<u>Pesticide</u>	Synonym(s)
Cyfluthrin	Baythroid	Myclobutanil	Systhane	Propiconazole	Tilt
DDVP	Dichlorvos	Naled	Dibrom	Propoxur	Baygon
Ethoprophos	Prophos	Phosmet	Imidan		





REPORT OF LABORATORY ANALYSIS







M00065C13138280896



## **CERTIFICATE OF ANALYSIS (SAMPLE ID: SA34176)**

Testing Location:Customer ID: 2161Order ID: OR10269Sample Type: PrimaryArkansasRiver Valley Relief CultivationLot Number:Matrix: Flower

 Greenbrier, AR 72058
 Fort Smith, AR 72903
 Production Run:
 Date Collected: 01/18/2023

 License: ADH 113
 License: 00065C
 2016H20221028CDG-3
 Date Received: 01/18/2023

Cultivar (Strain) or Sample Description: Chem Dawg

Date Completed: 01/23/2023

# **HEAVY METAL PROFILE (SOP: SOP-ICP-200.7)**

Analysis Date/Time: 01/20/2023 1440 (ICP/OES) Method: ICP/OES Deviations from SOP:

Analysis Date/Time: - (DMA) Instrument: Agilent 720-ES None

5601 Old Greenwood Rd Suite C

**Analyst:** KF

232 S. Broadview St.

<u>Heavy Metal</u>	<u>Result</u> (μg/kg)	<u>LOD</u> (µg/kg)	LOQ (µg/kg)	<u>Action Level</u> (μg/kg)
Arsenic (As)	-	56.9	90.1	200
Cadmium (Cd)	-	56.9	90.1	200
Lead (Pb)	-	56.9	90.1	500
Mercury (Hg)	-	56.9	90.1	100



**Mass:** 23g

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

"DET" detected less than LOQ

"-" not detected above LOD

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

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## **CERTIFICATE OF ANALYSIS (SAMPLE ID: SA34176)**

Testing Location:Customer ID: 2161Sample ID: SA34176Sample Type: PrimaryArkansasRiver Valley Relief CultivationLot Number:Matrix: Flower232 S. Broadview St.5601 Old Greenwood Rd Suite CM00065C13138280896Mass: 23g

 Greenbrier, AR 72058
 Fort Smith, AR 72903
 Production Run:
 Date Collected: 01/18/2023

 License: ADA 05\_H273
 License: 00065C
 2016H20221028CDG-3
 Date Received: 01/18/2023

Cultivar (Strain) or Sample Description: Chem Dawg

Date Completed: 01/23/2023

# MICROBIOLOGICAL PROFILE (SOP: SOP-Micro-001)

Analysis Date/Time: 20230120 1138 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	1
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)

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