

SUMMARY OF ANALYSIS (SAMPLE ID: SA35651)

Testing Location:	Customer ID: 2168	Order ID: OR10532	Sample Type: Primary
Arkansas	River Valley Relief MIPS	Lot Number:	Matrix: Concentrate
232 S. Broadview St.	5601 Old Greenwood Rd Suite C	M00065C13240341065	Mass: 4grams
Greenbrier, AR 72058	Fort Smith, AR 72903	Production Run:	Date Collected: 07/17/2023
License: ADH 113	License: 00065C	E20230717CDGLD02	Date Received: 07/17/2023
Cultivar (Strain) or Sample Description: Chem Dawg Indica Live Diamonds 1g Jar			Date Completed: 07/20/2023

*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 (%)

Not Tested

Water Activity (aw)

Not Tested

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	93.3	933
Δ9-THC	4.11	41.1
CBN	1.16	11.6
TOTAL CBD	-	-
TOTAL THC	85.9	859
TOTAL CANNABINOIDS	99.6	996

Terpenes (Top 5)	(%)	µg/g
d-Limonene	0.503	5030
trans-Nerolidol	0.399	3990
β-Myrcene	0.389	3890
β-Pinene	0.332	3320
β-Caryophyllene	0.228	2280
TOTAL TERPENES	2.09	20900

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

Sample Picture Upon Receipt



Scan the QR code to verify results.

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www.FASTLaboratories.com

Kyle W. Felling
Kyle W. Felling, Ph.D.
Laboratory Director



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License: ADH 113	License: 00065C	E20230717CDGLD02	Date Received: 07/17/2023
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CANNABINOID (POTENCY) PROFILE (SOP: SOP-CANN-001)

Analysis Date/Time: 07/18/2023 2106
Analyst: PW

Method: HPLC/DAD
Instrument: Agilent 1100

Moisture Content (%): -
Water Activity (aw): -

<u>Cannabinoid</u>	<u>Result</u> (%)	<u>Result</u> (mg/g)	<u>LOD</u> (mg/g)	<u>LOQ</u> (mg/g)	<u>Result</u> (mg/ mL)	<u>Per</u> <u>Serving</u> (mg)	<u>Per</u> <u>Unit</u> (mg)
CBC	ND	ND	0.108	0.253	-	-	-
CBCA	ND	ND	0.336	0.784	-	-	-
CBD	ND	ND	0.763	1.78	-	-	-
CBDV	ND	ND	0.122	0.286	-	-	-
CBDVA	ND	ND	0.327	0.762	-	-	-
CBG	ND	ND	0.496	1.16	-	-	-
CBGA	0.491	4.91	0.703	0.829	-	4.91	4.91
CBL	ND	ND	0.572	1.34	-	-	-
CBN	1.16	11.6	0.263	0.614	-	11.6	11.6
CBNA	ND	ND	0.284	0.662	-	-	-
Δ9-THC	4.11	41.1	0.315	0.735	-	41.1	41.1
Δ8-THC	ND	ND	0.492	1.15	-	-	-
THCA	93.3	933	0.171	0.400	-	933	933
THCV	ND	ND	0.410	0.956	-	-	-
THCVA	0.509	5.09	0.131	0.305	-	5.09	5.09
TOTAL	99.6	996			-	996	996
TOTAL CBC	-	-			-	-	-
TOTAL CBD	-	-			-	-	-
TOTAL CBDV	-	-			-	-	-
TOTAL CBG	0.431	4.31			-	4.31	4.31
TOTAL CBN	1.16	11.6			-	11.6	11.6
TOTAL THC	85.9	859			-	859	859
TOTAL THCV	0.441	4.41			-	4.41	4.41



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 = (CBDV 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, UM - Measurement Uncertainty

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Cultivar (Strain) or Sample Description: Chem Dawg Indica Live Diamonds 1g Jar **Date Completed:** 07/20/2023

TERPENOID PROFILE

Analysis Date/Time: 07/19/2023 2057

Method: GC/MS

Deviations from SOP:

Analyst: KF

Instrument: Agilent 7890/5975

None

<u>Terpene</u>	<u>Result</u> <u>(µg/g)</u>	<u>Result</u> <u>(%)</u>	
α-Bisabolol	ND	-	
Camphene	<LOQ	-	
δ-3-Carene	ND	-	
β-Caryophyllene	2280	0.228	■
Caryophyllene oxide	ND	-	
p-Cymene	ND	-	
Eucalyptol	ND	-	
Geraniol	ND	-	
Guaiol	ND	-	
α-Humulene	949	0.0949	■
Isopulegol	ND	-	
d-Limonene	5030	0.503	■
Linalool	ND	-	
β-Myrcene	3890	0.389	■
cis-Nerolidol	949	0.0949	■
trans-Nerolidol	3990	0.399	■
α-Ocimene	ND	-	
β-Ocimene	ND	-	
α-Pinene	475	0.0475	■
β-Pinene	3320	0.332	■
α-Terpinene	ND	-	
γ-Terpinene	ND	-	
Terpinolene	ND	-	
TOTAL	20900	2.09	



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): 237

"-" Not detected above LOD.

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Cultivar (Strain) or Sample Description: Chem Dawg Indica Live Diamonds 1g Jar **Date Completed:** 07/20/2023

RESIDUAL SOLVENT PROFILE (SOP: SOP-RS-001)

Analysis Date/Time: 07/19/2023 0749 **Method:** HS/GC/MS **Deviations from SOP:**
Analyst: KF **Instrument:** Agilent 7890/5975 **None**

<u>Solvent</u>	<u>Result</u> (µg/g)	<u>LOD</u> (µg/g)	<u>LOQ</u> (µg/g)	<u>Action Level</u> (µg/g)	<u>Solvent</u>	<u>Result</u> (µg/g)	<u>LOD</u> (µg/g)	<u>LOQ</u> (µg/g)	<u>Action Level</u> (µg/g)
Acetone (67-64-1)	-	128	256	5000	n-Heptane (142-82-5)	-	128	256	5000
Acetonitrile (75-5-8)	-	128	256	410	n-Hexane (110-54-3)	-	44.9	89.7	290
Benzene (71-43-2)	-	1.28	2.56	2	Isobutane (75-28-5)	-	128	256	5000
n-Butane (106-97-2)	-	128	256	5000	Isopropanol (67-63-0)	-	128	256	5000
1-Butanol (71-36-3)	-	128	256	5000	Isopropyl acetate (108-21-4)	-	128	256	5000
2-Butanol (78-92-2)	-	128	256	5000	Isopropyl benzene (98-82-8)	-	12.8	25.6	70
2-Butanone (78-93-3)	-	128	256	5000	Methanol (67-56-1)	-	128	256	3000
Cyclohexane (110-82-7)	-	128	256	3880	2-Methylbutane (78-78-4)	-	128	256	5000
1,2-Dimethoxyethane (110-71-4)	-	12.8	25.6	100	Methylene chloride (75-9-2)	-	128	256	600
N,N-Dimethylacetamide (127-19-5)	-	128	256	1090	2-Methylpentane (107-83-5)	-	44.9	89.7	290
2,2-Dimethylbutane (75-83-2)	-	44.9	89.7	290	3-Methylpentane (96-10-0)	-	44.9	89.7	290
2,3-Dimethylbutane (79-29-8)	-	44.9	89.7	290	n-Pentane (109-66-0)	-	128	256	5000
N,N-Dimethylformamide (68-12-2)	-	128	256	880	1-Pentanol (71-41-0)	-	128	256	5000
Dimethylsulfoxide (67-68-5)	-	128	256	5000	n-Propane (74-98-6)	-	128	256	5000
1,4-Dioxane (123-91-1)	-	128	256	380	1-Propanol (71-23-8)	-	128	256	5000
Ethanol (64-17-5)	-	128	256	5000	Pyridine (110-86-1)	-	44.9	89.7	200
2-Ethoxyethanol (110-80-5)	-	44.9	89.7	160	Tetrahydrofuran (109-99-9)	-	128	256	720
Ethyl ether (60-29-7)	-	128	256	5000	Tetramethylene sulfone (126-33-0)	-	44.9	89.7	160
Ethyl acetate (141-78-6)	-	128	256	5000	Toluene (108-88-3)	-	128	256	890
Ethyl benzene (100-41-4)	-	128	256	2170	o-Xylene (95-47-6)	-	128	256	2170
Ethylene glycol (107-21-1)	-	128	256	620	m,p-Xylene (108-38-3 or 106-42-3)	-	128	256	2170
Ethylene oxide (75-21-8)	-	12.8	25.6	50	Xylenes* (1330-20-7)	-	43.3	86.7	2170



Color Key

RESULT < AL

RESULT > AL

"DET" detected less than LOQ

"-" not detected above LOD

"*" - o,m,p-Xylene and Ethylbenzene

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.

