

790 Main St

Wareham, MA 02571 License #: IL281355 Phone: 508-295-2550

# **Certificate of Analysis**



Customer: Bostica, LLC

Address:

71 Linden Street Lynn MA 01905

Phone: 978-569-4063 License #: MC282139



**Sample ID: 21380** 

Sample Name: M00003024617: Gorilla Nut

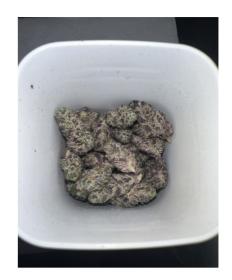
Popcorn

Sample Strain: Gorilla Nut Sample Type: Flower Received Date: 12/10/2024 Report Date: 12/13/2024

METRC ID: 1A40A030000E1C9000012400

**METRC Source ID:** 

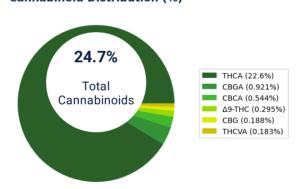
1A40A030000E1C9000012255 Client Batch ID: 111824GRNTF85 Client Sample Size: 7 grams



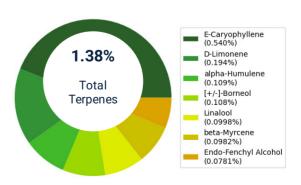
### **Results Summary**

Cannabinoids	TESTED
12/13/2024	
Terpenes Extended	TESTED
12/13/2024	
Heavy Metals	✓ PASS
12/11/2024	
Microbial Impurities	✓ PASS
12/13/2024	
Pesticides and	✓ PASS
Mycotoxins	M PASS
12/12/2024	

### Cannabinoid Distribution (%)



#### Terpene Distribution (%)



Disclaimer. The results presented within this report pertain only to the sample(s) indicated, as received by Smithers AMS LLC. Smithers AMS LLC is responsible for the information provided in this report, unless indicated that the customer provided the information. This report shall not be reproduced, except in full, without the written approval of Smithers AMS LLC. Action limits used to dictate pass/fail criteria are set by the Massachusetts Cannabis Control Commission.



**Report Number: 21380.V1** Page 1 of 4 Pov





790 Main St Wareham, MA 02571

License #: IL281355 Phone: 508-295-2550

# **Certificate of Analysis**

### **Cannabinoids**

Date Started: 12/11/2024 **Date Completed: 12/13/2024** Analyst: Yuemin Wang Kovaleff Instrument: UPLC-PDA Method: TP-09.001.05 & TP-09.012.05 Deviation: N/A

Cannabinoid	Result (%)	Result (mg/g)	LOD (%)	LOQ (%)
THCA	22.6	226	0.111	0.694
CBGA	0.921	9.21	0.00272	0.0347
CBCA	0.544	5.44	0.00894	0.0278
Δ9-THC	0.295	2.95	0.0128	0.0694
CBG	0.188	1.88	0.00301	0.0347
THCVA	0.183	1.83	0.00295	0.0278
CBDA	<loq< td=""><td><loq< td=""><td>0.00438</td><td>0.0694</td></loq<></td></loq<>	<loq< td=""><td>0.00438</td><td>0.0694</td></loq<>	0.00438	0.0694
CBDVA	ND	ND	0.00467	0.0278
CBDV	ND	ND	0.0133	0.0278
CBD	ND	ND	0.00537	0.0694
Δ9-THCV	ND	ND	0.00374	0.0278
Δ8-THCV	ND	ND	0.00677	0.0278
CBN	ND	ND	0.00475	0.0347
CBNA	ND	ND	0.00366	0.0278
Exo-THC	ND	ND	0.00555	0.0278
Δ8-THC	ND	ND	0.0122	0.0347
CBL	ND	ND	0.00822	0.0278
CBC	ND	ND	0.00329	0.0278
Total THC	20.1	201		
Total CBD	<loq< td=""><td><loq< td=""><td></td><td></td></loq<></td></loq<>	<loq< td=""><td></td><td></td></loq<>		
<b>Total Cannabinoids</b>	24.7	247		

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

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

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

Report Number: 21380.V1



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# **Certificate of Analysis**

