

SUMMARY OF ANALYSIS (SAMPLE ID: SA34075)

Testing Location: Arkansas 232 S. Broadview St. Greenbrier, AR 72058 License: ADA 05_H273	Customer ID: 37 Can-Tek Labs 8107 S I-35 Service Rd Oklahoma City, OK 73149 License: Not Entered or N/A	Order ID: OR10252 Lot Number: 0816-30 Batch Number: CTK-010423-01-FRF	Sample Type: Primary Matrix: Oil/Tincture Mass: 30g Date Collected: 01/04/2023 Date Received: 01/09/2023
Cultivar (Strain) or Sample Description: First Responders Fuel Mayday Tincture 1650mg 30ml			Date Completed: 01/26/2023

*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 Oklahoma-Oral/Rectal/Vaginal 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 Oklahoma-Oral/Rectal/Vaginal 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
CBD	5.05	50.5
CBG	0.637	6.37
CBC	0.0913	0.913
TOTAL CBD	5.05	50.5
TOTAL THC	-	-
TOTAL CANNABINOIDS	5.85	58.5

Terpenes (Top 5)	(%)	µg/g
α-Bisabolol	0.000	0.000
Camphene	0.000	0.000
δ-3-Carene	0.000	0.000
β-Caryophyllene	0.000	0.000
Caryophyllene oxide	0.000	0.000
TOTAL TERPENES	-	-

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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REPORT OF LABORATORY ANALYSIS

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



CERTIFICATE OF ANALYSIS (SAMPLE ID: SA34075)

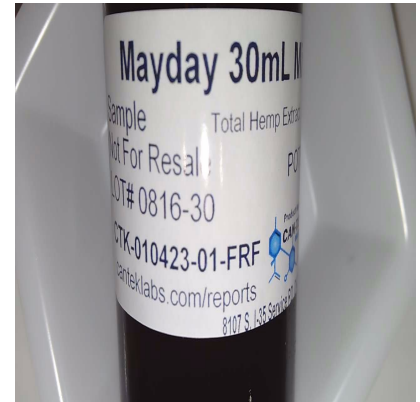
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Cultivar (Strain) or Sample Description: First Responders Fuel Mayday Tincture 1650mg 30ml **Date Completed:** 01/26/2023

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

Analysis Date/Time: 01/11/2023 1111 **Method:** HPLC/DAD **Moisture Content (%):** -
Analyst: PW **Instrument:** Agilent 1100 **Water Activity (aw):** -

<u>Cannabinoid</u>	<u>Result (%)</u>	<u>UM (+/-%)</u>	<u>Result (mg/g)</u>	<u>LOQ (mg/g)</u>	<u>Result (mg/mL)</u>	<u>Per Serving (mg)</u>	<u>Per Unit (mg)</u>
CBC	0.0913	0.00821	0.913	0.225	-	0.913	27.4
CBCA	-	-	-	0.698	-	-	-
CBD	5.05	0.455	50.5	1.59	-	50.5	1520
CBDa	DET	-	DET	0.584	-	-	-
CBDV	-	-	-	0.254	-	-	-
CBDVA	-	-	-	0.679	-	-	-
CBG	0.637	0.0574	6.37	1.03	-	6.37	191
CBGA	DET	-	DET	0.738	-	-	-
CBL	-	-	-	1.19	-	-	-
CBN	0.0725	0.00653	0.725	0.547	-	0.725	21.8
CBNA	-	-	-	0.589	-	-	-
Δ9-THC	-	-	-	0.654	-	-	-
Δ8-THC	-	-	-	1.02	-	-	-
THCA	-	-	-	0.356	-	-	-
THCV	-	-	-	0.851	-	-	-
THCVA	-	-	-	0.271	-	-	-
TOTAL	5.85	0.527	58.5			58.5	1760
TOTAL CBC	0.0913	0.00821	0.913			0.913	27.4
TOTAL CBD	5.05	0.455	50.5			50.5	1520
TOTAL CBDV	-	-	-			-	-
TOTAL CBG	0.637	0.0574	6.37			6.37	191
TOTAL CBN	0.0725	0.00653	0.725			0.725	21.8
TOTAL THC	-	-	-			-	-
TOTAL THCv	-	-	-			-	-



SERVING MASS (g): 1.00
SERVINGS/UNIT: 30

"-" 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) + 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.

