

Cannabis Standards



AccuStandard[®]

Cannabis Standards

AccuStandard offers a comprehensive list of standards for testing the quality and safety of cannabis and hemp products for both medicinal and recreational purposes. Standards for testing include: pesticides, residual solvents, terpenes (for strain and flavor profiling), heavy metals, and active cannabinoid compounds. US State specific cannabis standards, including regulatory standards for Canada.



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<https://www.accustandard.com/cannabis-standards>



Cannabinoids

| Compound | CAS | TK No. | Conc. | Matrix | Cat. No. | Unit |
|------------------------------------------------|------------|---------|------------|---------|---------------|------|
| Cannabidiol (CBD) | 13956-29-1 | 114-005 | 1000 µg/mL | PT MeOH | CP-CBD-01S | 1 mL |
| Cannabinol (CBN) | 521-35-7 | 114-008 | 1000 µg/mL | PT MeOH | CP-CBN-01S | 1 mL |
| Delta-8-Tetrahydrocannabinol (THC-8) | 5957-75-5 | 114-001 | 1000 µg/mL | PT MeOH | CP-8-THC-01S | 1 mL |
| Delta-9-Tetrahydrocannabinol (THC-9) | 1972-08-3 | 114-002 | 1000 µg/mL | PT MeOH | CP-9-THC-01S | 1 mL |
| Delta-9-Tetrahydrocannabinolic acid A (THCA-A) | 23978-85-0 | 114-010 | 1000 µg/mL | ACN | CP-THCA-A-01S | 1 mL |
| Cannabigerol (CBG) | 25654-31-3 | 114-009 | 1000 µg/mL | PT MeOH | CP-CBG-01S | 1 mL |
| Cannabichromene (CBC) | 20675-51-8 | 114-004 | 1000 µg/mL | PT MeOH | CP-CBC-01S | 1 mL |

Cannabinoid Mix Standard

CP-CANNA-MIX-01

1000 µg/mL each in PT Methanol

1 mL
3 comps.

Restrictions may apply, contact us for information.

Cannabidiol (CBD) Cannabinol (CBN) Delta-9-Tetrahydrocannabinol (THC)

Hemp

Different cultivars of cannabis plants are used in various ways. Plants that have been bred to have higher THC content are for medicinal and recreational uses, and those bred to have lower THC levels can be used for hemp production. Hemp is a crop that is harvested for the fibers of the plant and can be used to make clothing, paper, and other products. Currently, USDA regulations stipulate hemp crops must be below 0.3% w/w for total delta-9 tetrahydrocannabinol (considering both THC and THCA) on a dry weight basis of the sample.

| Compound | CAS | TK No. | Conc. | Matrix | Cat. No. | Unit |
|------------------------------------------------|------------|---------|------------|---------|---------------|------|
| Delta-9-Tetrahydrocannabinol (THC-9) | 1972-08-3 | 114-002 | 1000 µg/mL | PT MeOH | CP-9-THC-01S | 1 mL |
| Delta-9-Tetrahydrocannabinolic acid A (THCA-A) | 23978-85-0 | 114-010 | 1000 µg/mL | ACN | CP-THCA-A-01S | 1 mL |

Cannabis Odor

Volatile Sulfur Compounds (VSCs) are a group of chemical compounds that have been evaluated for its possible role in enhancing cannabis products flavor and aroma. These CRMs are designed to help test for traces of VSCs in cannabis to help investigate that role and its potential therapeutic advantages.