<u>Solvent</u>	<u>Synonym(s)</u>	<u>Solvent</u>	<u>Synonym(s)</u>
Acetonitrile	Methyl Cyanide, ACN	Ethylene glycol	1,2-Ethanediol
1-Butanol	n-Butanol, Butyl Alcohol	Isobutane	2-Methylpropane
2-Butanol	sec-Butyl alcohol	Isopropanol	2-Propanol, IPA
2-Butanone	Methyl ethyl ketone, MEK	Isopropyl Acetate	Acetic acid isopropyl ester
1,2-Dimethoxyethane	Monoglyme	Methanol	Methyl alcohol
2,3-Dimethylbutane	Neohexane	2-Methylbutane	Isopentane
2,3-Dimethylbutane	Diisopropyl	Methylene chloride	Dichloromethane
N,N-Dimethylformamide	DMF	2-Methylpentane	Isohexane
Dimethylsulfoxide	DMSO	1-Pentanol	n-Amyl alcohol
2-Ethoxyethanol	Cellosolve, Ethyl glycol	1-Propanol	Propyl alcohol
Ethyl ether	Diethyl ether, Ether	Tetrahydrofuran	THF
Ethyl acetate	EtOAc	Tetramethylene sulfone	Sulfolane
Ethyl benzene	Phenylethane	Xylene	Dimethylbenzene

Abbreviations: HS-Headspace, GC-Gas Chromatography, MS-Mass Spectrometry, RL-Reporting Limit, AL-Action Level, CAS-Chemical Abstract Services, LOD - Limit of Detection, LOQ - Limit of Quantification

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PESTICIDES PROFILE (SOP: SOP-PEST-001)

Analysis Date/Time: 07/18/2023 2342

Analyst: KF

Method: LC/MS/MS

Instrument: Shimadzu LC-8050

Deviations from SOP:

None

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)	-	0.0474	0.380	0.5	Kresoxim-methyl (143390-89-0)	-	0.0474	0.380	0.4
Acephate (30560-19-1)	-	0.0474	0.380	0.4	Malathion (121-75-5)	-	0.0474	0.380	0.2
Acetaminophen (57960-19-7)	-	0.0474	0.380	2	Metalaxyl (57837-19-1)	-	0.0474	0.380	0.2
Acetamiprid (135410-20-7)	-	0.0474	0.380	0.2	Methiocarb (2032-65-7)	-	0.0474	0.380	0.2
Aldicarb (116-06-3)	-	0.0474	0.380	0.4	Methomyl (16752-77-5)	-	0.0474	0.380	0.4
Azoxystrobin (131860-33-8)	-	0.0474	0.380	0.2	Methyl parathion (298-0-0)	-	0.0474	0.380	0.2
Bifenazate (149877-41-8)	-	0.0474	0.380	0.2	MGK 264 (113-48-4)	-	0.0474	0.380	0.2
Bifenthrin (82657-04-3)	-	0.0474	0.380	0.2	Myclobutanil (88671-89-0)	-	0.0474	0.380	0.2
Boscalid (188425-85-6)	-	0.0474	0.380	0.4	Naled (300-76-5)	-	0.0474	0.380	0.5
Carbaryl (63-25-2)	-	0.0474	0.380	0.2	Oxamyl (23135-22-0)	-	0.0474	0.380	1
Carbofuran (1563-66-2)	-	0.0474	0.380	0.2	Paclobutrazol (76738-62-0)	-	0.0474	0.380	0.4
Chlorantraniliprole (800008-45-7)	-	0.0474	0.380	0.2	Permethrins (52645-53-1)	-	0.0474	0.380	0.2
Chlorfenapyr (122453-73-0)	-	0.0474	0.380	1	Phosmet (732-11-6)	-	0.0474	0.380	0.2
Chlorpyrifos (2921-88-2)	-	0.0474	0.380	0.2	Piperonyl butoxide (51-03-6)	-	0.0474	0.380	2
Clofentezine (74115-24-5)	-	0.0474	0.380	0.2	Prallethrin (2331-36-9)	-	0.0474	0.380	0.2
Cyfluthrin (68359-37-5)	-	0.0474	0.380	1	Propiconazole (60207-90-1))	-	0.0474	0.380	0.4
Cypermethrin (52315-07-8)	-	0.0474	0.380	1	Propoxur (114-26-1)	-	0.0474	0.380	0.2
Daminozide (1596-84-5)	-	0.0474	0.380	1	Pyrethrins (8003-34-7)	-	0.0474	0.380	1
DDVP (62-73-7)	-	0.0474	0.380	0.1	Pyridaben (96489-71-3)	-	0.0474	0.380	0.2
Diazinon (333-41-5)	-	0.0474	0.380	0.2	Spinosad (168316-95-8)	-	0.0474	0.380	0.2
Dimethoate (60-51-5)	-	0.0474	0.380	0.2	Spiromesifen (283594-90-1)	-	0.0474	0.380	0.2
Ethoprophos (13194-48-4)	-	0.0474	0.380	0.2	Spirotetramat (203313-25-1)	-	0.0474	0.380	0.2
Etofenprox (80844-07-1)	-	0.0474	0.380	0.4	Spiroxamine (118134-30-8)	-	0.0474	0.380	0.4
Etoazazole (153233-91-1)	-	0.0474	0.380	0.2	Tebuconazole (80443-41-0)	-	0.0474	0.380	0.4
Fenoxycarb (72490-01-8)	-	0.0474	0.380	0.2	Thiacloprid (111988-49-9)	-	0.0474	0.380	0.2
(E)-Fenpyroximate (134098-61-6)	-	0.0474	0.380	0.4	Thiamethoxam (153719-23-4)	-	0.0474	0.380	0.2
Fipronil (120068-37-3)	-	0.0474	0.380	0.4	Trifloxystrobin (141517-21-7)	-	0.0474	0.380	0.2
Flonicamid (158062-67-0)	-	0.0474	0.380	1					
Fludioxinil (131341-86-1)	-	0.0474	0.380	0.4					
Hexythiazox (78587-05-0)	-	0.0474	0.380	1					
Imazalil (35554-44-0)	-	0.0474	0.380	0.2					
Imidacloprid (138261-41-3)	-	0.0474	0.380	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.

