

## Mule Fuel.B22B24A.49.2024.

Sample ID: 2412APO5378.24741  
Strain: Mule Fuel  
Matrix: Plant  
Type: Flower - Cured  
Source Batch #:

Produced:  
Collected: 12/10/2024 03:45 pm  
Received: 12/10/2024  
Completed: 12/16/2024  
Batch #: Mule Fuel.B22B24A.49.2024.  
Harvest Date: 12/02/2024

Client  
**The Pharm / Sunday Goods**  
Lic. # 00000099ESVM28064808

Lot #:  
Production/Manufacture Date:  
Production/Manufacture Method:



### Summary

Test	Date Tested	Result
Batch		Pass
Cannabinoids	12/12/2024	Complete
Terpenes	12/12/2024	Complete
Microbials	12/16/2024	Pass
Pesticides	12/11/2024	Pass
Heavy Metals	12/11/2024	Pass

### Cannabinoids by SOP-6

Complete



Analyte	LOD	LOQ	Result	Result	Q
	%	%	%	mg/g	
THCa		0.1000	30.4546	304.546	
Δ9-THC		0.1000	0.2063	2.063	
Δ8-THC		0.1000	ND	ND	
THCV		0.1000	ND	ND	
CBDa		0.1000	<LOQ	<LOQ	
CBD		0.1000	ND	ND	
CBDVa		0.1000	ND	ND	
CBDV		0.1000	ND	ND	
CBN		0.1000	ND	ND	
CBGa		0.1000	0.4156	4.156	
CBG		0.1000	<LOQ	<LOQ	
CBC		0.1000	ND	ND	
<b>Total THC</b>			<b>26.9150</b>	<b>269.1500</b>	
<b>Total CBD</b>			<b>ND</b>	<b>ND</b>	
<b>Total</b>			<b>31.0765</b>	<b>310.765</b>	

Date Tested: 12/12/2024 07:00 am



*Anthony Settanni*

Anthony Settanni  
Lab Director  
12/16/2024

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### Pesticides by SOP-22

Pass

Analyte	LOQ	Limit	Result	Q	Status	Analyte	LOQ	Limit	Result	Q	Status
	PPM	PPM	PPM				PPM	PPM	PPM		
Abamectin	0.2500	0.5000	ND		Pass	Hexythiazox	0.5000	1.0000	ND		Pass
Acephate	0.2000	0.4000	ND		Pass	Imazalil	0.1000	0.2000	ND		Pass
Acetamiprid	0.1000	0.2000	ND		Pass	Imidacloprid	0.2000	0.4000	ND		Pass
Aldicarb	0.2000	0.4000	ND		Pass	Kresoxim Methyl	0.2000	0.4000	ND		Pass
Azoxystrobin	0.1000	0.2000	ND		Pass	Malathion	0.1000	0.2000	ND		Pass
Bifenazate	0.1000	0.2000	ND		Pass	Metalaxyl	0.1000	0.2000	ND		Pass
Bifenthrin	0.1000	0.2000	ND		Pass	Methiocarb	0.1000	0.2000	ND		Pass
Boscalid	0.2000	0.4000	ND		Pass	Methomyl	0.2000	0.4000	ND		Pass
Carbaryl	0.1000	0.2000	ND		Pass	Myclobutanil	0.1000	0.2000	ND		Pass
Carbofuran	0.1000	0.2000	ND		Pass	Naled	0.2500	0.5000	ND		Pass
Chlorantraniliprole	0.1000	0.2000	ND		Pass	Oxamyl	0.5000	1.0000	ND		Pass
Chlorfenapyr	0.5000	1.0000	ND		Pass	Paclbutrazol	0.2000	0.4000	ND		Pass
Chlorpyrifos	0.1000	0.2000	ND		Pass	Permethrins	0.1000	0.2000	ND		Pass
Clofentezine	0.1000	0.2000	ND		Pass	Phosmet	0.1000	0.2000	ND		Pass
Cyfluthrin	0.5000	1.0000	ND		Pass	Piperonyl	1.0000	2.0000	ND		Pass
Cypermethrin	0.5000	1.0000	ND		Pass	Butoxide					
Daminozide	0.5000	1.0000	ND		Pass	Prallethrin	0.1000	0.2000	ND		Pass
Diazinon	0.1000	0.2000	ND		Pass	Propiconazole	0.2000	0.4000	ND		Pass
Dichlorvos	0.0500	0.1000	ND		Pass	Propoxur	0.1000	0.2000	ND		Pass
Dimethoate	0.1000	0.2000	ND		Pass	Pyrethrins	0.5000	1.0000	ND		Pass
Ethoprophos	0.1000	0.2000	ND		Pass	Pyridaben	0.1000	0.2000	ND		Pass
Etofenprox	0.2000	0.4000	ND		Pass	Spinosad	0.1000	0.2000	ND		Pass
Etoxazole	0.1000	0.2000	ND		Pass	Spiromesifen	0.1000	0.2000	ND		Pass
Fenoxycarb	0.1000	0.2000	ND		Pass	Spirotetramat	0.1000	0.2000	ND		Pass
Fenpyroximate	0.2000	0.4000	ND		Pass	Spiroxamine	0.2000	0.4000	ND		Pass
Fipronil	0.2000	0.4000	ND		Pass	Tebuconazole	0.2000	0.4000	ND		Pass
Flonicamid	0.5000	1.0000	ND		Pass	Thiacloprid	0.1000	0.2000	ND		Pass
Fludioxonil	0.2000	0.4000	ND		Pass	Thiamethoxam	0.1000	0.2000	ND		Pass
						Trifloxystrobin	0.1000	0.2000	ND		Pass

