

SUMMARY OF ANALYSIS (SAMPLE ID: SA35450)

Testing Location:	Customer ID: 2168	Order ID: OR10497	Sample Type: Primary
Arkansas	River Valley Relief MIPS	Lot Number:	Matrix: Concentrate
232 S. Broadview St.	5601 Old Greenwood Rd Suite C	M00065C13244084195	Mass: 4g
Greenbrier, AR 72058	Fort Smith, AR 72903	Production Run:	Date Collected: 06/19/2023
License: ADH 113	License: 00065C	E20230612KMTHR02	Date Received: 06/20/2023
Cultivar (Strain) or Sample Description: Kush Mints Hybrid HTFSE Resin .5g Cart			Date Completed: 06/21/2023

*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	40.2	402
Δ9-THC	25.1	251
CBGA	3.20	32.0
TOTAL CBD	0.348	3.48
TOTAL THC	60.3	603
TOTAL CANNABINOIDS	71.2	712

Terpenes (Top 5)	(%)	µg/g
d-Limonene	3.23	32300
β-Myrcene	1.50	15000
α-Pinene	0.266	2660
Terpinolene	0.209	2090
Camphene	0.188	1880
TOTAL TERPENES	5.93	59300

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



CERTIFICATE OF ANALYSIS (SAMPLE ID: SA35450)

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Cultivar (Strain) or Sample Description: Kush Mints Hybrid HTFSE Resin .5g Cart **Date Completed:** 06/21/2023

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

Analysis Date/Time: 06/20/2023 1425

Method: HPLC/DAD

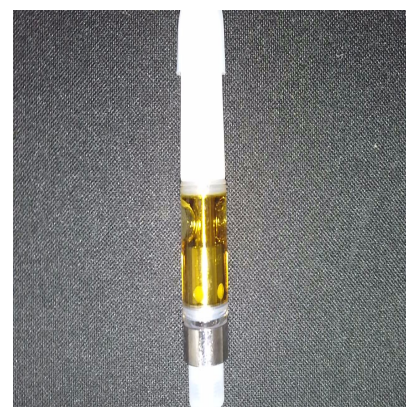
Moisture Content (%): -

Analyst: PW

Instrument: Agilent 1100

Water Activity (aw): -

<u>Cannabinoid</u>	<u>Result</u> <u>(%)</u>	<u>Result</u> <u>(mg/g)</u>	<u>LOD</u> <u>(mg/g)</u>	<u>LOQ</u> <u>(mg/g)</u>	<u>Result</u> <u>(mg/ mL)</u>	<u>Per</u> <u>Serving</u> <u>(mg)</u>	<u>Per</u> <u>Unit</u> <u>(mg)</u>
CBC	ND	ND	0.104	0.242	-	-	-
CBCA	1.23	12.3	0.323	0.753	-	12.3	12.3
CBD	ND	ND	0.733	1.71	-	-	-
CBDV	0.396	3.96	0.270	0.630	-	3.96	3.96
CBDVA	ND	ND	0.313	0.732	-	-	-
CBG	0.885	8.85	0.476	1.11	-	8.85	8.85
CBGA	3.20	32.0	0.674	0.796	-	32.0	32.0
CBL	ND	ND	0.550	1.28	-	-	-
CBN	ND	ND	0.252	0.590	-	-	-
CBNA	ND	ND	0.272	0.635	-	-	-
Δ9-THC	25.1	251	0.303	0.705	-	251	251
Δ8-THC	ND	ND	0.472	1.10	-	-	-
THCA	40.2	402	0.164	0.384	-	402	402
THCV	ND	ND	0.394	0.918	-	-	-
THCVA	0.302	3.02	0.126	0.293	-	3.02	3.02
TOTAL	71.2	712			-	712	712
TOTAL CBC	1.08	10.8			-	10.8	10.8
TOTAL CBD	0.348	3.48			-	3.48	3.48
TOTAL CBDV	-	-			-	-	-
TOTAL CBG	3.69	36.9			-	36.9	36.9
TOTAL CBN	-	-			-	-	-
TOTAL THC	60.3	603			-	603	603
TOTAL THCV	0.262	2.62			-	2.62	2.62



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

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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Percentage results are reported by mass.

mg/g results are reported as mass component per mass material.

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Kyle W. Felling
Laboratory Director

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TERPENOID PROFILE

Analysis Date/Time: 06/21/2023 0117

Method: GC/MS

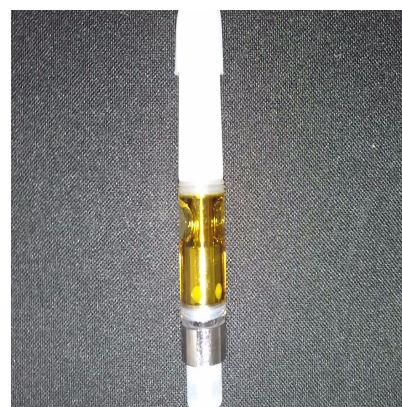
Deviations from SOP:

Analyst: KF

Instrument: Agilent 7890/5975

None

Terpene	Result (µg/g)	Result (%)	
α-Bisabolol	27.2	0.00272	
Camphene	1880	0.188	
δ-3-Carene	151	0.0151	
β-Caryophyllene	1500	0.150	
Caryophyllene oxide	-	-	
p-Cymene	-	-	
Eucalyptol	15.2	0.00152	
Geraniol	-	-	
Guaiol	45.2	0.00452	
α-Humulene	293	0.0293	
Isopulegol	-	-	
d-Limonene	32300	3.23	
Linalool	780	0.0780	
β-Myrcene	15000	1.50	
cis-Nerolidol	-	-	
trans-Nerolidol	12.2	0.00122	
α-Ocimene	1290	0.129	
β-Ocimene	642	0.0642	
α-Pinene	2660	0.266	
β-Pinene	78.1	0.00781	
α-Terpinene	398	0.0398	
γ-Terpinene	182	0.0182	
Terpinolene	2090	0.209	
TOTAL	59300	5.93	



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

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"-" Not detected above RL.

Reporting Limit (µg/g): 230

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Cultivar (Strain) or Sample Description: Kush Mints Hybrid HTFSE Resin .5g Cart			Date Completed: 06/21/2023

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

Analysis Date/Time: 06/20/2023 1502	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)	-	102	204	5000	n-Heptane (142-82-5)	-	102	204	5000
Acetonitrile (75-5-8)	-	102	204	410	n-Hexane (110-54-3)	-	35.6	71.2	290
Benzene (71-43-2)	-	1.02	2.04	2	Isobutane (75-28-5)	-	102	204	5000
n-Butane (106-97-2)	1480	102	204	5000	Isopropanol (67-63-0)	-	102	204	5000
1-Butanol (71-36-3)	-	102	204	5000	Isopropyl acetate (108-21-4)	-	102	204	5000
2-Butanol (78-92-2)	-	102	204	5000	Isopropyl benzene (98-82-8)	-	10.2	20.4	70
2-Butanone (78-93-3)	-	102	204	5000	Methanol (67-56-1)	-	102	204	3000
Cyclohexane (110-82-7)	-	102	204	3880	2-Methylbutane (78-78-4)	-	102	204	5000
1,2-Dimethoxyethane (110-71-4)	-	10.2	20.4	100	Methylene chloride (75-9-2)	-	102	204	600
N,N-Dimethylacetamide (127-19-5)	-	102	204	1090	2-Methylpentane (107-83-5)	-	35.6	71.2	290
2,2-Dimethylbutane (75-83-2)	-	35.6	71.2	290	3-Methylpentane (96-10-0)	-	35.6	71.2	290
2,3-Dimethylbutane (79-29-8)	-	35.6	71.2	290	n-Pentane (109-66-0)	-	102	204	5000
N,N-Dimethylformamide (68-12-2)	-	102	204	880	1-Pentanol (71-41-0)	-	102	204	5000
Dimethylsulfoxide (67-68-5)	-	102	204	5000	n-Propane (74-98-6)	-	102	204	5000
1,4-Dioxane (123-91-1)	-	102	204	380	1-Propanol (71-23-8)	-	102	204	5000
Ethanol (64-17-5)	502	102	204	5000	Pyridine (110-86-1)	-	35.6	71.2	200
2-Ethoxyethanol (110-80-5)	-	35.6	71.2	160	Tetrahydrofuran (109-99-9)	-	102	204	720
Ethyl ether (60-29-7)	-	102	204	5000	Tetramethylene sulfone (126-33-0)	-	35.6	71.2	160
Ethyl acetate (141-78-6)	-	102	204	5000	Toluene (108-88-3)	-	102	204	890
Ethyl benzene (100-41-4)	-	102	204	2170	o-Xylene (95-47-6)	-	102	204	2170
Ethylene glycol (107-21-1)	-	102	204	620	m,p-Xylene (108-38-3 or 106-42-3)	-	102	204	2170
Ethylene oxide (75-21-8)	-	10.2	20.4	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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Cultivar (Strain) or Sample Description: Kush Mints Hybrid HTFSE Resin .5g Cart **Date Completed:** 06/21/2023

PESTICIDES PROFILE (SOP: SOP-PEST-001)