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

Analysis Date/Time: 07/20/2023 0717 (ICP/OES)	Method: ICP/MS	Deviations from SOP:
Analysis Date/Time: - (DMA)	Instrument: Agilent 7500ce	None
Analyst: KF		

<u>Heavy Metal</u>	<u>Result</u> (µg/kg)	<u>LOD</u> (µg/kg)	<u>LOQ</u> (µg/kg)	<u>Action Level</u> (µg/kg)
Arsenic (As)	-	57.9	91.7	200
Cadmium (Cd)	-	57.9	91.7	200
Lead (Pb)	-	57.9	91.7	500
Mercury (Hg)	-	57.9	91.7	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

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"DET" detected less than LOQ

"-" not detected above LOD

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

Disclaimer: This information is provided as a service and makes no claims of efficacy and/or safety of this product. Results are applicable only for the sample(s) analyzed and for the specific analysis conducted. This report is for informational purposes only and should not be used to diagnose, treat, or prevent any medical-related symptoms. The statements and results herein have not been approved and/or endorsed by the FDA.

REPORT OF LABORATORY ANALYSIS

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www.FASTLaboratories.com

Kyle W. Felling
Kyle W. Felling, Ph.D.
Laboratory Director



CERTIFICATE OF ANALYSIS (SAMPLE ID: SA35651)

Testing Location:	Customer ID: 2168	Sample ID: SA35651	Sample Type: Primary
Arkansas	River Valley Relief MIPS	Lot Number:	Matrix: Concentrate
232 S. Broadview St.	5601 Old Greenwood Rd Suite C	M00065C13240341065	Mass: 4grams
Greenbrier, AR 72058	Fort Smith, AR 72903	Production Run:	Date Collected: 07/17/2023
License: ADA 05_H273	License: 00065C	E20230717CDGLD02	Date Received: 07/17/2023
Cultivar (Strain) or Sample Description: Chem Dawg Indica Live Diamonds 1g Jar			Date Completed: 07/20/2023

MICROBIOLOGICAL PROFILE (SOP: SOP-Micro-001)

Analysis Date/Time: 07/19/2023 1237	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	-
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.
A value of "-" for the action level means that analyte is not currently regulated by the regulations referenced above.

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