

790 Main St

Wareham, MA 02571 License #: IL281355

Phone: 508-295-2550



**Customer:** Trade Roots

Address:

6 Thatcher Lane Wareham MA 02571

Phone: 774-326-0077

License #: MP281436 & MC281262



**Sample ID:** 13293

Sample Name: M00002852339: Summertime

Sadness-Bulk Flower

Sample Strain: Summertime Sadness

Sample Type: Flower Received Date: 05/31/2024 Report Date: 06/05/2024

METRC ID: 1A40A0300006BD1000005395

**METRC Source ID:** 

1A40A0300006BD1000005388 Client Batch ID: SMR-053024-B2 Client Sample Size: 6 g

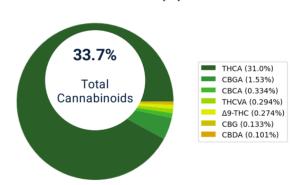
## **Certificate of Analysis**



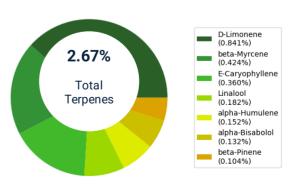
### **Results Summary**

Cannabinoids	TESTED
06/04/2024	
Terpenes Extended	TESTED
06/04/2024	
Heavy Metals	✓ PASS
06/04/2024	
Microbial Impurities	✓ PASS
06/04/2024	
Pesticides and	▼ PASS
Mycotoxins	M FASS
06/04/2024	

#### Cannabinoid Distribution (%)



#### **Terpene Distribution (%)**



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### **Cannabinoids**

Date Started: 06/03/2024Date Completed: 06/04/2024Analyst: Yuemin Wang KovaleffInstrument: UPLC-PDAMethod: TP-09.001.05 & TP-09.012.05Deviation: N/A

Cannabinoid	Result (%)	Result (mg/g)	LOD (%)	LOQ (%)
THCA	31.0	310	0.0910	0.568
CBGA	1.53	15.3	0.00223	0.0284
CBCA	0.334	3.34	0.00732	0.0227
THCVA	0.294	2.94	0.00241	0.0227
Δ9-THC	0.274	2.74	0.0105	0.0568
CBG	0.133	1.33	0.00247	0.0284
CBDA	0.101	1.01	0.00358	0.0568
CBDVA	ND	ND	0.00382	0.0227
CBDV	ND	ND	0.0109	0.0227
CBD	ND	ND	0.00440	0.0568
Δ9-THCV	ND	ND	0.00307	0.0227
Δ8-THCV	ND	ND	0.00555	0.0227
CBN	ND	ND	0.00389	0.0284
CBNA	ND	ND	0.00300	0.0227
Exo-THC	ND	ND	0.00455	0.0227
Δ8-THC	ND	ND	0.00996	0.0284
CBL	ND	ND	0.00673	0.0227
CBC	ND	ND	0.00269	0.0227
Total THC	27.5	275		
Total CBD	0.0883	0.883		
<b>Total Cannabinoids</b>	33.7	337		

Total THC =  $\Delta$ 9-THC + (THCA-A x 0.877) Total CBD = CBD + (CBDA x 0.877)

**Total Cannabinoids** = Sum of all cannabinoids without THC/CBD corrections.

**LOD** = Limit of Detection; **LOQ** = Limit of Quantitation; **ND** = Not Detected.







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## **Terpenes Extended**

Date Started: 06/03/2024 **Date Completed: 06/04/2024** Analyst: Yuemin Wang Kovaleff Instrument: GC-MS