3-Mercaptohexyl acetate

CP-ODOR-001S

1 mL

1000 µg/mL in Isopropanol

3-Mercapto-1-hexanol

CP-ODOR-002S

1 mL

1000 µg/mL in Isopropanol

Cannabis Terpenes

| Compound (Each 100 µg/mL in MeOH) | CAS | Cat. No. | Unit | Compound (Each 100 µg/mL in MeOH) | CAS | Cat. No. | Unit |
|-----------------------------------|------------|-------------|------|-----------------------------------|------------|-------------|------|
| (-)-alpha-Bisabolol | 23089-26-1 | CP-TER-001S | 1 mL | Camphor | 76-22-2 | CP-TER-016S | 1 mL |
| (-)-beta-Pinene | 18172-67-3 | CP-TER-002S | 1 mL | 3-Carene | 498-15-7 | CP-TER-017S | 1 mL |
| (-)-Borneol | 464-45-9 | CP-TER-003S | 1 mL | (R)-Limonene | 5989-27-5 | CP-TER-018S | 1 mL |
| (-)-Caryophyllene oxide | 1139-30-6 | CP-TER-004S | 1 mL | gamma-Terpinene | 99-85-4 | CP-TER-019S | 1 mL |
| (-)-Guaiol | 489-86-1 | CP-TER-005S | 1 mL | Geraniol | 106-24-1 | CP-TER-020S | 1 mL |
| (-)-Isopulegol | 89-79-2 | CP-TER-006S | 1 mL | (1R)-(-)-Fenchone | 7787-20-4 | CP-TER-021S | 1 mL |
| (+)-Borneol | 464-43-7 | CP-TER-007S | 1 mL | Linalool | 78-70-6 | CP-TER-022S | 1 mL |
| (+)-Fenchone | 4695-62-9 | CP-TER-008S | 1 mL | Nerolidol | 7212-44-4 | CP-TER-023S | 1 mL |
| Eucalyptol | 470-82-6 | CP-TER-009S | 1 mL | Ocimene | 13877-91-3 | CP-TER-024S | 1 mL |
| alpha-Humulene | 6753-98-6 | CP-TER-010S | 1 mL | p-Cymene | 99-87-6 | CP-TER-025S | 1 mL |
| alpha-Pinene | 80-56-8 | CP-TER-011S | 1 mL | Terpinolene | 586-62-9 | CP-TER-026S | 1 mL |
| alpha-Terpinene | 99-86-5 | CP-TER-012S | 1 mL | Valencene (Tech) | 4630-07-3 | CP-TER-027S | 1 mL |
| beta-Caryophyllene | 87-44-5 | CP-TER-013S | 1 mL | Terpineol | 8000-41-7 | CP-TER-028S | 1 mL |
| beta-Myrcene | 123-35-3 | CP-TER-014S | 1 mL | Farnesene (mixture of isomers) | | CP-TER-029S | 1 mL |
| Camphene | 79-92-5 | CP-TER-015S | 1 mL | | | | |

Cannabis Terpene Mix 1

CP-TER-MIX-001

1 mL

100 µg/mL each in PT Methanol

14 comps.

Cannabis Terpene Mix 2

CP-TER-MIX-002

1 mL

100 µg/mL each in PT Methanol

14 comps.

Cannabis Terpene Mix 3

CP-TER-MIX-003

1 mL

2500 µg/mL each in Isopropanol

19 comps.

(-)-alpha-Bisabolol Camphene
 (-)-Caryophyllene oxide Camphor
 (-)-Isopulegol Linalool
 (+)-Fenchone Nerolidol
 Eucalyptol Ocimene
 beta-Caryophyllene Valencene (Tech)
 beta-Myrcene 3-Carene

beta-Pinene (R)-Limonene
 (-)-Guaiol gamma-Terpinene
 (+)-Borneol Geraniol
 (-)-Borneol (1R)-(-)-Fenchone
 alpha-Humulene p-Cymene
 alpha-Pinene Terpinolene
 alpha-Terpinene Terpineol

Myrcene Camphene
 p-Isopropyltoluene Geraniol
 D-L-a-Pinene R-Limonene
 alpha-Humulene Linalool
 Nerolidol Terpinolene
 (-)-Isopulegol (-)-alpha-Bisabolol
 Ocimene alpha-Terpinene
 (-)-Guaiol beta-Caryophyllene
 gamma-Terpinene delta-3-Carene
 L-b-Pinene

Cannabis Terpene Set

CP-TER-MIX-SET

2 x 1 mL

CP-TER-MIX-001, CP-TER-MIX-002

ASTM Proposed Method for Terpenoids

Terpenoids in Cannabis Standard

ASTM-P-0151-01

2500 µg/mL each in Isopropanol

1 mL

21 comps.

