

SUMMARY OF ANALYSIS (SAMPLE ID: SA40309)

Testing Location: Arkansas 232 S. Broadview St. Greenbrier, AR 72058 License: ADH 113	Customer ID: 2168 River Valley Relief MIPS 5601 Old Greenwood Rd Suite C Fort Smith, AR 72903 License: 00065C	Order ID: OR11456 Lot Number: M00065C13246435110 Production Run: E20250221GMARKS01	Sample Type: Primary Matrix: Concentrate Mass: 4ea Date Collected: 02/24/2025 Date Received: 02/25/2025
Cultivar (Strain) or Sample Description: Gush Mints Full Spectrum AR 1g Cart			Date Completed: 02/26/2025

*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 (%)

Not Tested

Water Activity (aw)

0.000 @ 0.000°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
Δ9-THC	64.6	646
THCA	15.3	153
CBN	0.590	5.90
TOTAL CBD	0.0854	0.854
TOTAL THC	78.0	780
TOTAL CANNABINOIDS	81.0	810

Terpenes (Top 5)	(%)	µg/g
β-Caryophyllene	4.65	46500
d-Limonene	4.53	45300
α-Humulene	0.973	9730
β-Myrcene	0.830	8300
β-Pinene	0.504	5040
TOTAL TERPENES	12.2	122000

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

www.FASTLaboratories.com



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Cultivar (Strain) or Sample Description: Gush Mints Full Spectrum AR 1g Cart **Date Completed:** 02/26/2025

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

Analysis Date/Time: 02/25/2025 1200
Analyst: PW

Method: HPLC/DAD
Instrument: Agilent 1100

Moisture Content (%): -
Water Activity (aw): 0.000 @ 0.000°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	0.110	0.256	-	0.000	0.000
CBCA	ND	ND	0.341	0.796	-	0.000	0.000
CBD	ND	ND	0.775	1.81	-	0.000	0.000
CBDA	0.0974	0.974	0.285	0.666	-	0.974	0.974
CBDV	ND	ND	0.124	0.290	-	0.000	0.000
CBDVA	ND	ND	0.331	0.774	-	0.000	0.000
CBG	ND	ND	0.503	1.17	-	0.000	0.000
CBGA	ND	ND	0.713	0.841	-	0.000	0.000
CBL	ND	ND	0.581	1.36	-	0.000	0.000
CBN	0.590	5.90	0.267	0.623	-	5.90	5.90
CBNA	ND	ND	0.288	0.672	-	0.000	0.000
Δ9-THC	64.6	646	0.320	0.746	-	646	646
Δ8-THC	ND	ND	0.499	1.17	-	0.000	0.000
THCA	15.3	153	0.173	0.406	-	153	153
THCV	0.251	2.51	0.416	0.970	-	2.51	2.51
THCVA	0.113	1.13	0.133	0.309	-	1.13	1.13
TOTAL	81.0	810				810	810
TOTAL CBC	0.000	0.000				0.000	0.000
TOTAL CBD	0.0854	0.854				0.854	0.854
TOTAL CBDV	0.000	0.000				0.000	0.000
TOTAL CBG	0.000	0.000				0.000	0.000
TOTAL CBN	0.590	5.90				5.90	5.90
TOTAL THC	78.0	780				780	780
TOTAL THC V	0.349	3.49				3.49	3.49



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 THC V = (THCVA x 0.867) + THC V

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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Kyle W. Felling, Ph.D.
Laboratory Director



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Cultivar (Strain) or Sample Description: Gush Mints Full Spectrum AR 1g Cart			Date Completed: 02/26/2025

TERPENOID PROFILE

Analysis Date/Time: 02/25/2025 1211
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	<LOQ	-	
Camphene	966	0.0966	
δ-3-Carene	<LOQ	-	
β-Caryophyllene	46500	4.65	█
Caryophyllene oxide	97.3	0.00973	
p-Cymene	165	0.0165	
Eucalyptol	ND	-	
Geraniol	ND	-	
Guaiol	48.5	0.00485	
α-Humulene	9730	0.973	█
Isopulegol	ND	-	
d-Limonene	45300	4.53	█
Linalool	ND	-	
β-Myrcene	8300	0.830	█
cis-Nerolidol	ND	-	
trans-Nerolidol	1620	0.162	
α-Ocimene	ND	-	
β-Ocimene	224	0.0224	
α-Pinene	3800	0.380	█
β-Pinene	5040	0.504	█
α-Terpinene	<LOQ	-	
γ-Terpinene	<LOQ	-	
Terpinolene	516	0.0516	
TOTAL	122000	12.2	



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): 48.2

"-" Not detected above LOD.

