

License: ADH 113





2016H20221028CDG2



Date Received: 12/28/2022

SUMMARY OF ANALYSIS (SAMPLE ID: SA34007)

Testing Location:Customer ID: 2161Order ID: OR10240Sample Type: PrimaryArkansasRiver Valley Relief CultivationLot Number:Matrix: Flower

232 S. Broadview St. 5601 Old Greenwood Rd Suite C M00065C13131808108 Mass: 12g
Greenbrier, AR 72058 Fort Smith, AR 72903 Production Run: Date Collected: 12/28/2022

Cultivar (Strain) or Sample Description: Chem Dawg

Date Completed: 12/30/2022

*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

 14.8
 0.491 @ 24.2°C
 PASS

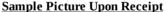
Moisture content/water activity action levels are referenced from the State of Arkansas MMJ testing guidelines.

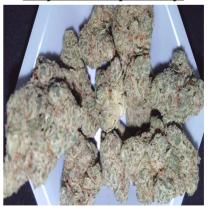
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Moisture content levels less than 15% are recommended but the sample does not fail. Water activity levels must be less than 0.65aw.

<u>Cannabin</u>	oids (Top 3)	<u>(%)</u>	mg/g
TH	CA	25.3	253
Δ9-′	ГНС	1.11	11.1
CB	GA	0.633	6.33
TOTA	L CBD	-	-
TOTA	LTHC	23.3	233
TOTAL CAN	NABINOIDS	27.3	273
<u>Terpene</u>	s (Top 5)	<u>(%)</u>	<u>µg</u> /g
β-Му	rcene	0.221	2210
d-Lim	onene	0.150	1500
Caryophyl	lene oxide	0.0886	886
Lina	alool	0.0807	807
β-Pi	nene	0.0597	597
TOTAL T	ERPENES	0.828	8280
Contaminants	PASS/FAIL	Samula Diatum	e Unon Receipt

Contaminants	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: SA34007)

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: OR10240 Lot Number:

M00065C13131808108

Production Run: 2016H20221028CDG2 Sample Type: Primary

Matrix: Flower **Mass:** 12g

Date Collected: 12/28/2022 **Date Received:** 12/28/2022

Date Completed: 12/30/2022

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

Analysis Date/Time: 12/29/2022 1917 Method: HPLC/DAD Moisture Content (%): 14.8359 **Analyst: PW Instrument:** Agilent 1100 Water Activity (aw): 0.491 @ 24.2°C