(-)-alpha-Bisabolol p-Isopropyltoluene alpha-Humulene MyrcenL L-b-Pinene
 Camphene Eucalyptol (-)-Isopulegol Nerolidol alpha-Terpinene
 delta-3-Carene Geraniol R-Limonene Ocimene Terpinolene
 beta-Caryophyllene (-)-Guaiol Linalool D-L-a-Pinene gamma-Terpinene
 (-)-Caryophyllene oxide

Terpenoids in Cannabis Internal Standard

ASTM-P-0151-01-IS

ASTM-P-0151-01-IS-PAK

1000 µg/mL in Isopropanol

1 mL

5 x 1 mL

(±)-Linalool-d₃

ASTM D8399 Pesticides in Cannabis

D8399 Pesticides in Cannabis

Mix 1

D-8399-01 **1 mL**
 100 µg/mL each in Acetonitrile 12 comps.

| | |
|--------------|---------------|
| Abamectin | Malathion |
| Azoxystrobin | Myclobutanil |
| Bifenazate | Permethrin |
| Etoxazole | Spinosad |
| Imazalil | Spirotetramat |
| Imidacloprid | Tebuconazol |

D8399 Pesticides in Cannabis

Mix 2

D-8399-02 **1 mL**
 100 µg/mL each in Acetonitrile 19 comps.

| | |
|---------------------|-----------------|
| Acetamiprid | Kresoxim-methyl |
| Boscalid | Metalaxyl |
| Carbaryl | Methomyl |
| Chlorantraniliprole | Oxamyl |
| Clofentezine | Propiconazole |
| Dimethomorph | Pyridaben |
| Fenpyroximate | Spinetoram |
| Fonicamid | Thiamethoxam |
| Fludioxonil | Trifloxystrobin |
| Hexythiazox | |

D8399 Pesticides in Cannabis

Mix 3

D-8399-03 **1 mL**
 100 µg/mL each in Acetonitrile 26 comps.

| | |
|---------------|--------------------|
| Aldicarb | Thiacloprid |
| Carbofuran | Acephate |
| Chlorpyrifos | Acequinocyl |
| Daminozide | Azadirachtin |
| Dimethoate | Benzovindiflupyr |
| Ethoprop | Bifenthrin |
| Etofenprox | Diazinon |
| Fenoxycarb | Dodemorph acetate |
| Fipronil | Naled |
| Methiocarb | Imidan |
| Paclotubrazol | Piperonyl butoxide |
| Propoxur | Prallethrin |
| Spiroxamine | Pyrethrins |

Spirodiclofen

P-938S-CN **1 mL**
 100 µg/mL each in Acetonitrile

Spiromesifen

P-960S-CN **1 mL**
 100 µg/mL each in Acetonitrile

D8399 Pesticides in Cannabis

Mix 4

D-8399-04 **1 mL**
 100 µg/mL in Acetonitrile 26 comps.

| | |
|------------------|---------------------|
| Allethrin | Iprodione |
| Buprofezin | Methoprene |
| Clothianidin | Mevinphos |
| Coumaphos | Novaluron |
| Cyantraniliprole | Sumithrin |
| Cyprodinil | Pirimicarb |
| Deltamethrin | Pyraclostrobin |
| Dichlorvos | Resmethrin |
| Dinotefuran | Tebufenozide |
| Fensulfothion | Teflubenzuron |
| Fenthion | Tetrachlorvinphos Z |
| Fenvalerate | Tetramethrin |
| Fluopyram | Thiophanate-methyl |

ASTM D8399 Pesticides in Cannabis Set

D-8399-SET **6 x 1 mL**
 D-8399-01, D-8399-02, D-8399-03, D-8399-04,
 P-938S-CN, P-960S-CN

ASTM Pesticides in Dried Cannabis

Pesticides in Dried Cannabis Standard

ASTM-CP-PEST **1 mL**
 100 µg/mL each in Acetonitrile 17 comps.

| | |
|------------------------|-------------------------|
| Chlorfenapyr | Terrazole |
| Chlorpyrifos (Dursban) | Fenthion |
| Cyfluthrin | Fenvalerate |
| Cypermethrin | Kinoprene |
| Diazinon | MGK-264 |
| Endosulfan I | Parathion-methyl |
| Endosulfan II | Permethrin |
| Endosulfan sulfate | Pentachloronitrobenzene |
| Etofenprox | |



California Cannabis Residual Pesticides

California Category I Residual Pesticide Mix 1

CP-CA-01 **1 mL**
100 µg/mL each in Acetonitrile 20 comps.