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Cultivar (Strain) or Sample Description: Gush Mints Full Spectrum AR 1g Cart **Date Completed:** 02/26/2025

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

Analysis Date/Time: 02/25/2025 12:12 **Method:** HS/GC/MS **Deviations from SOP:** None
Analyst: KF **Instrument:** Agilent 7890/5975

Solvent	Result (µg/g)	LOD (µg/g)	LOQ (µg/g)	Action Level (µg/g)	Solvent	Result (µg/g)	LOD (µg/g)	LOQ (µg/g)	Action Level (µg/g)
Acetone (67-64-1)	-	38.3	76.6	5000	n-Heptane (142-82-5)	-	38.3	76.6	5000
Acetonitrile (75-5-8)	-	38.3	76.6	410	n-Hexane (110-54-3)	-	13.4	26.8	290
Benzene (71-43-2)	-	0.383	0.766	2	Isobutane (75-28-5)	-	38.3	76.6	5000
n-Butane (106-97-2)	-	38.3	76.6	5000	Isopropanol (67-63-0)	-	38.3	76.6	5000
1-Butanol (71-36-3)	-	38.3	76.6	5000	Isopropyl acetate (108-21-4)	-	38.3	76.6	5000
2-Butanol (78-92-2)	-	38.3	76.6	5000	Isopropyl benzene (98-82-8)	-	3.83	7.66	70
2-Butanone (78-93-3)	-	38.3	76.6	5000	Methanol (67-56-1)	-	38.3	76.6	3000
Cyclohexane (110-82-7)	-	38.3	76.6	3880	2-Methylbutane (78-78-4)	-	38.3	76.6	5000
1,2-Dimethoxyethane (110-71-4)	-	3.83	7.66	100	Methylene chloride (75-9-2)	-	38.3	76.6	600
N,N-Dimethylacetamide (127-19-5)	-	38.3	76.6	1090	2-Methylpentane (107-83-5)	-	13.4	26.8	290
2,2-Dimethylbutane (75-83-2)	-	13.4	26.8	290	3-Methylpentane (96-10-0)	-	13.4	26.8	290
2,3-Dimethylbutane (79-29-8)	-	13.4	26.8	290	n-Pentane (109-66-0)	-	38.3	76.6	5000
N,N-Dimethylformamide (68-12-2)	-	38.3	76.6	880	1-Pentanol (71-41-0)	-	38.3	76.6	5000
Dimethylsulfoxide (67-68-5)	-	38.3	76.6	5000	n-Propane (74-98-6)	-	38.3	76.6	5000
1,4-Dioxane (123-91-1)	-	38.3	76.6	380	1-Propanol (71-23-8)	-	38.3	76.6	5000
Ethanol (64-17-5)	-	38.3	76.6	5000	Pyridine (110-86-1)	-	13.4	26.8	200
2-Ethoxyethanol (110-80-5)	-	13.4	26.8	160	Tetrahydrofuran (109-99-9)	-	38.3	76.6	720
Ethyl ether (60-29-7)	-	38.3	76.6	5000	Tetramethylene sulfone (126-33-0)	-	13.4	26.8	160
Ethyl acetate (141-78-6)	-	38.3	76.6	5000	Toluene (108-88-3)	-	38.3	76.6	890
Ethyl benzene (100-41-4)	-	38.3	76.6	2170	o-Xylene (95-47-6)	-	38.3	76.6	2170
Ethylene glycol (107-21-1)	-	38.3	76.6	620	m,p-Xylene (108-38-3 or 106-42-3)	-	38.3	76.6	2170
Ethylene oxide (75-21-8)	-	3.83	7.66	50	Xylenes* (1330-20-7)	-	43.3	86.7	2170



Color Key

RESULT < AL (Green background)
RESULT > AL (Red background)

"-" not detected above 1/2 Action Level

"*" - 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.

Solvent	Synonym(s)	Solvent	Synonym(s)
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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Cultivar (Strain) or Sample Description: Gush Mints Full Spectrum AR 1g Cart **Date Completed:** 02/26/2025

PESTICIDES PROFILE (SOP: SOP-PEST-001)