Date Tested: 12/11/2024 07:00 am



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Lab Director  
12/16/2024

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### Microbials

Pass

Analyte	Limit	Result	Status	Q
Salmonella SPP by QPCR: SOP-15	Detected/Not Detected in 1g	ND	Pass	
Aspergillus Flavus Aspergillus Fumigatus or Aspergillus Niger by QPCR: SOP-14	Detected/Not Detected in 1g	ND	Pass	
Aspergillus Terreus by QPCR: SOP-14	Detected/Not Detected in 1g	ND	Pass	

Analyte	LOQ	Limit	Result	Status	Q
E. Coli by traditional plating: SOP-13	CFU/g 10.0	CFU/g 100.0	CFU/g < 10 CFU/g	Pass	

Date Tested: 12/16/2024 12:00 am

### Mycotoxins by SOP-22

Not Tested

Analyte	LOD	LOQ	Limit	Units	Status	Q
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Date Tested:

### Heavy Metals by SOP-21

Pass

Analyte	LOD	LOQ	Limit	Units	Status	Q
	PPM	PPM	PPM	PPM		
Arsenic	0.1000	0.1330	0.4000	ND	Pass	
Cadmium	0.1000	0.1330	0.4000	ND	Pass	
Lead	0.2500	0.3330	1.0000	ND	Pass	
Mercury	0.0500	0.0660	0.2000	ND	Pass	