## **Terpenes Extended**

Date Started: 12/11/2024 **Date Completed: 12/13/2024** Analyst: Garrett Lane Instrument: GC-MS Method: TP-09.004.03 Deviation: N/A

E-Caryophyllene	Terpene	Result (%)	Result (mg/g)	LOD (%)	LOQ (%)
alpha-Humulene	E-Caryophyllene	0.540		0.00305	0.00694
F+/- Borneol	D-Limonene	0.194	1.94	0.00147	0.00694
Linalool         0.0998         0.998         0.00212         0.00694           beta-Myrcene         0.0982         0.982         0.00117         0.00694           Endo-Fenchyl Alcohol         0.0781         0.781         0.00231         0.00694           alpha-Terpineol         0.0342         0.342         0.00262         0.00694           beta-Pinene         0.0329         0.329         0.00144         0.00694           alpha-Bisabolol         0.0267         0.267         0.0674         0.00754         0.00157         0.00694           Carophyllene Oxide         0.00764         0.0764         0.00157         0.00694         0.00764         0.00764         0.00766         0.00694           Sabinene Hydrate         <0.00	alpha-Humulene	0.109	1.09	0.00150	0.00694
beta-Myrcene					0.0139
Endo-Fenchyl Alcohol         0.0781         0.781         0.00231         0.00694           alpha-Terpineol         0.0342         0.342         0.00262         0.00694           beta-Pinene         0.0329         0.329         0.00144         0.00694           alpha-Pinene         0.0294         0.294         0.00583         0.00694           alpha-Bisabolol         0.0267         0.267         0.00257         0.00694           Carophyllene Oxide         0.00764         0.0764         0.00157         0.00694           Camphene <loq< td=""> <loq< td="">         0.00157         0.00694           Sabinene Hydrate         <loq< td=""> <loq< td="">         0.00232         0.00694           Z-beta-Ocimene         <loq< td=""> <loq< td="">         0.00281         0.00694           Terpinolene         <loq< td=""> <loq< td="">         0.00281         0.00694           [+/-]-Fenchone         <loq< td=""> <loq< td="">         0.00386         0.00694           [+/-]-Fenchone         <loq< td=""> <loq< td="">         0.00287         0.00694           [-/-]-Fenchone         ND         ND         0.00287         0.00694           [-/]-Fenchone         ND         ND         0.00287         0.00694</loq<></loq<></loq<></loq<></loq<></loq<></loq<></loq<></loq<></loq<></loq<></loq<>	Linalool	0.0998	0.998	0.00212	0.00694
alpha-Terpineol         0.0342         0.342         0.00262         0.00694           beta-Pinene         0.0329         0.329         0.00144         0.00694           alpha-Pinene         0.0294         0.294         0.000583         0.00694           alpha-Bisabolol         0.0267         0.267         0.00257         0.00694           Carophyllene Oxide         0.00764         0.0764         0.00157         0.00694           Camphene <loq< td=""> <loq< td="">         0.00232         0.00694           Sabinene Hydrate         <loq< td=""> <loq< td="">         0.00232         0.00694           Z-beta-Ocimene         <loq< td=""> <loq< td="">         0.00281         0.00694           If-/j-Fenchone         <loq< td=""> <loq< td="">         0.00281         0.00694           If-/j-Fenchone         <loq< td=""> <loq< td="">         0.00287         0.00694           If-/j-Fenchone         <loq< td=""> <loq< td="">         0.00287         0.00694           If-y-Fenchone         <loq< td=""> <loq< td="">         0.00287         0.00694           If-y-Fenchone         <loq< td=""> <loq< td="">         0.00287         0.00694           If-y-Fenchone         <loq< td=""> <loq< td="">         0.00287         0.00694</loq<></loq<></loq<></loq<></loq<></loq<></loq<></loq<></loq<></loq<></loq<></loq<></loq<></loq<></loq<></loq<></loq<></loq<>	beta-Myrcene	0.0982	0.982	0.00117	0.00694
beta-Pinene         0.0329         0.329         0.00144         0.00694           alpha-Pinene         0.0294         0.294         0.000583         0.00694           alpha-Bisabolol         0.0267         0.267         0.00257         0.00694           Carophyllene Oxide         0.00764         0.0764         0.00157         0.00694           Camphene <loq< td=""> <loq< td="">         0.00232         0.00694           Sabinene Hydrate         <loq< td=""> <loq< td="">         0.00232         0.00694           Z-beta-Ocimene         <loq< td=""> <loq< td="">         0.00281         0.00694           Terpinolene         <loq< td=""> <loq< td="">         0.00866         0.00694           Ir/-J-Enchone         <loq< td=""> <loq< td="">         0.00154         0.0139           E-beta-Ocimene         ND         ND         ND         0.00287         0.00694           gamma-Terpineol         ND         ND         ND         0.00287         0.00694           Isopulegol         ND         ND         ND         0.00336         0.00694           Nerol         ND         ND         0.00336         0.00694           Geraniol         ND         ND         0.00219         0.00694<!--</td--><td>Endo-Fenchyl Alcohol</td><td>0.0781</td><td>0.781</td><td>0.00231</td><td>0.00694</td></loq<></loq<></loq<></loq<></loq<></loq<></loq<></loq<></loq<></loq<>	Endo-Fenchyl Alcohol	0.0781	0.781	0.00231	0.00694