Analysis Date/Time: 02/25/2025 1231
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)	-	0.0480	0.384	0.5	Kresoxim-methyl (143390-89-0)	-	0.0480	0.384	0.4
Acephate (30560-19-1)	-	0.0480	0.384	0.4	Malathion (121-75-5)	-	0.0480	0.384	0.2
Acetamiprid (135410-20-7)	-	0.0480	0.384	0.2	Metalaxyl (57837-19-1)	-	0.0480	0.384	0.2
Aldicarb (116-06-3)	-	0.0480	0.384	0.4	Methiocarb (2032-65-7)	-	0.0480	0.384	0.2
Azoxystrobin (131860-33-8)	-	0.0480	0.384	0.2	Methomyl (16752-77-5)	-	0.0480	0.384	0.4
Bifenazate (149877-41-8)	-	0.0480	0.384	0.2	Methyl parathion (298-0-0)	-	0.0480	0.384	0.2
Bifenthrin (82657-04-3)	-	0.0480	0.384	0.2	MGK 264 (113-48-4)	-	0.0480	0.384	0.2
Boscalid (188425-85-6)	-	0.0480	0.384	0.4	Myclobutanil (88671-89-0)	-	0.0480	0.384	0.2
Carbaryl (63-25-2)	-	0.0480	0.384	0.2	Naled (300-76-5)	-	0.0480	0.384	0.5
Carbofuran (1563-66-2)	-	0.0480	0.384	0.2	Oxamyl (23135-22-0)	-	0.0480	0.384	1
Chlorantraniliprole (800008-45-7)	-	0.0480	0.384	0.2	Pacllobutrazol (76738-62-0)	-	0.0480	0.384	0.4
Chlorfenapyr (122453-73-0)	-	0.0480	0.384	1	Permethrins (52645-53-1)	-	0.0480	0.384	0.2
Chlorpyrifos (2921-88-2)	-	0.0480	0.384	0.2	Phosmet (732-11-6)	-	0.0480	0.384	0.2
Clofentezine (74115-24-5)	-	0.0480	0.384	0.2	Piperonyl butoxide (51-03-6)	-	0.0480	0.384	2
Cyfluthrin (68359-37-5)	-	0.0480	0.384	1	Prallethrins (2331-36-9)	-	0.0480	0.384	0.2
Cypermethrin (52315-07-8)	-	0.0480	0.384	1	Propiconazole (60207-90-1)	-	0.0480	0.384	0.4
Daminozide (1596-84-5)	-	0.0480	0.384	1	Propoxur (114-26-1)	-	0.0480	0.384	0.2
DDVP (62-73-7)	-	0.0480	0.384	0.1	Pyrethrins (8003-34-7)	-	0.0480	0.384	1
Diazinon (333-41-5)	-	0.0480	0.384	0.2	Pyridaben (96489-71-3)	-	0.0480	0.384	0.2
Dimethoate (60-51-5)	-	0.0480	0.384	0.2	Spinosad (168316-95-8)	-	0.0480	0.384	0.2
Ethoprophos (13194-48-4)	-	0.0480	0.384	0.2	Spiromesifen (283594-90-1)	-	0.0480	0.384	0.2
Etofenprox (80844-07-1)	-	0.0480	0.384	0.4	Spirotetramat (203313-25-1)	-	0.0480	0.384	0.2
Etoxazole (153233-91-1)	-	0.0480	0.384	0.2	Spiroxamine (118134-30-8)	-	0.0480	0.384	0.4
Fenoxycarb (72490-01-8)	-	0.0480	0.384	0.2	Tebuconazole (80443-41-0)	-	0.0480	0.384	0.4
(E)-Fenpyroximate (134098-61-6)	-	0.0480	0.384	0.4	Thiacloprid (111988-49-9)	-	0.0480	0.384	0.2
Fipronil (120068-37-3)	-	0.0480	0.384	0.4	Thiamethoxam (153719-23-4)	-	0.0480	0.384	0.2
Fonicamid (158062-67-0)	-	0.0480	0.384	1	Trifloxystrobin (141517-21-7)	-	0.0480	0.384	0.2
Fludioxinil (131341-86-1)	-	0.0480	0.384	0.4					
Hexythiazox (78587-05-0)	-	0.0480	0.384	1					
Imazalil (35554-44-0)	-	0.0480	0.384	0.2					
Imidacloprid (138261-41-3)	-	0.0480	0.384	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	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: 02/25/2025 1625	Method: ICP/MS Instrument: Agilent 7700x	Deviations from SOP: None
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Analyst: KF

<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)	ND	57.1	90.5	200
Cadmium (Cd)	ND	57.1	90.5	200
Lead (Pb)	ND	57.1	90.5	500
Mercury (Hg)	ND	57.1	90.5	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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REPORT OF LABORATORY ANALYSIS

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CERTIFICATE OF ANALYSIS (SAMPLE ID: SA40309)

Testing Location: Arkansas 232 S. Broadview St. Greenbrier, AR 72058 License: ADA 05_H273	Customer ID: 2168 River Valley Relief MIPS 5601 Old Greenwood Rd Suite C Fort Smith, AR 72903 License: 00065C	Sample ID: SA40309 Lot Number: M00065C13246435110 Production Run: E20250221GMARKS01	Sample Type: Primary Matrix: Concentrate Mass: 4ea Date Collected: 02/24/2025 Date Received: 02/25/2025
Cultivar (Strain) or Sample Description: Gush Mints Full Spectrum AR 1g Cart			Date Completed: 02/26/2025

MICROBIOLOGICAL PROFILE (SOP: SOP-Micro-001)

Analysis Date/Time: 02/26/2025 0712 **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.
A value of "-" for the action level means that analyte is not currently regulated by the regulations referenced above.

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