* 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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Cultivar (Strain) or Sample Description: First Responders Fuel Mayday Tincture 1650mg 30ml **Date Completed:** 01/26/2023

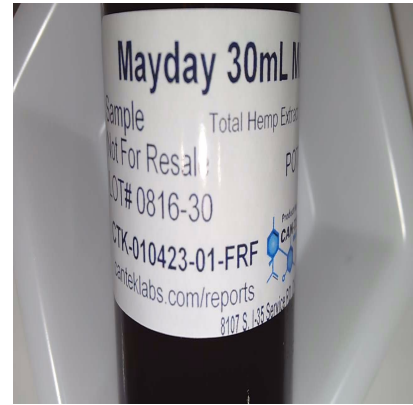
TERPENOID PROFILE

Analysis Date/Time: 01/25/2023 0906
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	-	-
Camphene	-	-
δ-3-Carene	-	-
β-Caryophyllene	-	-
Caryophyllene oxide	-	-
p-Cymene	-	-
Eucalyptol	-	-
Geraniol	-	-
Guaiol	-	-
α-Humulene	-	-
Isopulegol	-	-
d-Limonene	-	-
Linalool	-	-
β-Myrcene	-	-
cis-Nerolidol	-	-
trans-Nerolidol	-	-
α-Ocimene	-	-
β-Ocimene	-	-
α-Pinene	-	-
β-Pinene	-	-
α-Terpinene	-	-
γ-Terpinene	-	-
Terpinolene	-	-
TOTAL	0.000	0.000



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

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"-" Not detected above RL.

Reporting Limit (µg/g): 39.5

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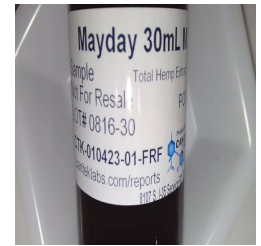
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Cultivar (Strain) or Sample Description: First Responders Fuel Mayday Tincture 1650mg 30ml **Date Completed:** 01/26/2023

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

Analysis Date/Time: 1/25/2023 1707 **Method:** HS/GC/MS **Deviations from SOP:**
Analyst: KF **Instrument:** Agilent 7890/5975 **None**