alpha-Pinene         0.0294         0.294         0.000583         0.00694           alpha-Bisabolol         0.0267         0.267         0.00257         0.00694           Carophyllene Oxide         0.00764         0.0764         0.00157         0.00694           Camphene <t.loq< td=""> <t.loq< td="">         0.000766         0.00694           Sabinene Hydrate         <t.loq< td=""> <t.loq< td="">         0.00232         0.00694           Z-beta-Ocimene         <t.loq< td=""> <t.loq< td="">         0.00281         0.00694           Terpinolene         <t.loq< td=""> <t.loq< td="">         0.00154         0.0139           E-beta-Ocimene         ND         ND         0.00287         0.00694           [+/-]-Fenchone         <t.loq< td=""> <t.loq< td="">         0.00154         0.0139           E-beta-Ocimene         ND         ND         0.00287         0.00694           [+/-]-Fenchone         <t.loq< td=""> <t.loq< td="">         0.00154         0.0139           E-beta-Ocimene         ND         ND         0.00287         0.00694           [+/-]-Fenchone         <t.loq< td=""> <t.loq< td="">         0.00154         0.0139           Isopulegol         ND         ND         0.00287         0.00694</t.loq<></t.loq<></t.loq<></t.loq<></t.loq<></t.loq<></t.loq<></t.loq<></t.loq<></t.loq<></t.loq<></t.loq<></t.loq<></t.loq<>	alpha-Terpineol	0.0342	0.342	0.00262	0.00694
alpha-Bisabolol         0.0267         0.267         0.00257         0.00694           Carophyllene Oxide         0.00764         0.0764         0.00157         0.00694           Camphene <loq< td=""> <loq< td="">         0.000766         0.00694           Sabinene Hydrate         <loq< td=""> <loq< td="">         0.00232         0.00694           Z-beta-Ocimene         <loq< td=""> <loq< td="">         0.00281         0.00694           Terpinolene         <loq< td=""> <loq< td="">         0.000866         0.00694           I+/-J-Enchone         <loq< td=""> <loq< td="">         0.00154         0.0139           E-beta-Ocimene         ND         ND         0.00287         0.00694           garmar-Terpineol         ND         ND         0.00124         0.00694           lsopulegol         ND         ND         0.00214         0.00694           Nerol         ND         ND         0.00216         0.00694           Geraniol         ND         ND         0.00216         0.00694           Pulegone         ND         ND         0.00263         0.00694           Valencene         ND         ND         0.00183         0.00694           Z-Nerolidol         ND</loq<></loq<></loq<></loq<></loq<></loq<></loq<></loq<></loq<></loq<>	beta-Pinene	0.0329	0.329	0.00144	0.00694
Carophyllene Oxide         0.00764         0.0764         0.00157         0.00694           Camphene <t.dq< td=""> <t.loq< td="">         0.000766         0.00694           Sabinene Hydrate         <t.dq< td=""> <t.loq< td="">         0.00281         0.00694           Z-beta-Ocimene         <t.loq< td=""> <t.loq< td="">         0.000866         0.00694           Terpinolene         <t.loq< td=""> <t.loq< td="">         0.00154         0.0139           E-beta-Ocimene         ND         ND         0.00287         0.00694           gamma-Terpineol         ND         ND         0.00287         0.00694           gamma-Terpineol         ND         ND         0.00236         0.00694           Isopulegol         ND         ND         0.00336         0.00694           Nerol         ND         ND         0.00219         0.00694           Geraniol         ND         ND         0.00216         0.00694           Pulegone         ND         ND         0.00263         0.00694           Valencene         ND         ND         0.00138         0.00694           E-Nerolidol         ND         ND         0.00188         0.00694           E-Nerolidol         ND</t.loq<></t.loq<></t.loq<></t.loq<></t.loq<></t.dq<></t.loq<></t.dq<>	alpha-Pinene	0.0294	0.294	0.000583	0.00694
Camphene         < LOQ         < LOQ         0.000766         0.00694           Sabinene Hydrate         < LOQ	alpha-Bisabolol	0.0267	0.267	0.00257	0.00694
Sabinene Hydrate	Carophyllene Oxide	0.00764	0.0764	0.00157	0.00694
Z-beta-Ocimene	Camphene	<loq< td=""><td><loq< td=""><td>0.000766</td><td>0.00694</td></loq<></td></loq<>	<loq< td=""><td>0.000766</td><td>0.00694</td></loq<>	0.000766	0.00694
