

2022

**TESTING
SERVICES
TRICHOME
ANALYTICAL**

FULL PANEL

A full panel analysis modeled after California cannabis regulatory testing limits and analytes, ensuring quality hemp products by meeting stringent testing requirements. For extracts and some infused products, we recommend adding on residual solvent testing.

1. Cannabinoids
2. Metals
3. Pesticides & Mycotoxins 2
4. Total Yeast & Mold
5. Shiga toxin-producing E. Coli
6. Salmonella spp.
7. Aspergillus (flavus, fumigatus, niger, terreus)
8. Foreign Materials
9. Moisture Content (plant only)
10. Water Activity (plant, semi-solid, and solid infused products)

Recommended Add-ons:

- + Terpenes
- + Residual Solvents
- + Homogeneity

PROFILE PANEL

Cannabinoid potency and terpene analysis includes 15 cannabinoids and 36 terpenes for a unique 51 compound profile.

- | | | |
|------------------|------------------------|-------------------------|
| 1. CBDVa | 18. Sabinene | 35. Menthol |
| 2. CBDV | 19. beta-Myrcene | 36. Borneol |
| 3. CBDa | 20. beta-Pinene | 37. Terpeneol |
| 4. CBGa | 21. alpha-Phellandrene | 38. Nerol |
| 5. CBG | 22. 3-Carene | 39. Geraniol |
| 6. CBD | 23. alpha-Terpinene | 40. Pulegone |
| 7. THCV | 24. D-Limonene | 41. Geranyl acetate |
| 8. THCVa | 25. Eucalyptol | 42. alpha-Cedrene |
| 9. CBN | 26. gamma-Terpinene | 43. Caryophyllene |
| 10. Δ9-THC | 27. Terpinolene | 44. alpha-Humulene |
| 11. Δ8-THC | 28. Sabinene hydrate | 45. Valencene |
| 12. CBL | 29. Linalool | 46. Nerolidol |
| 13. CBC | 30. Fenchone | 47. Guaiol |
| 14. THCa | 31. Fenchyl alcohol | 48. Cedrol |
| 15. CBCa | 32. Isopulegol | 49. alpha-Bisabolol |
| 16. alpha-Pinene | 33. Camphor | 50. Ocimene |
| 17. Camphene | 34. Isoborneol | 51. Caryophyllene Oxide |

NY CHP COMPLIANCE PANEL

New York Cannabinoid Hemp Program Compliance Panel - meets the requirements of 10 NYCRR §1005 issued by the Cannabinoid Hemp Program.

1. Cannabinoids
2. Metals
3. Pesticides & Mycotoxins 2
4. Residual Solvents
5. Total Yeast & Mold
6. Total Aerobic Bacteria Count
7. Shiga toxin-producing E. Coli
8. Salmonella spp.

Recommended Add-ons:

+ Terpenes

NJMMP QUALITY ASSURANCE PANEL

New Jersey Medical Cannabis Quality Assurance Panel - meets the requirements of N.J.S.A. 24:61-19 (CRC Resolution 2021-9) issued by the New Jersey Cannabis Regulatory Commission. Note: for compliance, batch release testing, the sample must be collected by the laboratory.

Plant Material	Concentrate & Infused Non-Edible	Infused Edible
1. Cannabinoids	1. Cannabinoids	1. Cannabinoids
2. Terpenes	2. Terpenes	2. Metals
3. Metals	3. Metals	3. Mycotoxins
4. Pesticides & Myco. 1	4. Pesticides & Myco. 1	4. STEC
5. Total Yeast & Mold	5. Residual Solvents	5. Total Coliform
6. Aerobic Count	6. Total Yeast & Mold	6. L. monocytogenes
7. E. Coli	7. Aerobic Count	7. Salmonella spp.
8. Salmonella spp.	8. E. Coli	8. Water Activity
9. Water Activity	9. Salmonella spp.	9. Foreign Matter
10. Moisture Content	10. Vitamin E Acetate*	
11. Foreign Matter		

*inhalable concentrates only

CANNABINOID POTENCY

USDA Compliant 15 Cannabinoid Potency Testing. Includes dry weight percent, uncertainty measurements, and THC Pass/Fail value for flower. Reports in weight percent and mg/g. For infused products - we can also report mg/unit, mg/serving, and/or mg/mL if provided the net weight and volume or density of the product.