Result (%)	<u>UM</u> (+/-%)	Result (mg/g)	LOQ (mg/g)	Result (mg/ mL)	Per Serving (mg)	Per g <u>Unit</u> (mg)
-	-	-	1.09	-	-	-
-	-	-	1.09	-	-	-
-	-	-	1.09	-	-	-
-	-	-	1.09	-	-	-
-	-	-	1.09	-	-	-
DET	-	DET	1.09	-	-	-
-	-	-	1.09	-	-	-
0.633	0.0570	6.33	1.09	-	6.33	6.33
-	-	-	1.09	-	-	-
-	-	-	1.09	-	-	-
-	-	-	1.09	-	-	-
1.11	0.0996	11.1	1.09	-	11.1	11.1
-	-	-	1.09	-	-	-
25.3	2.28	253	1.09	-	253	253
-	-	-	1.09	-	-	-
0.260	0.0234	2.60	1.09	-	2.60	2.60
27.3	2.46	273		_	273	273
-	_	-		_	_	-
-	-	-		-	-	-
-	-	-		-	-	-
0.556	0.0500	5.56		-	5.56	5.56
-	-	-		-	-	-
23.3	2.10	233		-	233	233
0.225	0.0203	2.25		-	2.25	2.25
	(%) 0.633 1.11 - 25.3 - 0.260 27.3 0.556 - 23.3 0.225	(%) (+/-%) - - - - - - - - DET - - - 0.633 0.0570 - - - - 1.11 0.0996 - - 25.3 2.28 - - 0.260 0.0234 27.3 2.46 - - - - 0.556 0.0500 - - 23.3 2.10 0.225 0.0203	(%) (+/-%) (mg/g) - - - - - - - - - - - - - - - DET - - DET - - 0.633 0.0570 6.33 - - - - - - - - - - - - 1.11 0.0996 11.1 - - - 25.3 2.28 253 - - - 0.260 0.0234 2.60 27.3 2.46 273 - - - - - - - - - 0.556 0.0500 5.56 - - - 23.3 2.10 233 0.225 0.0203	(%) (+/-%) (mg/g) (mg/g) - - 1.09 - - 1.09 - - 1.09 - - 1.09 - - 1.09 DET 1.09 1.09 - - 1.09 0.633 0.0570 6.33 1.09 - - - 1.09 - - - 1.09 - - - 1.09 1.11 0.0996 11.1 1.09 25.3 2.28 253 1.09 25.3 2.28 253 1.09 0.260 0.0234 2.60 1.09 27.3 2.46 273 - - - - 0.556 0.0500 5.56 - - - - 23.3 2.10 233 0.225 0.0203 2.25 <td>Result (%) LOQ (mg/g) (mg/g) - - 1.09 - - - 1.09 - - - 1.09 - - - 1.09 - - - 1.09 - - - 1.09 - - - 1.09 - - - 1.09 - - - 1.09 - - - 1.09 - - - 1.09 - - - 1.09 - - - 1.09 - - - 1.09 - - - 1.09 - - - 1.09 - - - 1.09 - - - 1.09 - - - 1.09 - - - 1.09</td> <td>Kesin (%) Livit (mg/g) Livit (mg/g) Serving (mg/g) - - 1.09 - - - - 1.09 - - - - 1.09 - - - - 1.09 - - - - 1.09 - - - - 1.09 - - DET 1.09 - - - 0.633 0.0570 6.33 1.09 - - 0.633 0.0570 6.33 1.09 - - - - 1.09 - - - - 1.09 - - 1.11 0.0996 11.1 1.09 - 11.1 - - 1.09 - 253 - - 1.09 - 253 - - 1.09 - 253 - -</td>	Result (%) LOQ (mg/g) (mg/g) - - 1.09 - - - 1.09 - - - 1.09 - - - 1.09 - - - 1.09 - - - 1.09 - - - 1.09 - - - 1.09 - - - 1.09 - - - 1.09 - - - 1.09 - - - 1.09 - - - 1.09 - - - 1.09 - - - 1.09 - - - 1.09 - - - 1.09 - - - 1.09 - - - 1.09 - - - 1.09	Kesin (%) Livit (mg/g) Livit (mg/g) Serving (mg/g) - - 1.09 - - - - 1.09 - - - - 1.09 - - - - 1.09 - - - - 1.09 - - - - 1.09 - - DET 1.09 - - - 0.633 0.0570 6.33 1.09 - - 0.633 0.0570 6.33 1.09 - - - - 1.09 - - - - 1.09 - - 1.11 0.0996 11.1 1.09 - 11.1 - - 1.09 - 253 - - 1.09 - 253 - - 1.09 - 253 - -

^{*} CBCA, 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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SERVING MASS (g): 1.00 **SERVINGS/UNIT: 1**

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 = $(CBCA \times 0.877) + CBC$ Total CBD = $(CBDA \times 0.877) + CBD$ Total CBDV = (CBDVA \times 0.867) + CBDV Total CBG = $(CBGA \times 0.878) + CBG$ Total CBN = $(CBNA \times 0.876) + CBN$ 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.





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12/30/2022

[&]quot;-" Not detected above LOD.









CERTIFICATE OF ANALYSIS (SAMPLE ID: SA34007)

Testing Location:

Arkansas 232 S. Broadview St. Greenbrier, AR 72058

Terpene

α-Bisabolol Camphene

δ-3-Carene β-Caryophyllene

oxide p-Cymene Eucalyptol Geraniol

Guaiol

α-Humulene

Isopulegol

Linalool

β-Myrcene

cis-Nerolidol

α-Ocimene

β-Ocimene

α-Pinene

B-Pinene

TOTAL

α-Terpinene y-Terpinene Terpinolene

trans-Nerolidol

d-Limonene

Caryophyllene

License: ADH 113

Customer ID: 2161

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

> Result **(%)**

0.0200

0.0485

0.0886

0.0330

0.0191

0.150

0.0807

0.221

0.0241

0.0296

0.0187

0.0597

0.0356

0.828

License: 00065C

Order ID: OR10240 Lot Number:

M00065C13131808108

Production Run: 2016H20221028CDG2 Sample Type: Primary

Matrix: Flower **Mass:** 12g

Date Collected: 12/28/2022 **Date Received:** 12/28/2022

Date Completed: 12/30/2022

TERPENOID PROFILE

Analysis Date/Time:12/29/2022 2111

Result

 $(\mu g/g)$

200

485

886

330

191

1500

807

2210

241

296

187

597

356

8280

Analyst: KF

Cultivar (Strain) or Sample Description: Chem Dawg

Method: GC/MS

Instrument: Agilent 7890/5975

Deviations from SOP:

None



Abbreviations: GC - Gas Chromatography, MS - Mass Spectrometry, RL - Reporting Limit

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"-" Not detected above RL

Reporting Limit (µg/g): 46.0





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CERTIFICATE OF ANALYSIS (SAMPLE ID: SA34007)

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: OR10240

Lot Number: M00065C13131808108

Production Run: 2016H20221028CDG2

Matrix: Flower **Mass:** 12g

Date Collected: 12/28/2022 **Date Received:** 12/28/2022

Sample Type: Primary

Date Completed: 12/30/2022

PESTICIDES PROFILE (SOP: SOP-PEST-001)

Analysis Date/Time: 12/29/2022 1951

Cultivar (Strain) or Sample Description: Chem Dawg

Analyst: KF

Method: LC/MS/MS

Instrument: Shimadzu LC-8050

Deviations from SOP:

None

<u>Pesticide</u>	<u>Result</u> (μg/g)	<u>LOD</u> (µg/g)	LOQ (µg/g)	Action Level (µg/g)	<u>Pesticide</u>	Result (μg/g)	LOD (µg/g)	LOQ (µg/g)	Action Level (µg/g)
Abamectin (71751-41-2)	-	0.0460	0.368	0.5	Kresoxim-methyl	_	0.0460	0.368	0.4
Acephate (30560-19-1)	-	0.0460	0.368	0.4	(143390-89-0)				
Acequinocyl (57960-19-7)	-	0.0460	0.368	2	Malathion (121-75-5)	-	0.0460	0.368	0.2
Acetamiprid (135410-20-7)	-	0.0460	0.368	0.2	Metalaxyl (57837-19-1) Methiocarb (2032-65-7)	-	0.0460 0.0460	0.368 0.368	0.2 0.2
Aldicarb (116-06-3)	-	0.0460	0.368	0.4	Methomyl (16752-77-5)	-	0.0460	0.368	0.4
Azoxystrobin (131860-33-8)	-	0.0460	0.368	0.2	Methyl parathion (298-0-0)	-	0.0460	0.368	0.2
Bifenazate (149877-41-8)	-	0.0460	0.368	0.2	MGK 264 (113-48-4)	-	0.0460	0.368	0.2
Bifenthrin (82657-04-3)	-	0.0460	0.368	0.2	Myclobutanil		0.0460	0.368	0.2
Boscalid (188425-85-6)	-	0.0460	0.368	0.4	(88671-89-0)		0.0400	0.500	0.2
Carbaryl (63-25-2)	-	0.0460	0.368	0.2	Naled (300-76-5)	-	0.0460	0.368	0.5
Carbofuran (1563-66-2)	-	0.0460	0.368	0.2	Oxamyl (23135-22-0)	-	0.0460	0.368	1
Chlorantraniliprole (800008-45-7)	-	0.0460	0.368	0.2	Paclobutrazol (76738-62-0)	-	0.0460	0.368	0.4
Chlorfenapyr		0.0460	0.200		Permethrins (52645-53-1)	-	0.0460	0.368	0.2
(122453-73-0)	-	0.0460	0.368	1	Phosmet (732-11-6)	-	0.0460	0.368	0.2
Chlorpyrifos (2921-88-2)	-	0.0460	0.368	0.2	Piperonyl butoxide	_	0.0460	0.368	2
Clofentezine (74115-24-5)	-	0.0460	0.368	0.2	(51-03-6)				
Cyfluthrin (68359-37-5)	-	0.0460	0.368	1	Prallethrins (2331-36-9)	-	0.0460	0.368	0.2
Cypermethrin (52315-07-8)	-	0.0460	0.368	1	Propiconazole (60207-90-1))	-	0.0460	0.368	0.4
Daminozide (1596-84-5)	-	0.0460	0.368	1	Propoxur (114-26-1)	-	0.0460	0.368	0.2
DDVP (62-73-7)	-	0.0460	0.368	0.1	Pyrethrins (8003-34-7)	-	0.0460	0.368	1
Diazinon (333-41-5)	_	0.0460	0.368	0.2	Pyridaben (96489-71-3)	-	0.0460	0.368	0.2
Dimethoate (60-51-5)	-	0.0460	0.368	0.2	Spinosad (168316-95-8)	-	0.0460	0.368	0.2
Ethoprophos (13194-48-4)	-	0.0460	0.368	0.2	Spiromesifen	_	0.0460	0.368	0.2
Etofenprox (80844-07-1)	-	0.0460	0.368	0.4	(283594-90-1)				
Etoxazole (153233-91-1)	-	0.0460	0.368	0.2	Spirotetramat (203313-25-1)	-	0.0460	0.368	0.2
Fenoxycarb (72490-01-8)	-	0.0460	0.368	0.2	Spiroxamine				
(E)-Fenpyroximate (134098-61-6)	-	0.0460	0.368	0.4	(118134-30-8) Tebuconazole	-	0.0460	0.368	0.4
Fipronil (120068-37-3)		0.0460	0.368	0.4	(80443-41-0)	-	0.0460	0.368	0.4
Flonicamid (158062-67-0)		0.0460	0.368	1	Thiacloprid		0.0460	0.368	0.2
Fludioxinil (131341-86-1)		0.0460	0.368	0.4	(111988-49-9)		0.0460	0.300	0.2