Terpinolene <loq< td=""> <loq< td="">         0.000866         0.00694           [+/-]-Fenchone         <loq< td=""> <loq< td="">         0.00154         0.0139           E-beta-Ocimene         ND         ND         0.00287         0.00694           gamma-Terpineol         ND         ND         0.00124         0.00694           Isopulegol         ND         ND         0.00336         0.00694           Nerol         ND         ND         0.00219         0.00694           Geraniol         ND         ND         0.00216         0.00694           Pulegone         ND         ND         0.00263         0.00694           Valencene         ND         ND         0.00183         0.00694           Z-Nerolidol         ND         ND         0.00188         0.00694           E-Nerolidol         ND         ND         0.00188         0.00694           E-Nerolidol         ND         ND         0.00158         0.00694           Eucalyptol         ND         ND         0.00158         0.00694           Guaiol         ND         ND         0.00237         0.00694           Sabinene         ND         ND         ND         0.00237&lt;</loq<></loq<></loq<></loq<>	Sabinene Hydrate	<loq< td=""><td><loq< td=""><td>0.00232</td><td>0.00694</td></loq<></td></loq<>	<loq< td=""><td>0.00232</td><td>0.00694</td></loq<>	0.00232	0.00694
[+/-]-Fenchone <loq< td=""> <loq< td="">         0.00154         0.0139           E-beta-Ocimene         ND         ND         0.00287         0.00694           gamma-Terpineol         ND         ND         0.00124         0.00694           Isopulegol         ND         ND         0.00336         0.00694           Nerol         ND         ND         0.00219         0.00694           Geraniol         ND         ND         0.00216         0.00694           Pulegone         ND         ND         0.00263         0.00694           Valencene         ND         ND         0.00183         0.00694           Z-Nerolidol         ND         ND         0.00188         0.00694           E-Nerolidol         ND         ND         0.00158         0.00694           E-Nerolidol         ND         ND         0.00158         0.00694           Eucalyptol         ND         ND         0.00158         0.00694           Eucalyptol         ND         ND         0.00210         0.00694           Sabinene         ND         ND         ND         0.00237         0.00694           Isoborneol         ND         ND         0.00149<td>Z-beta-Ocimene</td><td><loq< td=""><td><loq< td=""><td>0.00281</td><td>0.00694</td></loq<></td></loq<></td></loq<></loq<>	Z-beta-Ocimene	<loq< td=""><td><loq< td=""><td>0.00281</td><td>0.00694</td></loq<></td></loq<>	<loq< td=""><td>0.00281</td><td>0.00694</td></loq<>	0.00281	0.00694
E-beta-Ocimene         ND         ND         0.00287         0.00694           gamma-Terpineol         ND         ND         0.00124         0.00694           Isopulegol         ND         ND         0.00336         0.00694           Nerol         ND         ND         0.00219         0.00694           Geraniol         ND         ND         0.00216         0.00694           Pulegone         ND         ND         0.00263         0.00694           Valencene         ND         ND         0.00183         0.00694           Z-Nerolidol         ND         ND         0.00188         0.00694           E-Nerolidol         ND         ND         0.00158         0.00694           Guaiol         ND         ND         0.00158         0.00694           Eucalyptol         ND         ND         0.00151         0.00694           Eucalyptol         ND         ND         0.00210         0.00694           Sabinene         ND         ND         ND         0.00237         0.00694           Isoborneol         ND         ND         0.00188         0.00694           Isoborneol         ND         ND         0.00232         <	Terpinolene	<loq< td=""><td><loq< td=""><td>0.000866</td><td>0.00694</td></loq<></td></loq<>	<loq< td=""><td>0.000866</td><td>0.00694</td></loq<>	0.000866	0.00694
gamma-Terpineol         ND         ND         0.00124         0.00694           Isopulegol         ND         ND         0.00336         0.00694           Nerol         ND         ND         0.00219         0.00694           Geraniol         ND         ND         0.00216         0.00694           Pulegone         ND         ND         0.00263         0.00694           Valencene         ND         ND         0.00183         0.00694           Z-Nerolidol         ND         ND         0.00183         0.00694           E-Nerolidol         ND         ND         0.00158         0.00694           Guaiol         ND         ND         0.00158         0.00694           Eucalyptol         ND         ND         0.00215         0.00694           Sabinene         ND         ND         0.00221         0.00694           Sabinene         ND         ND         0.00237         0.00694           Isoborneol         ND         ND         0.00149         0.00694           Isoborneol         ND         ND         0.00232         0.00694           Menthol         ND         ND         0.00232         0.00694	[+/-]-Fenchone	<loq< td=""><td><loq< td=""><td>0.00154</td><td>0.0139</td></loq<></td></loq<>	<loq< td=""><td>0.00154</td><td>0.0139</td></loq<>	0.00154	0.0139