| | | |
|--------------|--------------|------------------|
| Daminozide | Dimethoate | Methiocarb |
| Aldicarb | Chlorpyrifos | Mevinphos |
| Propoxur | Ethoprop | Paclbutrazol |
| Carbofuran | Etofenprox | Parathion-methyl |
| Chlorfenapyr | Fenoxycarb | Spiroxamine |
| Coumaphos | Fipronil | Thiacloprid |
| Dichlorvos | Imazalil | |

California Category II Residual Pesticide (Chlordane tech)

CP-CA-02 **1 mL**
100 µg/mL in Methanol
Chlordane (tech)

California Category III Residual Pesticide Mix 3

CP-CA-03 **1 mL**
100 µg/mL each in Acetonitrile 29 comps.

| | | |
|---------------------|-----------------|-----------------|
| Acetamiprid | Fenpyroximate | Oxamyl |
| Azoxystrobin | Flonicamid | Pyridaben |
| Bifenazate | Fludioxonil | Spinetoram |
| Boscalid | Etoazole | Spinosad |
| Captan | Hexythiazox | Spirotetramat |
| Carbaryl | Imidacloprid | Tebuconazol |
| Chlorantraniliprole | Kresoxim-methyl | Thiamethoxam |
| Clofentezine | Metalaxyl | Propiconazole |
| Dimethomorph | Methomyl | Trifloxystrobin |
| Fenhexamid | Myclobutanil | |

California Category IV Residual Pesticide Mix 4

CP-CA-04 **1 mL**
100 µg/mL each in Acetonitrile 16 comps.

| | | |
|--------------|--------------------------|--------------------|
| Abamectin | Diazinon | Permethrin |
| Acequinocyl | Imidan | Piperonyl butoxide |
| Acephate | Malathion | Prallethrin |
| Bifenthrin | Naled | Pyrethrins |
| Cyfluthrin | Pentachloro-nitrobenzene | Spiromesifen |
| Cypermethrin | | |

California Cannabis Residual Solvents

California Category I Residual Solvent Mix

CP-CA-RS-01 **1 mL**
5000 µg/mL each in PT Methanol 5 comps.

| | | |
|--------------------|-----------------|-----------------|
| 1,2-Dichloroethane | Chloroform | Trichloroethene |
| Benzene | Dichloromethane | |

California Category II Residual Solvent

CP-CA-RS-02 * **1 mL**
5000 µg/mL in Water
Ethylene oxide

California Category III Residual Solvent Mix

CP-CA-RS-03 **1 mL**
5000 µg/mL each in Water 7 comps.

| | | |
|--------------|---------------|----------------|
| Acetone | Ethyl acetate | Isopropanol |
| Acetonitrile | Diethyl ether | Methyl alcohol |
| Ethanol | | |

* ColdPack required to maintain integrity of product.

California Cannabis Residual Solvents (continued)

California Category IV Residual Solvent Mix

CP-CA-RS-04 **1 mL**
5000 µg/mL each in Ethanol 7 comps.

| | | |
|-------------------|------------------|------------------|
| <i>n</i> -Heptane | Toluene | <i>p</i> -Xylene |
| <i>n</i> -Hexane | <i>o</i> -Xylene | <i>m</i> -Xylene |
| <i>n</i> -Pentane | | |

California Category V Residual Solvent Mix

CP-CA-RS-05 **1 mL**
5000 µg/mL each in Ethanol 2 comps.

| | |
|------------------|-------------------|
| <i>n</i> -Butane | <i>n</i> -Propane |
|------------------|-------------------|

California Residual Solvent Mix

CP-CA-RS-06 **1 mL**
At stated conc. (µg/mL) in DMA 3 comps.

| | | | |
|------------------|------|-------------------|------|
| <i>n</i> -Butane | 5000 | <i>n</i> -Propane | 2000 |
| Ethylene oxide | 600 | | |

California Residual Solvent Mix

CP-CA-RS-07 **1 mL**
1000 µg/mL each in DMA 12 comps.

| | | |
|-------------------|------------------|-------------------|
| <i>n</i> -Pentane | Isopropanol | <i>n</i> -Heptane |
| Ethanol | Acetonitrile | Xylene (total) |
| Diethyl ether | <i>n</i> -Hexane | Toluene |
| Acetone | Ethyl acetate | Methanol |

California Category I Residual Solvent Mix

CP-CA-RS-08 **1 mL**
1000 µg/mL each in DMA 5 comps.