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)	-	36.2	72.4	1000	n-Heptane (142-82-5)	-	36.2	72.4	1000
Acetonitrile (75-5-8)	-	36.2	72.4	-	n-Hexane (110-54-3)	-	12.7	25.3	60
Benzene (71-43-2)	-	0.362	0.724	2	Isobutane (75-28-5)	-	36.2	72.4	1000
n-Butane (106-97-2)	-	36.2	72.4	1000	Isopropanol (67-63-0)	-	36.2	72.4	1000
1-Butanol (71-36-3)	-	36.2	72.4	-	Isopropyl acetate (108-21-4)	-	36.2	72.4	-
2-Butanol (78-92-2)	-	36.2	72.4	-	Isopropyl benzene (98-82-8)	-	3.62	7.24	-
2-Butanone (78-93-3)	-	36.2	72.4	-	Methanol (67-56-1)	-	36.2	72.4	600
Cyclohexane (110-82-7)	-	36.2	72.4	-	2-Methylbutane (78-78-4)	-	36.2	72.4	-
1,2-Dimethoxyethane (110-71-4)	-	3.62	7.24	-	Methylene chloride (75-9-2)	-	36.2	72.4	-
N,N-Dimethylacetamide (127-19-5)	-	36.2	72.4	-	2-Methylpentane (107-83-5)	-	12.7	25.3	-
2,2-Dimethylbutane (75-83-2)	-	12.7	25.3	-	3-Methylpentane (96-10-0)	-	12.7	25.3	-
2,3-Dimethylbutane (79-29-8)	-	12.7	25.3	-	n-Pentane (109-66-0)	-	36.2	72.4	1000
N,N-Dimethylformamide (68-12-2)	-	36.2	72.4	-	1-Pentanol (71-41-0)	-	36.2	72.4	-
Dimethylsulfoxide (67-68-5)	-	36.2	72.4	-	n-Propane (74-98-6)	-	36.2	72.4	1000
1,4-Dioxane (123-91-1)	-	36.2	72.4	-	1-Propanol (71-23-8)	-	36.2	72.4	-
Ethanol (64-17-5)	-	36.2	72.4	-	Pyridine (110-86-1)	-	12.7	25.3	-
2-Ethoxyethanol (110-80-5)	-	12.7	25.3	-	Tetrahydrofuran (109-99-9)	-	36.2	72.4	-
Ethyl ether (60-29-7)	-	36.2	72.4	-	Tetramethylene sulfone (126-33-0)	-	12.7	25.3	-
Ethyl acetate (141-78-6)	-	36.2	72.4	1000	Toluene (108-88-3)	-	36.2	72.4	180
Ethyl benzene (100-41-4)	-	36.2	72.4	-	o-Xylene (95-47-6)	-	36.2	72.4	430
Ethylene glycol (107-21-1)	-	36.2	72.4	-	m,p-Xylene (108-38-3 or 106-42-3)	-	36.2	72.4	430
Ethylene oxide (75-21-8)	-	3.62	7.24	-	Xylenes* (1330-20-7)	-	43.3	86.7	430



Color Key

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

"DET" detected less than LOQ

"-" not detected above LOD

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

Action levels are referenced from the State of Oklahoma-Oral/Rectal/Vaginal 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: First Responders Fuel Mayday Tincture 1650mg 30ml **Date Completed:** 01/26/2023

PESTICIDES PROFILE (SOP: SOP-PEST-001)