Isopulegol   ND	E-beta-Ocimene	ND	ND	0.00287	0.00694
Nerol         ND         ND         0.00219         0.00694           Geraniol         ND         ND         0.00216         0.00694           Pulegone         ND         ND         0.00263         0.00694           Valencene         ND         ND         0.00183         0.00694           Z-Nerolidol         ND         ND         0.00188         0.00694           E-Nerolidol         ND         ND         0.00158         0.00694           Guaiol         ND         ND         0.00158         0.00694           Eucalyptol         ND         ND         0.00210         0.00694           Sabinene         ND         ND         0.00237         0.00694           Isoborneol         ND         ND         0.00108         0.00694           Isoborneol         ND         ND         0.00149         0.00694           Menthol         ND         ND         0.00232         0.00694           Geranyl Acetate         ND         ND         0.002210         0.00694           Cedrol         ND         ND         0.00228         0.00694           I+,N-j-Camphor         ND         ND         0.00227         0.00694	gamma-Terpineol	ND	ND	0.00124	0.00694
Geraniol         ND         ND         0.00216         0.00694           Pulegone         ND         ND         0.00263         0.00694           Valencene         ND         ND         0.00183         0.00694           Z-Nerolidol         ND         ND         0.00188         0.00694           E-Nerolidol         ND         ND         0.00158         0.00694           Guaiol         ND         ND         0.00151         0.00694           Eucalyptol         ND         ND         0.00210         0.00694           Sabinene         ND         ND         0.00237         0.00694           alpha-Phellandrene         ND         ND         0.00108         0.00694           Isoborneol         ND         ND         0.00149         0.00694           Menthol         ND         ND         0.00232         0.00694           Melha-Cedrene         ND         ND         0.00232         0.00694           Geranyl Acetate         ND         ND         0.00232         0.00694           Cedrol         ND         ND         0.00283         0.00694           [+,N,-]-Camphor         ND         ND         0.00233         0.00694	Isopulegol	ND	ND	0.00336	0.00694
Pulegone         ND         ND         0.00263         0.00694           Valencene         ND         ND         0.00183         0.00694           Z-Nerolidol         ND         ND         0.00188         0.00694           E-Nerolidol         ND         ND         0.00158         0.00694           Guaiol         ND         ND         0.00151         0.00694           Eucalyptol         ND         ND         0.00210         0.00694           Sabinene         ND         ND         0.00237         0.00694           alpha-Phellandrene         ND         ND         0.00108         0.00694           Isoborneol         ND         ND         0.00149         0.00694           Menthol         ND         ND         0.00232         0.00694           Alpha-Cedrene         ND         ND         0.00210         0.00694           Geranyl Acetate         ND         ND         0.00220         0.00694           Cedrol         ND         ND         0.00283         0.00694           [+,N,-]-Camphor         ND         ND         0.00227         0.00694           delta-3-Carene         ND         ND         0.00227         0	Nerol	ND	ND	0.00219	0.00694
Valencene         ND         ND         0.00183         0.00694           Z-Nerolidol         ND         ND         0.00188         0.00694           E-Nerolidol         ND         ND         0.00158         0.00694           Guaiol         ND         ND         0.00151         0.00694           Eucalyptol         ND         ND         0.00210         0.00694           Sabinene         ND         ND         0.00237         0.00694           alpha-Phellandrene         ND         ND         0.00108         0.00694           Isoborneol         ND         ND         0.00149         0.00694           Menthol         ND         ND         0.00232         0.00694           Menthol         ND         ND         0.00232         0.00694           Geranyl Acetate         ND         ND         0.00210         0.00694           Geranyl Acetate         ND         ND         0.00283         0.00694           [+,N,-]-Camphor         ND         ND         0.00513         0.0208           delta-3-Carene         ND         ND         0.00227         0.00694           alpha-Terpinene         ND         ND         0.00213	Geraniol	ND	ND	0.00216	0.00694