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**Terpenes**

Analyte	LOQ	Result	Result	Q	Analyte	LOQ	Result	Result	Q
	%	%	mg/g			%	%	mg/g	
β-Myrcene	0.0010	0.8382	8.382	Q3	Carvone	0.0010	ND	ND	Q3
α-Pinene	0.0010	0.3525	3.525	Q3	Cedrol	0.0010	ND	ND	Q3
D,L-Limonene	0.0010	0.3333	3.333	Q3	cis-Citral	0.0010	ND	ND	Q3
β-Caryophyllene	0.0010	0.2490	2.490	Q3	cis-Farnesol	0.0010	ND	ND	Q3
β-Pinene	0.0010	0.1955	1.955	Q3	cis-Nerolidol	0.0010	ND	ND	Q3
α-Humulene	0.0010	0.1041	1.041	Q3	γ-Terpinene	0.0010	ND	ND	Q3
α-Terpineol	0.0010	0.0449	0.449	Q3	Geraniol	0.0010	ND	ND	Q3
Endo-Fenchyl Alcohol	0.0010	0.0398	0.398	Q3	Geranyl Acetate	0.0010	ND	ND	Q3
α-Bisabolol	0.0010	0.0344	0.344	Q3	Guaiol	0.0010	ND	ND	Q3
trans-Nerolidol	0.0010	0.0273	0.273	Q3	Isoborneol	0.0010	ND	ND	Q3
Citronellol	0.0010	0.0202	0.202	Q3	Isobornyl Acetate	0.0010	ND	ND	Q3
Camphene	0.0010	0.0129	0.129	Q3	Isopulegol	0.0010	ND	ND	Q3
Terpinolene	0.0010	0.0042	0.042	Q3	m-Cymene	0.0010	ND	ND	Q3
cis-beta-Ocimene	0.0010	0.0034	0.034	Q3	Menthol	0.0010	ND	ND	Q3
Terpinen-4-ol	0.0010	0.0028	0.028	Q3	L-Menthone	0.0010	ND	ND	Q3
Fenchone	0.0010	0.0027	0.027	Q3	Nerol	0.0010	ND	ND	Q3
Caryophyllene Oxide	0.0010	0.0025	0.025	Q3	Nootkatone	0.0010	ND	ND	Q3
Sabinene Hydrate	0.0010	0.0025	0.025	Q3	o,p-Cymene	0.0010	ND	ND	Q3
Linalool	0.0010	0.0020	0.020	Q3	Octyl Acetate	0.0010	ND	ND	Q3
Eucalyptol	0.0010	0.0016	0.016	Q3	Phytane	0.0010	ND	ND	Q3
3-Carene	0.0010	ND	ND	Q3	Piperitone	0.0010	ND	ND	Q3
α-Cedrene	0.0010	ND	ND	Q3	Pulegone	0.0010	ND	ND	Q3
α-Phellandrene	0.0010	ND	ND	Q3	Sabinene	0.0010	ND	ND	Q3
α-Terpinene	0.0010	ND	ND	Q3	Safranal	0.0010	ND	ND	Q3
α-Thujone	0.0010	ND	ND	Q3	Thymol	0.0010	ND	ND	Q3
trans-β-Farnesene	0.0010	ND	ND	Q3	trans-Citral	0.0010	ND	ND	Q3
D,L-Borneol	0.0010	ND	ND	Q3	trans-beta-Ocimene	0.0010	ND	ND	Q3
Camphor	0.0010	ND	ND	Q3	Valencene	0.0010	ND	ND	Q3
Carvacrol	0.0010	ND	ND	Q3	Verbenone	0.0010	ND	ND	Q3
						<b>Total</b>	<b>2.2737</b>	<b>22.737</b>	


**Primary Aromas**



Hops



Pine



Orange



Cinnamon



Basil

Date Tested: 12/12/2024 12:00 am  
Terpenes analysis is not regulated by AZDHS.



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**Qualifiers Definitions**

Qualifier Notation	Qualifier Description
I1	The relative intensity of a characteristic ion in a sample analyte exceeded the acceptance criteria in subsection (L)(1) with respect to the reference spectra, indicating interference
L1	When testing for pesticides, fungicides, herbicides, growth regulators, heavy metals, or residual solvents, the percent recovery of a laboratory control sample is greater than the acceptance limits in subsection (K)(2)(c), but the sample's target analytes were not detected above the maximum allowable concentrations in Table 3.1 for the analytes in the sample
M1	The recovery from the matrix spike in subsection (K)(4) was: a. High, but the recovery from the laboratory control sample in subsection (K)(2) was within acceptance criteria
M2	The recovery from the matrix spike in subsection (K)(4) was: b. Low, but the recovery from the laboratory control sample in subsection (K)(2) was within acceptance criteria
M3	The recovery from the matrix spike in subsection (K)(4) was: c. Unusable because the analyte concentration was disproportionate to the spike level, but the recovery from the laboratory control sample in subsection (K)(2) was within acceptance criteria
R1	The relative percent difference for the laboratory control sample and duplicate exceeded the limit in subsection (K)(3), but the recovery in subsection (K)(2) was within acceptance criteria
V1	The recovery from continuing calibration verification standards exceeded the acceptance limits in subsection (J)(1)(b), but the sample's target analytes were not detected above the maximum allowable concentrations in Table 3.1 for the analytes in the sample
Q2	The sample is heterogeneous, and sample homogeneity could not be readily achieved using routine laboratory practices - Used to denote that the sample as-received could not be fully pre-homogenized in packaging prior to microbiology analysis
Q3	Testing result is for informational purposes only and cannot be used to satisfy dispensary testing requirements in R9-17-317.01(A) or labeling requirements in R9-17-317

**Customer Supplied Information:**

**Notes and Addenda:**



Bryant Kearl  
Chief Scientific Officer  
12/16/2024

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