Analysis Date/Time: 01/25/2023 0830
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)	-	0.0395	0.316	0.5	Kresoxim-methyl (143390-89-0)	-	0.0395	0.316	-
Acephate (30560-19-1)	-	0.0395	0.316	-	Malathion (121-75-5)	-	0.0395	0.316	0.2
Acetaminocyl (57960-19-7)	-	0.0395	0.316	-	Metalaxyl (57837-19-1)	-	0.0395	0.316	-
Acetamidrid (135410-20-7)	-	0.0395	0.316	-	Methiocarb (2032-65-7)	-	0.0395	0.316	-
Aldicarb (116-06-3)	-	0.0395	0.316	-	Methomyl (16752-77-5)	-	0.0395	0.316	-
Azoxystrobin (131860-33-8)	-	0.0395	0.316	0.2	Methyl parathion (298-0-0)	-	0.0395	0.316	-
Bifenazate (149877-41-8)	-	0.0395	0.316	0.2	MGK 264 (113-48-4)	-	0.0395	0.316	-
Bifenthrin (82657-04-3)	-	0.0395	0.316	-	Myclobutanil (88671-89-0)	-	0.0395	0.316	0.2
Boscalid (188425-85-6)	-	0.0395	0.316	-	Naled (300-76-5)	-	0.0395	0.316	-
Carbaryl (63-25-2)	-	0.0395	0.316	-	Oxamyl (23135-22-0)	-	0.0395	0.316	-
Carbofuran (1563-66-2)	-	0.0395	0.316	-	Paclitaxel (76738-62-0)	-	0.0395	0.316	-
Chlorantraniliprole (800008-45-7)	-	0.0395	0.316	-	Permethrins (52645-53-1)	-	0.0395	0.316	0.2
Chlorfenapyr (122453-73-0)	-	0.0395	0.316	-	Phosmet (732-11-6)	-	0.0395	0.316	-
Chlorpyrifos (2921-88-2)	-	0.0395	0.316	-	Piperonyl butoxide (51-03-6)	-	0.0395	0.316	-
Clofentezine (74115-24-5)	-	0.0395	0.316	-	Prallethrins (2331-36-9)	-	0.0395	0.316	-
Cyfluthrin (68359-37-5)	-	0.0395	0.316	-	Propiconazole (60207-90-1)	-	0.0395	0.316	-
Cypermethrin (52315-07-8)	-	0.0395	0.316	-	Propoxur (114-26-1)	-	0.0395	0.316	-
Daminozide (1596-84-5)	-	0.0395	0.316	-	Pyrethrins (8003-34-7)	-	0.0395	0.316	-
DDVP (62-73-7)	-	0.0395	0.316	-	Pyridaben (96489-71-3)	-	0.0395	0.316	-
Diazinon (333-41-5)	-	0.0395	0.316	-	Spinosad (168316-95-8)	-	0.0395	0.316	0.2
Dimethoate (60-51-5)	-	0.0395	0.316	-	Spiromesifen (283594-90-1)	-	0.0395	0.316	0.2
Ethoprophos (13194-48-4)	-	0.0395	0.316	-	Spirotetramat (203313-25-1)	-	0.0395	0.316	0.2
Etofenprox (80844-07-1)	-	0.0395	0.316	-	Spiroxamine (118134-30-8)	-	0.0395	0.316	-
Etoxazole (153233-91-1)	-	0.0395	0.316	0.2	Tebuconazole (80443-41-0)	-	0.0395	0.316	0.4
Fenoxycarb (72490-01-8)	-	0.0395	0.316	-	Thiacloprid (111988-49-9)	-	0.0395	0.316	-
(E)-Fenpyroximate (134098-61-6)	-	0.0395	0.316	-	Thiamethoxam (153719-23-4)	-	0.0395	0.316	-
Fipronil (120068-37-3)	-	0.0395	0.316	-	Trifloxystrobin (141517-21-7)	-	0.0395	0.316	-
Fonicamid (158062-67-0)	-	0.0395	0.316	-					
Fludioxinil (131341-86-1)	-	0.0395	0.316	-					
Hexythiazox (78587-05-0)	-	0.0395	0.316	-					
Imazalil (35554-44-0)	-	0.0395	0.316	0.2					
Imidacloprid (138261-41-3)	-	0.0395	0.316	0.4					



Color Key

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

"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 Oklahoma-Oral/Rectal/Vaginal 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-200.7)

Analysis Date/Time: 01/25/2023 0805 (ICP/OES)	Method: ICP/OES	Deviations from SOP:
Analysis Date/Time: - (DMA)	Instrument: Agilent 720-ES	None
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)	-	59.3	93.8	1500
Cadmium (Cd)	-	59.3	93.8	500
Lead (Pb)	-	59.3	93.8	1000
Mercury (Hg)	-	59.3	93.8	1500



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 Oklahoma-Oral/Rectal/Vaginal 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: SA34075)

Testing Location: Arkansas 232 S. Broadview St. Greenbrier, AR 72058 License: ADA 05_H273	Customer ID: 37 Can-Tek Labs 8107 S I-35 Service Rd Oklahoma City, OK 73149 License: Not Entered or N/A	Sample ID: SA34075 Lot Number: 0816-30 Batch Number: CTK-010423-01-FRF	Sample Type: Primary Matrix: Oil/Tincture Mass: 30g Date Collected: 01/04/2023 Date Received: 01/09/2023
Cultivar (Strain) or Sample Description: First Responders Fuel Mayday Tincture 1650mg 30ml			Date Completed: 01/26/2023

MICROBIOLOGICAL PROFILE (SOP: SOP-Micro-001)

Analysis Date/Time: 20230126 0910 **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	-
Escherichia Coli (E. Coli)	Absent	1
Mold/Yeast	Absent	10
Pseudomonas aeruginosa	NT	1
Salmonella spp.	Absent	1
Staphylococcus aureus	Absent	-



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



Reporting Limit (CFU/g)
1

Action levels for microbiology are referenced from the State of Oklahoma-Oral/Rectal/Vaginal 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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