Z-Nerolidol         ND         ND         0.00188         0.00694           E-Nerolidol         ND         ND         0.00158         0.00694           Guaiol         ND         ND         0.00151         0.00694           Eucalyptol         ND         ND         0.00210         0.00694           Sabinene         ND         ND         0.00237         0.00694           alpha-Phellandrene         ND         ND         0.00108         0.00694           Isoborneol         ND         ND         0.00149         0.00694           Menthol         ND         ND         0.00232         0.00694           Menthol         ND         ND         0.00210         0.00694           Geranyl Acetate         ND         ND         0.00210         0.00694           Cedrol         ND         ND         0.00283         0.00694           [+,N,-]-Camphor         ND         ND         0.00513         0.0208           delta-3-Carene         ND         ND         0.00227         0.00694           alpha-Terpinene         ND         ND         0.00213         0.00694           gamma-Terpinene         ND         ND         0.00157	Pulegone	ND	ND	0.00263	0.00694
E-Nerolidol         ND         ND         0.00158         0.00694           Guaiol         ND         ND         0.00151         0.00694           Eucalyptol         ND         ND         0.00210         0.00694           Sabinene         ND         ND         0.00237         0.00694           alpha-Phellandrene         ND         ND         0.00108         0.00694           Isoborneol         ND         ND         0.00149         0.00694           Menthol         ND         ND         0.00232         0.00694           alpha-Cedrene         ND         ND         0.00210         0.00694           Geranyl Acetate         ND         ND         0.00326         0.00694           Cedrol         ND         ND         0.00283         0.00694           [+,N,-]-Camphor         ND         ND         0.00513         0.0208           delta-3-Carene         ND         ND         0.00227         0.00694           alpha-Terpinene         ND         ND         0.00213         0.00694           gamma-Terpinene         ND         ND         0.00157         0.00694	Valencene	ND	ND	0.00183	0.00694
Guaiol         ND         ND         0.00151         0.00694           Eucalyptol         ND         ND         0.00210         0.00694           Sabinene         ND         ND         0.00237         0.00694           alpha-Phellandrene         ND         ND         0.00108         0.00694           Isoborneol         ND         ND         0.00149         0.00694           Menthol         ND         ND         0.00232         0.00694           alpha-Cedrene         ND         ND         0.00210         0.00694           Geranyl Acetate         ND         ND         0.00326         0.00694           Cedrol         ND         ND         0.00283         0.00694           [+,N,-]-Camphor         ND         ND         0.00513         0.0208           delta-3-Carene         ND         ND         0.00227         0.00694           alpha-Terpinene         ND         ND         0.00213         0.00694           gamma-Terpinene         ND         ND         0.00157         0.00694	Z-Nerolidol	ND	ND	0.00188	0.00694
Eucalyptol         ND         ND         0.00210         0.00694           Sabinene         ND         ND         0.00237         0.00694           alpha-Phellandrene         ND         ND         0.00108         0.00694           Isoborneol         ND         ND         0.00149         0.00694           Menthol         ND         ND         0.00232         0.00694           alpha-Cedrene         ND         ND         0.00210         0.00694           Geranyl Acetate         ND         ND         0.00326         0.00694           Cedrol         ND         ND         0.00283         0.00694           [+,N,-]-Camphor         ND         ND         0.00513         0.0208           delta-3-Carene         ND         ND         0.00227         0.00694           alpha-Terpinene         ND         ND         0.00213         0.00694           gamma-Terpinene         ND         ND         0.00157         0.00694	E-Nerolidol	ND	ND	0.00158	0.00694
Sabinene         ND         ND         0.00237         0.00694           alpha-Phellandrene         ND         ND         0.00108         0.00694           Isoborneol         ND         ND         0.00149         0.00694           Menthol         ND         ND         0.00232         0.00694           alpha-Cedrene         ND         ND         0.00210         0.00694           Geranyl Acetate         ND         ND         0.00326         0.00694           Cedrol         ND         ND         0.00283         0.00694           [+,N,-]-Camphor         ND         ND         0.00513         0.0208           delta-3-Carene         ND         ND         0.00227         0.00694           alpha-Terpinene         ND         ND         0.00213         0.00694           gamma-Terpinene         ND         ND         0.00157         0.00694	Guaiol	ND	ND	0.00151	0.00694