Analysis Date/Time: 06/20/2023 1432

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)	-	0.0454	0.363	0.5	Kresoxim-methyl (143390-89-0)	-	0.0454	0.363	0.4
Acephate (30560-19-1)	-	0.0454	0.363	0.4	Malathion (121-75-5)	-	0.0454	0.363	0.2
Acetaminophen (57960-19-7)	-	0.0454	0.363	2	Metalaxyl (57837-19-1)	-	0.0454	0.363	0.2
Acetamiprid (135410-20-7)	-	0.0454	0.363	0.2	Methiocarb (2032-65-7)	-	0.0454	0.363	0.2
Aldicarb (116-06-3)	-	0.0454	0.363	0.4	Methomyl (16752-77-5)	-	0.0454	0.363	0.4
Azoxystrobin (131860-33-8)	-	0.0454	0.363	0.2	Methyl parathion (298-0-0)	-	0.0454	0.363	0.2
Bifenazate (149877-41-8)	-	0.0454	0.363	0.2	MGK 264 (113-48-4)	-	0.0454	0.363	0.2
Bifenthrin (82657-04-3)	-	0.0454	0.363	0.2	Myclobutanil (88671-89-0)	-	0.0454	0.363	0.2
Boscalid (188425-85-6)	-	0.0454	0.363	0.4	Naled (300-76-5)	-	0.0454	0.363	0.5
Carbaryl (63-25-2)	-	0.0454	0.363	0.2	Oxamyl (23135-22-0)	-	0.0454	0.363	1
Carbofuran (1563-66-2)	-	0.0454	0.363	0.2	Paclobutrazol (76738-62-0)	-	0.0454	0.363	0.4
Chlorantraniliprole (800008-45-7)	-	0.0454	0.363	0.2	Permethrins (52645-53-1)	-	0.0454	0.363	0.2
Chlorfenapyr (122453-73-0)	-	0.0454	0.363	1	Phosmet (732-11-6)	-	0.0454	0.363	0.2
Chlorpyrifos (2921-88-2)	-	0.0454	0.363	0.2	Piperonyl butoxide (51-03-6)	-	0.0454	0.363	2
Clofentezine (74115-24-5)	-	0.0454	0.363	0.2	Prallethrin (2331-36-9)	-	0.0454	0.363	0.2
Cyfluthrin (68359-37-5)	-	0.0454	0.363	1	Propiconazole (60207-90-1)	-	0.0454	0.363	0.4
Cypermethrin (52315-07-8)	-	0.0454	0.363	1	Propoxur (114-26-1)	-	0.0454	0.363	0.2
Daminozide (1596-84-5)	-	0.0454	0.363	1	Pyrethrins (8003-34-7)	-	0.0454	0.363	1
DDVP (62-73-7)	-	0.0454	0.363	0.1	Pyridaben (96489-71-3)	-	0.0454	0.363	0.2
Diazinon (333-41-5)	-	0.0454	0.363	0.2	Spinosad (168316-95-8)	-	0.0454	0.363	0.2
Dimethoate (60-51-5)	-	0.0454	0.363	0.2	Spiromesifen (283594-90-1)	-	0.0454	0.363	0.2
Ethoprophos (13194-48-4)	-	0.0454	0.363	0.2	Spirotetramat (203313-25-1)	-	0.0454	0.363	0.2
Etofenprox (80844-07-1)	-	0.0454	0.363	0.4	Spiroxamine (118134-30-8)	-	0.0454	0.363	0.4
Etoxazole (153233-91-1)	-	0.0454	0.363	0.2	Tebuconazole (80443-41-0)	-	0.0454	0.363	0.4
Fenoxycarb (72490-01-8)	-	0.0454	0.363	0.2	Thiacloprid (111988-49-9)	-	0.0454	0.363	0.2
(E)-Fenpyroximate (134098-61-6)	-	0.0454	0.363	0.4	Thiamethoxam (153719-23-4)	-	0.0454	0.363	0.2
Fipronil (120068-37-3)	-	0.0454	0.363	0.4	Trifloxystrobin (141517-21-7)	-	0.0454	0.363	0.2
Flonicamid (158062-67-0)	-	0.0454	0.363	1					
Fludioxinil (131341-86-1)	-	0.0454	0.363	0.4					
Hexythiazox (78587-05-0)	-	0.0454	0.363	1					
Imazalil (35554-44-0)	-	0.0454	0.363	0.2					
Imidacloprid (138261-41-3)	-	0.0454	0.363	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.

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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: 06/20/2023 1658 (ICP/OES)	Method: ICP/MS	Deviations from SOP:
Analysis Date/Time: - (DMA)	Instrument: Agilent 7500ce	None
Analyst: KF		

Heavy Metal	Result (µg/kg)	LOD (µg/kg)	LOQ (µg/kg)	Action Level (µg/kg)
Arsenic (As)	-	57.2	90.6	200
Cadmium (Cd)	-	57.2	90.6	200
Lead (Pb)	-	57.2	90.6	500
Mercury (Hg)	-	57.2	90.6	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.

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: SA35450)

Testing Location:	Customer ID: 2168	Sample ID: SA35450	Sample Type: Primary
Arkansas	River Valley Relief MIPS	Lot Number:	Matrix: Concentrate
232 S. Broadview St.	5601 Old Greenwood Rd Suite C	M00065C13244084195	Mass: 4g
Greenbrier, AR 72058	Fort Smith, AR 72903	Production Run:	Date Collected: 06/19/2023
License: ADA 05_H273	License: 00065C	E20230612KMTHR02	Date Received: 06/20/2023
Cultivar (Strain) or Sample Description: Kush Mints Hybrid HTFSE Resin .5g Cart			Date Completed: 06/21/2023

MICROBIOLOGICAL PROFILE (SOP: SOP-Micro-001)

Analysis Date/Time: 06/21/2023 0953 **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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