| | | |
|--------------------|-----------------|-----------------|
| 1,2-Dichloroethane | Chloroform | Trichloroethene |
| Benzene | Dichloromethane | |

Colorado Cannabis Residual Pesticides

Colorado Residual Pesticide Set

CP-CO-SET 5 x 1 mL
CP-CO-01-R1, CP-CO-02, CP-CO-03, CP-CO-04, P-960S-CN

Colorado Cannabis Residual Pesticide Mix 1

CP-CO-01-R1 1 mL
100 µg/mL each in Acetonitrile 12 comps.

| | | |
|--------------|--------------|---------------|
| Abamectin | Imazalil | Permethrin |
| Azoxystrobin | Imidacloprid | Spinosad |
| Bifenazate | Malathion | Spirotetramat |
| Etoazole | Myclobutanil | Tebuconazol |

Colorado Cannabis Residual Pesticide Mix 2

CP-CO-02 1 mL
100 µg/mL each in Acetonitrile 36 comps.

| | | |
|------------------|--------------------|--------------------|
| Allethrin | Endosulfan II | Phenothrin |
| Benzovindiflupyr | Endosulfan sulfate | Pirimicarb |
| Buprofezin | Etridiazole | Pyraclostrobin |
| Clothianidin | Fensulfothion | Quintozene |
| Coumaphos | Fenthion | Resmethrin |
| Cyantraniliprole | Fenvalerate | Spinetoram |
| Cyprodinil | Fluopyram | Spirodiclofen |
| Deltamethrin | Iprodione | Tebufenozide |
| Dimethomorph | Kinoprene | Teflubenzuron |
| Dinotefuran | Methoprene | Tetrachlorvinphos |
| Dodemorph | Mevinphos | Tetramethrin |
| Endosulfan I | Novaluron | Thiophanate-methyl |

Colorado Cannabis Residual Pesticide Mix 3

CP-CO-03 1 mL
100 µg/mL each in Acetonitrile 26 comps.

| | | |
|------------------------|-------------------|-------------------|
| Chlorpyrifos (Dursban) | Daminozide (Alar) | Paclbutrazol |
| Dimethoate | Diazinon | Parathion-methyl |
| Acephate | Ethoprop | Imidan |
| Acequinocyl | Etofenprox | Prallethrin |
| Aldicarb | Fenoxycarb | Propoxur (Baygon) |
| Carbofuran | Fipronil | Spiroxamine |
| Chlorfenapyr | Methiocarb | Thiacloprid |
| Cyfluthrin | MGK-264 | Bifenthrin |
| Cypermethrin | Naled | |

Colorado Cannabis Residual Pesticide Mix 4

CP-CO-04 1 mL
100 µg/mL each in Acetonitrile 24 comps.

| | | |
|-----------------|---------------------|-----------------|
| Boscalid | Acetamiprid | Hexythiazox |
| Carbaryl | Atrazine | Kresoxim-methyl |
| L-Cyhalothrin | Chlorantraniliprole | Methomyl |
| Diuron (Karmex) | Clofentezine | Oxamyl |
| Metaxyl | Fenhexamid | Pyridaben |
| Pyriproxyfen | Fenpyroximate | Trifloxystrobin |
| Thiabendazole | Fonicamid | Propiconazole |
| Thiamethoxam | Fludioxonil | Dichlorvos |

Spiromesifen

P-960S-CN 1 mL
100 µg/mL in Acetonitrile

Colorado Cannabis Residual Solvents

Colorado Residual Solvents Mix 1

CP-CO-RS-01 1 mL
2000 µg/mL each in DMA 14 comp

| | | |
|----------------|-----------|----------------|
| Acetone | Benzene | p-Xylene |
| Ethanol | Toluene | m-Xylene |
| n-Heptane | n-Pentane | Methyl alcohol |
| 2-Methylhexane | n-Hexane | Ethyl acetate |
| Isopropanol | o-Xylene | |

Connecticut Cannabis Pesticide Testing

Connecticut Cannabis Pesticide Testing Standard

CP-CT-PEST-01-R1 1 mL
100 µg/mL each in Acetonitrile 13 comps.