alpha-Phellandrene         ND         ND         0.00108         0.00694           Isoborneol         ND         ND         0.00149         0.00694           Menthol         ND         ND         0.00232         0.00694           alpha-Cedrene         ND         ND         0.00210         0.00694           Geranyl Acetate         ND         ND         0.00326         0.00694           Cedrol         ND         ND         0.00283         0.00694           [+,N,-]-Camphor         ND         ND         0.00513         0.0208           delta-3-Carene         ND         ND         0.00227         0.00694           alpha-Terpinene         ND         ND         0.00213         0.00694           gamma-Terpinene         ND         ND         0.00157         0.00694	Eucalyptol	ND	ND	0.00210	0.00694
Isoborneol         ND         ND         0.00149         0.00694           Menthol         ND         ND         0.00232         0.00694           alpha-Cedrene         ND         ND         0.00210         0.00694           Geranyl Acetate         ND         ND         0.00326         0.00694           Cedrol         ND         ND         0.00283         0.00694           [+,N,-]-Camphor         ND         ND         0.00513         0.0208           delta-3-Carene         ND         ND         0.00227         0.00694           alpha-Terpinene         ND         ND         0.00213         0.00694           gamma-Terpinene         ND         ND         0.00157         0.00694	Sabinene	ND	ND	0.00237	0.00694
Menthol         ND         ND         0.00232         0.00694           alpha-Cedrene         ND         ND         0.00210         0.00694           Geranyl Acetate         ND         ND         0.00326         0.00694           Cedrol         ND         ND         0.00283         0.00694           [+,N,-]-Camphor         ND         ND         0.00513         0.0208           delta-3-Carene         ND         ND         0.00227         0.00694           alpha-Terpinene         ND         ND         0.00213         0.00694           gamma-Terpinene         ND         ND         0.00157         0.00694	alpha-Phellandrene	ND	ND	0.00108	0.00694
alpha-Cedrene         ND         ND         0.00210         0.00694           Geranyl Acetate         ND         ND         0.00326         0.00694           Cedrol         ND         ND         0.00283         0.00694           [+,N,-]-Camphor         ND         ND         0.00513         0.0208           delta-3-Carene         ND         ND         0.00227         0.00694           alpha-Terpinene         ND         ND         0.00213         0.00694           gamma-Terpinene         ND         ND         0.00157         0.00694	Isoborneol	ND	ND	0.00149	0.00694
Geranyl Acetate         ND         ND         0.00326         0.00694           Cedrol         ND         ND         0.00283         0.00694           [+,N,-]-Camphor         ND         ND         0.00513         0.0208           delta-3-Carene         ND         ND         0.00227         0.00694           alpha-Terpinene         ND         ND         0.00213         0.00694           gamma-Terpinene         ND         ND         0.00157         0.00694	Menthol	ND	ND	0.00232	0.00694
Cedrol         ND         ND         0.00283         0.00694           [+,N,-]-Camphor         ND         ND         0.00513         0.0208           delta-3-Carene         ND         ND         0.00227         0.00694           alpha-Terpinene         ND         ND         0.00213         0.00694           gamma-Terpinene         ND         ND         0.00157         0.00694	alpha-Cedrene	ND	ND	0.00210	0.00694
[+,N,-]-Camphor         ND         ND         0.00513         0.0208           delta-3-Carene         ND         ND         0.00227         0.00694           alpha-Terpinene         ND         ND         0.00213         0.00694           gamma-Terpinene         ND         ND         0.00157         0.00694	Geranyl Acetate	ND	ND	0.00326	0.00694
delta-3-Carene         ND         ND         0.00227         0.00694           alpha-Terpinene         ND         ND         0.00213         0.00694           gamma-Terpinene         ND         ND         0.00157         0.00694	Cedrol	ND	ND	0.00283	0.00694
alpha-Terpinene         ND         ND         0.00213         0.00694           gamma-Terpinene         ND         ND         0.00157         0.00694	[+,N,-]-Camphor	ND	ND	0.00513	0.0208
gamma-Terpinene ND ND 0.00157 0.00694	delta-3-Carene	ND	ND	0.00227	0.00694
gamma-Terpinene ND ND 0.00157 0.00694	alpha-Terpinene	ND	ND	0.00213	0.00694
Total Terpenes 1.38 13.8	gamma-Terpinene	ND	ND	0.00157	0.00694
	Total Terpenes	1.38	13.8		