- | | | |
|----------|------------|------------|
| 1. CBDVa | 6. CBD | 11. Δ8-THC |
| 2. CBDV | 7. THCV | 12. CBL |
| 3. CBDa | 8. THCVa | 13. CBC |
| 4. CBGa | 9. CBN | 14. THCa |
| 5. CBG | 10. Δ9-THC | 15. CBCa |

TERPENE PROFILE

Extensive 36 compound terpene profile includes both major and minor terpenes typically found in cannabis. Reports in weight percent and mg/g.

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|-----------------------|----------------------|-------------------------|
| 1. alpha-Pinene | 13. Sabinene hydrate | 25. Pulegone |
| 2. Camphene | 14. Linalool | 26. Geranyl acetate |
| 3. Sabinene | 15. Fenchone | 27. alpha-Cedrene |
| 4. beta-Myrcene | 16. Fenchyl alcohol | 28. Caryophyllene |
| 5. beta-Pinene | 17. Isopulegol | 29. alpha-Humulene |
| 6. alpha-Phellandrene | 18. Camphor | 30. Valencene |
| 7. 3-Carene | 19. Isoborneol | 31. Nerolidol |
| 8. alpha-Terpinene | 20. Menthol | 32. Guaiol |
| 9. D-Limonene | 21. Borneol | 33. Cedrol |
| 10. Eucalyptol | 22. Terpeneol | 34. alpha-Bisabolol |
| 11. gamma-Terpinene | 23. Nerol | 35. Ocimene |
| 12. Terpinolene | 24. Geraniol | 36. Caryophyllene Oxide |

METALS

Measures the amount of heavy and essential metal/metalloids present in the product in ug/g (ppm).

- | | | |
|-------------|--------------|--------------|
| 1. Arsenic | 5. Iron | 9. Lead |
| 2. Cadmium | 6. Mercury | 10. Antimony |
| 3. Chromium | 7. Manganese | 11. Selenium |
| 4. Copper | 8. Nickel | 12. Zinc |

RESIDUAL SOLVENTS

Determines potential byproduct contamination from the extraction process. 21 common Class I, Class II, and Class III solvents are quantified. Reports in ug/g (ppm).

1. 1,1-Dichloroethene	8. Ethanol	15. Methylene chloride
2. 1,2-Dichloroethane	9. Ethyl acetate	16. n-Hexane
3. Acetone	10. Ethyl ether	17. Pentane
4. Acetonitrile	11. Ethylene oxide	18. Propane
5. Benzene	12. Heptane	19. Toluene
6. Butane	13. Isopropyl alcohol	20. Trichloroethylene
7. Chloroform	14. Methanol	21. Xylenes

PESTICIDES & MYCOTOXINS 1

Covers NJMMP required pesticides for a total of 48 pesticides quantified, as well as Aflatoxin B1, B2, G1, G2, and Ochratoxin A. Reports in ug/g (ppm).

1. Abamectin	17. Dichlorvos	33. Methomyl
2. Acetamiprid	18. Dimethomorph	34. Myclobutanil
3. Aldicarb	19. Ethephon	35. Naled
4. Ancyimidol	20. Etoxazole	36. Oxamyl
5. Azoxystrobin	21. Fenpyroximate	37. Paclbutrazol
6. Bifenazate	22. Fipronil	38. Permethrins
7. Bifenthrin	23. Flonicamid	39. Phosmet
8. Boscalid	24. Fludioxonil	40. Piperonyl Butoxide
9. Carbaryl	25. Flurprimidol	41. Propiconazole
10. Carbofuran	26. Hexythiazox	42. Pyrethrins
11. Chlorantraniliprole	27. Imazalil	43. Spinosad
12. Chlorpyrifos	28. Imidacloprid	44. Spiromesifen
13. Clofentezine	29. Kresoxim-Methyl	45. Spirotetramat
14. Cyfluthrin	30. Malathion	46. Thiocloprid
15. Daminozide	31. Metalaxyl	47. Thiamethoxam
16. Diazinon	32. Methiocarb	48. Trifloxystrobin

PESTICIDES & MYCOTOXINS 2

Covers various state high- and low-THC cannabis pesticide lists including NY CHP, Florida, California, Colorado, and Michigan for a total of 68 pesticides quantified, as well as Aflatoxin B1, B2, G1, G2, and Ochratoxin A. Reports in ug/g (ppm).