| | | |
|-------------|--------------|---------------|
| Abamectin | Etoazole | Paclbutrazol |
| Acequinocyl | Imazalil | Pyrethrins |
| Bifenazate | Imidacloprid | Spinosad |
| Bifenthrin | Myclobutanil | Spirotetramat |
| Cyfluthrin | | |

Spiromesifen

P-960S-CN 1 mL
100 µg/mL in Acetonitrile

Florida Cannabis Pesticides

Florida Cannabis Residual Pesticide Set

CP-FL-SET 5 x 1 mL
CP-FL-01, CP-FL-02, CP-FL-03, CP-FL-4, P-1083S-CN

Florida Cannabis Pesticide Mix 1

CP-FL-01 1 mL
100 µg/mL each in Acetonitrile 29 comps.

| | | |
|-----------------------|-----------------|-----------------|
| Azoxystrobin | Fenhexamid | Myclobutanil |
| Bifenazate | Fenpyroximate | Oxamyl |
| Boscalid | Fonicamid | Propiconazole |
| Captan | Fludioxonil | Pyridaben |
| Carbaryl | Hexythiazox | Spinosad |
| Chlorantraniliprole | Imidacloprid | Spirotetramat |
| Chloromequat chloride | Kresoxim-methyl | Tebuconazol |
| Clofentezine | Metaxyl | Thiamethoxam |
| Dimethomorph | Methomyl | Trifloxystrobin |
| Etoazole | | |

Florida Cannabis Residual Pesticide Mix 2

CP-FL-02 1 mL
100 µg/mL each in Acetonitrile 20 comps.

| | | |
|--------------|------------|------------------|
| Daminozide | Dichlorvos | Methiocarb |
| Aldicarb | Dimethoate | Mevinphos |
| Propoxur | Ethoprop | Paclbutrazol |
| Carbofuran | Etofenprox | Parathion-methyl |
| Chlorfenapyr | Fenoxycarb | Spiroxamine |
| Coumaphos | Fipronil | Thiacloprid |
| Chlorpyrifos | Imazalil | |

Florida Cannabis Residual Pesticide

CP-FL-03 1 mL
100 µg/mL in Methanol
Chlordane (Tech Mix)

Florida Cannabis Residual Pesticide Mix 4

CP-FL-04 1 mL
100 µg/mL each in Acetonitrile 16 comps.

| | | |
|--------------|-------------------------|--------------------|
| Abamectin | Diazinon | Permethrin |
| Acephate | Imidan | Piperonyl butoxide |
| Acequinocyl | Malathion | Prallethrin |
| Bifenthrin | Naled | Pyrethrins |
| Cyfluthrin | Pentachloronitrobenzene | Spiromesifen |
| Cypermethrin | | |

Spinetoram

P-1083S-CN 1 mL
100 µg/mL in Acetonitrile

Maine Cannabis Residual Pesticides

Maine Cannabis Residual Pesticide Set

CP-ME-SET

5 x 1 mL

CP-ME-01, CP-ME-02, P-1077S-CN, P-960S-CN, P-187S-CN

Maine Cannabis Residual Pesticide Mix 1

CP-ME-01

1 mL

100 µg/mL each in Acetonitrile

32 comps.

| | | |
|------------------------|------------------|--------------------|
| Abamectin | Dichlorvos | MGK-264 |
| Acephate | Diazinon | Naled |
| Acequinocyl | Dimethoate | Paclobutrazol |
| Aldicarb | Ethoprop | Permethrin |
| Bifenthrin | Etofenprox | Imidan |
| Carbofuran | Fenoxycarb | Piperonyl butoxide |
| Chlorfenapyr | Fipronil | Prallethrin |
| Chlorpyrifos (Dursban) | Imazalil | Propoxur (Baygon) |
| Cyfluthrin | Malathion | Spiroxamine |
| Cypermethrin | Methiocarb | Thiacloprid |
| Daminozide (Alar) | Parathion-methyl | |

Maine Cannabis Residual Pesticide Mix 2

CP-ME-02

1 mL

100 µg/mL each in Acetonitrile

23 comps.

| | | |
|----------------------|-----------------|---------------------|
| Imidacloprid | Spinosad | Carbaryl |
| Kresoxim-methyl | Tebuconazol | Chlorantraniliprole |
| Metalaxyl | Thiamethoxam | Clofentezine |
| Methomyl | Trifloxystrobin | Etoazole |
| Myclobutanil | Acetamiprid | Fonicamid |
| Oxamyl | Azoxystrobin | Fludioxonil |
| Propiconazole (Tilt) | Bifenazate | Hexythiazox |
| Pyridaben | Boscalid | |