## **Heavy Metals**



Date Started: 12/11/2024 **Instrument: ICP-MS** 

**Date Completed: 12/11/2024** Method: TP-09.007.01

Analyst: Meagan Mattos

Deviation: N/A

<b>Heavy Metals</b>	Result (ppb)	LOD (ppb)	LOQ (ppb)	Limit (ppb)	Status
Arsenic	ND	10.7	72.6	200	Pass
Cadmium	ND	6.45	72.6	200	Pass
Lead	ND	5.92	72.6	500	Pass
Mercury	ND	5.17	36.3	100	Pass

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Phone: 508-295-2550

## **Certificate of Analysis**

## **Microbial Impurities**



PASS

Date Started: 12/10/2024Date Completed: 12/13/2024Analyst: Meagan MattosInstrument: 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	ND	10000	Pass	
Aerobic Bacteria	ND	100000	Pass	
E.coli	ND		Pass	
Salmonella	ND		Pass	

## **Pesticides and Mycotoxins**



**PASS** 

Date Started: 12/11/2024Date Completed: 12/12/2024Analyst: Lana RiveraInstrument: 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	0.611	3.69	10.0	Pass
Bifenthrin	ND	1.30	3.69	10.0	Pass
Cyfluthrin	ND	0.490	3.08	10.0	Pass
Etoxazole	ND	0.897	3.69	10.0	Pass
Imazalil	ND	0.921	3.69	10.0	Pass
Imidacloprid	ND	0.431	3.69	10.0	Pass
Myclobutanil	ND	1.01	3.69	10.0	Pass
Spiromesifen	ND	1.08	3.69	10.0	Pass
Trifloxystrobin	ND	0.569	3.69	10.0	Pass
Aflatoxin B1	ND	2.00	4.93		
Aflatoxin B2	ND	0.397	3.69		
Aflatoxin G1	ND	0.411	3.69		
Aflatoxin G2	ND	1.04	4.93		
Ochratoxin A	ND	1.14	3.69		
Total Mycotoxins	ND	0.397	3.69	20.0	Pass

Eric Steele, Lab Director 12/13/2024

**END OF REPORT** 

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