

# Certificate of Analysis



**Customer:** Bay State Extracts

**Address:**

3065 Cranberry Highway  
 East Wareham MA 02538

**Phone:** 800-847-4427



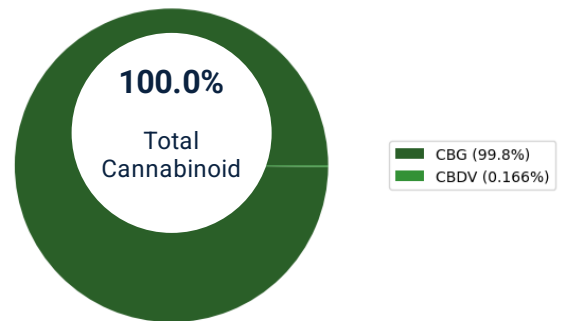
**Sample ID:** 2296  
**Sample Name:** CBG Isolate 25654-31-3  
**Sample Type:** Isolate  
**Received Date:** 09/16/2022  
**Report Date:** 09/22/2022  
**Client Batch ID:** 22259G  
**Client Sample Size:**



## Results Summary

<b>Cannabinoids</b> 09/22/2022	TESTED
<b>Heavy Metals</b> 09/19/2022	✓ PASS
<b>Microbial Impurities</b> 09/22/2022	✓ PASS
<b>Residual Solvents</b> 09/22/2022	✓ PASS
<b>Mycotoxins</b> 09/22/2022	✓ PASS
<b>Pesticides</b> 09/22/2022	✓ PASS

## Cannabinoid Distribution (%)



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Cannabinoids

Date Started: 09/19/2022 Date Completed: 09/22/2022 Analyst: Yuemin Wang Kovaleff
Instrument: UPLC-PDA Method: TP-09.001.03 & TP-09.012.02 Deviation: N/A

Table with 4 columns: Cannabinoid, Result (%), Result (mg/g), LOQ (%). Lists various cannabinoids like CBG, CBDV, CBDA, etc., with their respective results and limits.

Total THC = Δ9-THC + Δ8-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.

Heavy Metals

PASS

Date Started: 09/19/2022 Date Completed: 09/19/2022 Analyst: Lana Rivera
Instrument: ICP-MS Method: TP-09.007.01 Deviation: N/A

Table with 4 columns: Heavy Metals, LOQ (ppb), Limit (ppb), Status. Lists Arsenic, Cadmium, Lead, Mercury with their LOQ, limits, and pass status.

Microbial Impurities

PASS

Date Started: 09/19/2022 Date Completed: 09/22/2022 Analyst: Elliot Henderson
Instrument: TEMPO & Gene-Up Method: TP-09.010.01 & TP-09.011.01 Deviation: N/A

Table with 3 columns: Microbials, Limit (CFU/g), Status. Lists Coliforms, Bile-Tolerant Gram-Negative Bacteria, Yeast & Mold, Aerobic Bacteria, E.coli, Salmonella with their limits and pass status.

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## Residual Solvents

✓ PASS

**Date Started:** 09/19/2022 | **Date Completed:** 09/22/2022 | **Analyst:** Yuemin Wang Kovaleff  
**Instrument:** HS-GC-MS | **Method:** TP-09.005.03 | **Deviation:** N/A

Residual Solvent	LOQ (ppm)	Limit (ppm)	Status
Ethanol	90.1	5000	Pass
n-Butane	1.50	12.0	Pass
n-Propane	1.50	12.0	Pass
Iso-butane	1.50	12.0	Pass
Methanol	90.1	3000	Pass
n-Pentane	90.1	5000	Pass
Ethyl Ether	90.1	5000	Pass
Acetone	90.1	5000	Pass
Isopropyl Alcohol	90.1	5000	Pass
Acetonitrile	90.1	410	Pass
n-Hexane	90.1	290	Pass
Ethyl Acetate	90.1	5000	Pass
n-Heptane	90.1	5000	Pass
Toluene	90.1	890	Pass
<b>Total Xylenes</b>	<b>45.1</b>	<b>2170</b>	<b>Pass</b>

## Mycotoxins

✓ PASS

**Date Started:** 09/19/2022 | **Date Completed:** 09/22/2022 | **Analyst:** Yuemin Wang Kovaleff  
**Instrument:** LC-MS/MS | **Method:** TP-09.009.01 | **Deviation:** N/A

Mycotoxins	LOQ (ppb)	Limit (ppb)	Status
Aflatoxin B1	4.86		
Aflatoxin B2	3.65		
Aflatoxin G1	3.65		
Aflatoxin G2	4.86		
Ochratoxin A	3.65		
<b>Total Mycotoxins</b>	<b>3.65</b>	<b>20.0</b>	<b>Pass</b>

## Pesticides

✓ PASS

**Date Started:** 09/19/2022 | **Date Completed:** 09/22/2022 | **Analyst:** Yuemin Wang Kovaleff  
**Instrument:** LC-MS/MS & GC-MS/MS | **Method:** TP-09.008.01 & TP-09.009.01 | **Deviation:** N/A

Pesticide	LOQ (ppb)	Limit (ppb)	Status
Bifenazate	3.65	10.0	Pass
Bifenthrin	3.65	10.0	Pass
Cyfluthrin	3.04	10.0	Pass
Etoxazole	3.65	10.0	Pass
Imazalil	3.65	10.0	Pass
Imidacloprid	3.65	10.0	Pass
Myclobutanil	3.65	10.0	Pass
Spiromesifen	3.65	10.0	Pass
Trifloxystrobin	3.65	10.0	Pass

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Eric Steele, Lab Director  
09/22/2022

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END OF REPORT

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