Spirotetramat

P-1077S-CN

1 mL

100 µg/mL each in Acetonitrile

Pyrethrins

P-187S-CN

1 mL

100 µg/mL each in Acetonitrile

Spiromesifen

P-960S-CN

1 mL

100 µg/mL each in Acetonitrile

Maine Cannabis Residual Solvents

Maine Cannabis Residual Solvent Mix 1

CP-ME-RS-01

1 mL

2000 µg/mL each in DMA

19 comps.

| | | |
|---------------|--------------------|-----------------|
| Acetone | Isopropanol | Chloroform |
| Acetonitrile | Methyl alcohol | Dichloromethane |
| Ethanol | n-Pentane | Trichloroethene |
| Ethyl acetate | Toluene | o-Xylene |
| Diethyl ether | 1,2-Dichloroethane | p-Xylene |
| n-Heptane | Benzene | m-Xylene |
| n-Hexane | | |

Maine Cannabis Residual Solvent Mix 2

CP-ME-RS-02

1 mL

At stated conc. (µg/mL) each in DMA

19 comps.

| | | |
|-----------------|----------------------|----------------|
| n-Butane (5000) | Ethylene oxide (600) | Propane (2000) |
|-----------------|----------------------|----------------|

Maryland Cannabis Residual Pesticides

Maryland Cannabis Residual Pesticide Set

CP-MD-SET

3 x 1 mL

CP-MD-01, CP-MD-02, CP-MD-03

Maryland Cannabis Residual Pesticide Mix 1

CP-MD-01

1 mL

100 µg/mL each in Acetonitrile

29 comps.

| | | |
|--------------|-------------------|-----------------|
| Acetamiprid | Clofentezine | Methomyl |
| Daminozide | Etoazole | Myclobutanil |
| Aldicarb | (E)-Fenpyroximate | Oxamyl |
| Ancymidol | Fonicamid | Spinosad |
| Azoxystrobin | Flurprimidol | Spirotetramat |
| Bifenazate | Hexythiazox | Thiacloprid |
| Bonzi | Imidacloprid | Thiamethoxam |
| Boscalid | Kresoxim-methyl | Propiconazole |
| Carbaryl | Metalaxyl | Trifloxystrobin |
| Carbofuran | Methiocarb | |

Maryland Cannabis Residual Pesticide Mix 2

CP-MD-02

1 mL

100 µg/mL each in Acetonitrile

7 comps.

| | | |
|--------------|------------------|--------------------|
| Bifenthrin | cis-Permethrin | Piperonyl butoxide |
| Cyfluthrin | trans-Permethrin | Pyrethrins |
| Cypermethrin | | |

Maryland Cannabis Residual Pesticide Mix 3

CP-MD-03

1 mL

100 µg/mL each in Acetonitrile

8 comps.

| | | |
|------------|--------------|--------------|
| Abamectin | Chlorpyrifos | Malathion |
| Diazinon | Ethephon | Spiromesifen |
| Dimethoate | Imidan | |

Massachusetts Cannabis Residual Pesticides

Massachusetts Cannabis Residual Pesticide Mix

CP-MA-01-R1

1 mL

100 µg/mL each in Acetonitrile

8 comps.

| | | |
|------------|--------------|-----------------|
| Bifenazate | Etoazole | Myclobutanil |
| Bifenthrin | Imazalil | Trifloxystrobin |
| Cyfluthrin | Imidacloprid | |

Michigan Cannabis Residual Pesticides

Michigan Residual Pesticides Set

CP-MI-R1-SET

4 x 1 mL

CP-MI-01, CP-MI-02, CP-MI-03-R1, P-960S-CN

Michigan Residual Pesticides Mix 1

CP-MI-01

1 mL

100 µg/mL each in Acetonitrile

20 comps.

| | | |
|---------------------|-------------------|---------------|
| Abamectin | Daminozide | Methomyl |
| Acequinocyl | Fenoxycarb | Oxamyl |
| Aldicarb | (E)-Fenpyroximate | Propoxur |
| Carbaryl | Flonicamid | Spinosad |
| Carbofuran | Hexythiazox | Spirotetramat |
| Chlorantraniliprole | Imidacloprid | Thiamethoxam |
| Clofentezine | Methiocarb | |