Method: TP-09.004.03 Deviation: N/A

Terpene	Result (%)	Result (mg/g)	LOD (%)	LOQ (%)
D-Limonene	0.841	8.41	0.00120	0.00568
beta-Myrcene	0.424	4.24	0.000955	0.00568
E-Caryophyllene	0.360	3.60	0.00250	0.00568
Linalool	0.182	1.82	0.00173	0.00568
alpha-Humulene	0.152	1.52	0.00123	0.00568
alpha-Bisabolol	0.132	1.32	0.00211	0.00568
beta-Pinene	0.104	1.04	0.00118	0.00568
Endo-Fenchyl Alcohol	0.0941	0.941	0.00189	0.00568
alpha-Pinene	0.0929	0.929	0.000477	0.00568
alpha-Terpineol	0.0813	0.813	0.00215	0.00568
Carophyllene Oxide	0.0700	0.700	0.00129	0.00568
[+/-]-Borneol	0.0319	0.319	0.00220	0.0114
Camphene	0.0239	0.239	0.000628	0.00568
Z-beta-Ocimene	0.0169	0.169	0.00230	0.00568
E-beta-Ocimene	0.0169	0.169	0.00235	0.00568
Terpinolene	0.0140	0.140	0.000709	0.00568
Eucalyptol	0.00977	0.0977	0.00172	0.00568
[+/-]-Fenchone	<loq< td=""><td><loq< td=""><td>0.00126</td><td>0.0114</td></loq<></td></loq<>	<loq< td=""><td>0.00126</td><td>0.0114</td></loq<>	0.00126	0.0114
alpha-Cedrene	<loq< td=""><td><loq< td=""><td>0.00172</td><td>0.00568</td></loq<></td></loq<>	<loq< td=""><td>0.00172</td><td>0.00568</td></loq<>	0.00172	0.00568
Menthol	<loq< td=""><td><loq< td=""><td>0.00190</td><td>0.00568</td></loq<></td></loq<>	<loq< td=""><td>0.00190</td><td>0.00568</td></loq<>	0.00190	0.00568
alpha-Phellandrene	<loq< td=""><td><loq< td=""><td>0.000887</td><td>0.00568</td></loq<></td></loq<>	<loq< td=""><td>0.000887</td><td>0.00568</td></loq<>	0.000887	0.00568
gamma-Terpinene	<loq< td=""><td><loq< td=""><td>0.00129</td><td>0.00568</td></loq<></td></loq<>	<loq< td=""><td>0.00129</td><td>0.00568</td></loq<>	0.00129	0.00568
delta-3-Carene	ND	ND	0.00186	0.00568
gamma-Terpineol	ND	ND	0.00102	0.00568
Isopulegol	ND	ND	0.00276	0.00568
Nerol	ND	ND	0.00179	0.00568
Geraniol	ND	ND	0.00177	0.00568
Pulegone	ND	ND	0.00216	0.00568
Valencene	ND	ND	0.00150	0.00568
Z-Nerolidol	ND	ND	0.00154	0.00568
E-Nerolidol	ND	ND	0.00130	0.00568
Guaiol	ND	ND	0.00124	0.00568
Sabinene	ND	ND	0.00194	0.00568
Sabinene Hydrate	ND	ND	0.00190	0.00568
Isoborneol	ND	ND	0.00122	0.00568
Geranyl Acetate	ND	ND	0.00267	0.00568
Cedrol	ND	ND	0.00231	0.00568
[+,N,-]-Camphor	ND	ND	0.00420	0.0171
alpha-Terpinene	ND	ND	0.00174	0.00568
Total Terpenes	2.67	26.7		

## **Heavy Metals**



Date Started: 06/04/2024 **Date Completed:** 06/04/2024 Analyst: Meagan Mattos Instrument: ICP-MS Method: TP-09.007.01 Deviation: N/A

<b>Heavy Metals</b>	Result (ppb)	LOD (ppb)	LOQ (ppb)	Limit (ppb)	Status
Arsenic	<l0q< td=""><td>7.59</td><td>51.3</td><td>200</td><td>Pass</td></l0q<>	7.59	51.3	200	Pass
Cadmium	ND	4.55	51.3	200	Pass
Lead	67.9	4.18	51.3	500	Pass
Mercury	ND	3.65	25.6	100	Pass

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## **Microbial Impurities**



**PASS** 

Date Started: 05/31/2024Date Completed: 06/04/2024Analyst: Garrett LaneInstrument: TEMPO & Gene-UpMethod: TP-09.010.01 & TP-09.011.01Deviation: N/A

Microbials	Result (CFU/g)	Limit (CFU/g)	Status	
Coliforms	ND	1000	Pass	
Bile-Tolerant Gram-Negative Bacteria	ND	1000	Pass	
Yeast & Mold	8100	10000	Pass	
Aerobic Bacteria	ND	100000	Pass	
E.coli	ND		Pass	
Salmonella	ND		Pass	

## **Pesticides and Mycotoxins**



**PASS** 

Date Started: 05/31/2024Date Completed: 06/04/2024Analyst: Yuemin Wang KovaleffInstrument: LC-MS/MS & GC-MS/MSMethod: TP-09.008.02 & TP-09.009.04Deviation: N/A

Analyte	Result (ppb)	LOD (ppb)	LOQ (ppb)	Limit (ppb)	Status
Bifenazate	ND	0.617	3.73	10.0	Pass
Bifenthrin	ND	1.31	3.73	10.0	Pass
Cyfluthrin	ND	0.495	3.11	10.0	Pass
Etoxazole	ND	0.905	3.73	10.0	Pass
Imazalil	ND	0.930	3.73	10.0	Pass
Imidacloprid	ND	0.435	3.73	10.0	Pass
Myclobutanil	ND	1.02	3.73	10.0	Pass
Spiromesifen	ND	1.09	3.73	10.0	Pass
Trifloxystrobin	ND	0.574	3.73	10.0	Pass
Aflatoxin B1	ND	2.02	4.97		
Aflatoxin B2	ND	0.400	3.73		
Aflatoxin G1	ND	0.415	3.73		
Aflatoxin G2	ND	1.05	4.97		
Ochratoxin A	ND	1.15	3.73		
Total Mycotoxins	ND	0.400	3.73	20.0	Pass

Eric Steele, Lab Director 06/05/2024

**END OF REPORT** 

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