Color Key

"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

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

0.0460

0.0460

0.368

0.368

0.2

0.2

<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		

Thiamethoxam

(153719-23-4)

Trifloxystrobin

(141517-21-7)



Fludioxinil (131341-86-1)

Hexythiazox (78587-05-0)

Imazalil (35554-44-0)

Imidacloprid

(138261-41-3)

0.0460

0.0460

0.0460

0.368

0.368

0.368

0.368

0.4

1

0.2

0.4











CERTIFICATE OF ANALYSIS (SAMPLE ID: SA34007)

Testing Location:Customer ID: 2161Order ID: OR10240Sample Type: PrimaryArkansasRiver Valley Relief CultivationLot Number:Matrix: Flower

232 S. Broadview St. 5601 Old Greenwood Rd Suite C M00065C13131808108 Mass: 12g
Greenbrier, AR 72058 Fort Smith, AR 72903 Production Run: Date Collected: 12/28/2022

License: ADH 113 License: 00065C 2016H20221028CDG2 **Date Received:** 12/28/2022 **Cultivar (Strain) or Sample Description:** Chem Dawg **Date Completed:** 12/30/2022

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

Analysis Date/Time: 12/30/2022 1057 (ICP/OES) Method: ICP/OES Deviations from SOP:

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

Analyst: KF

Heavy Metal	<u>Result</u> (μg/kg)	<u>LOD</u> (μg/kg)	<u>LOQ</u> (µg/kg)	<u>Action Level</u> (μg/kg)
Arsenic (As)	-	58.2	92.1	200
Cadmium (Cd)	-	58.2	92.1	200
Lead (Pb)	-	58.2	92.1	500
Mercury (Hg)	_	58.2	92.1	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

"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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License: ADA 05 H273





2016H20221028CDG2



Date Received: 12/28/2022

CERTIFICATE OF ANALYSIS (SAMPLE ID: SA34007)

Testing Location:Customer ID: 2161Sample ID: SA34007Sample Type: PrimaryArkansasRiver Valley Relief CultivationLot Number:Matrix: Flower

232 S. Broadview St. 5601 Old Greenwood Rd Suite C M00065C13131808108 Mass: 12g
Greenbrier, AR 72058 Fort Smith, AR 72903 Production Run: Date Collected: 12/28/2022

Cultivar (Strain) or Sample Description: Chem Dawg

Date Completed: 12/30/2022

MICROBIOLOGICAL PROFILE (SOP: SOP-Micro-001)

Analysis Date/Time: 12/30/2022 1336 **Method:** Hardy Diagnostics CompactDry **Deviations from SOP:**

Analyst: PW Instrument: Thermo Incubator None

Bacteria/Microbe	<u>Result</u> (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	-

License: 00065C



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)

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.

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