1. Abamectin	6. Azoxystrobin	11. Carbaryl
2. Acephate	7. Bifenazate	12. Carbofuran
3. Acequinocyl	8. Bifenthrin	13. Chlorantraniliprole
4. Acetamiprid	9. Boscalid	14. Chlordane
5. Aldicarb	10. Captan	15. Chlorfenapyr

16. Chlormequat Chloride	34. Flonicamid	52. Permethrins
17. Chlorpyrifos	35. Fludioxonil	53. Phosmet
18. Clofentezine	36. Hexythiazox	54. Piperonyl Butoxide
19. Coumaphos	37. Imazalil	55. Prallethrin
20. Cyfluthrin	38. Imidacloprid	56. Propiconazole
21. Cypermethrin	39. Kresoxim-Methyl	57. Propoxur
22. Daminozide	40. Malathion	58. Pyrethrins
23. Diazinon	41. Metalaxyl	59. Pyridaben
24. Dichlorvos	42. Methiocarb	60. Spinetoram
25. Dimethoate	43. Methomyl	61. Spinosad
26. Dimethomorph	44. Methyl parathion	62. Spiromesifen
27. Ethoprophos	45. Mevinphos	63. Spirotetramat
28. Etofenprox	46. MGK 264	64. Spiroxamine
29. Etoxazole	47. Myclobutanil	65. Tebuconazole
30. Fenhexamid	48. Naled	66. Thiacloprid
31. Fenoxycarb	49. Oxamyl	67. Thiamethoxam
32. Fenpyroximate	50. Paclobutrazol	68. Trifloxystrobin
33. Fipronil	51. Pentachloronitrobenzene	

VITAMIN E ACETATE

Measures the amount of vitamin E acetate present in inhalable concentrates. Reports in weight percent.

MICROBES: QUALITY INDICATORS

Measures microbial contamination by MPN and/or plating. Reports in presence/absence or CFU/g. Available individually or as a part of packaged analyses.

1. Total Yeast & Mold Count
2. Total Aerobic Bacteria Count
3. Total Enterobacteriaceae Count
4. Total Coliform Count
5. E. Coli (Presence/Absence)

MICROBES: PATHOGENS

Measures microbial contamination by qPCR. Reports in presence/absence. Available individually or as a part of packaged analyses.

1. Shiga toxin-producing E. Coli (STEC)
2. Salmonella spp.
3. Aspergillus (flavus, fumigatus, niger, terreus)
4. Listeria monocytogenes
5. Listeria spp.

MOISTURE CONTENT

Determines the moisture content after curing on post-harvest plant material. Reports in percent moisture.

WATER ACTIVITY

The measure of free water in the product. Indicates potential for microbial growth. Reports in aw.

FOREIGN MATTER

Determines contaminants (soil, bugs, mold, etc.) via microscopy. Pass/fail reported.

HOMOGENEITY

Determines consistency and labeling accuracy of cannabinoids per serving for a production batch of infused products. If your product is 1 serving per unit, we will need 4 units, if the product contains multiple servings per unit, we will need 2 units. Includes cannabinoid potency analysis. Reports in pass/fail for accuracy and pass/fail for variability.

RUSH TURNAROUND

30% upcharge for 1-day turnaround on cannabinoid potency, 2-day turnaround for chemical analyses, and a 3-day turnaround for microbial analysis.

DRYING

Laboratory drying for pre-harvest samples.

SAMPLE PICKUPS

Servicing New Jersey and Eastern Pennsylvania. Complimentary pick up offered for bulk orders. Contact us for a quote with your pickup location and sample quantity.

SAMPLING

Compliance sampling available for NJ high-THC cannabis license holders. We are also licensed for USDA compliant pre-harvest sampling for some USDA-approved state programs. Contact us for eligibility and quote.

ENVIRONMENTAL TESTING

Contact us for a quote.