Michigan Residual Pesticides Mix 2

CP-MI-02

1 mL

100 µg/mL each in Acetonitrile

16 comps.

| | | |
|--------------|------------------|-------------|
| Acephate | Chlorpyrifos | Permethrin |
| Bifenthrin | Ethoprop | Phosmet |
| Cyfluthrin | Etofenprox | Prallethrin |
| Cypermethrin | Malathion | Pyrethrins |
| Diazinon | Methyl parathion | |
| Dimethoate | Naled | |

Michigan Residual Pesticides Mix 3

CP-MI-03-R1

1 mL

100 µg/mL each in Acetonitrile

21 comps.

| | | |
|---------------|-----------------|--------------|
| Pyridaben | Boscalid | Fludioxonil |
| Myclobutanil | Etoazole | Chlorfenapyr |
| Paclobutrazol | Bifenazate | Fipronil |
| Dichlorvos | Kresoxim-methyl | MGK-264 |
| Propiconazole | Trifloxystrobin | Thiacloprid |
| Metalaxyl | Acetamiprid | Tebuconazole |
| Imazalil | Azoxystrobin | Spiroxamine |

Spiromesifen

P-960S-CN

1 mL

100 µg/mL in Acetonitrile

New York Cannabis Residual Pesticides

New York Residual Pesticide Set

CP-NY-R1-SET

7 x 1 mL

CP-NY-01, CP-NY-02, CP-NY-03, CP-NY-04,
P-017S-CN, P-1083S-CN, P-1499S-CN

New York Residual Pesticide Mix 1

CP-NY-01

1 mL

100 µg/mL each in Acetonitrile

29 comps.

| | | |
|-----------------------|-----------------|-----------------|
| Acetamiprid | Etoazole | Myclobutanil |
| Azoxystrobin | Fenhexamid | Oxamyl |
| Bifenazate | Fenpyroximate | Propiconazole |
| Boscalid | Flonicamid | Pyridaben |
| Captan | Fludioxonil | Spinosad |
| Carbaryl | Hexythiazox | Spirotetramat |
| Chlorantraniliprole | Imidacloprid | Tebuconazole |
| Chloromequat chloride | Kresoxim-methyl | Thiamethoxam |
| Clofentezine | Metalaxyl | Trifloxystrobin |
| Dimethomorph | Methomyl | |

New York Residual Pesticide Mix 2

CP-NY-02

1 mL

100 µg/mL each in Acetonitrile

20 comps.

| | | |
|--------------|--------------|------------------|
| Daminozide | Dimethoate | Methiocarb |
| Aldicarb | Chlorpyrifos | Mevinphos |
| Propoxur | Ethoprop | Paclobutrazol |
| Carbofuran | Etofenprox | Parathion-methyl |
| Chlorfenapyr | Fenoxycarb | Spiroxamine |
| Coumaphos | Fipronil | Thiacloprid |
| Dichlorvos | Imazalil | |

New York Residual Pesticide Mix 3

CP-NY-03

1 mL

100 µg/mL each in Acetonitrile

16 comps.

| | | |
|--------------|-------------------------|--------------------|
| Abamectin | Diazinon | Permethrin |
| Acequinocyl | Imidan | Piperonyl butoxide |
| Acephate | Malathion | Prallethrin |
| Bifenthrin | Naled | Pyrethrins |
| Cyfluthrin | Pentachloronitrobenzene | Spiromesifen |
| Cypermethrin | | |

New York Residual Pesticide Mix 4

CP-NY-04

1 mL

100 µg/mL each in Acetonitrile

2 comps.

| | |
|---------|----------------------|
| MGK-264 | 3-Indolebuttruc acid |
|---------|----------------------|

Chlordane (Tech Mix)

P-017S-CN

1 mL

100 µg/mL in Acetonitrile

Spinetoram

P-1083S-CN

1 mL

100 µg/mL in Acetonitrile

Azadirachtin

P-1499S-CN

1 mL

100 µg/mL in Acetonitrile

Oklahoma Cannabis Residual Pesticides

Oklahoma Residual Pesticides Set

CP-OK-SET

2 x 1 mL
CP-OK-01, P-960S-CN)

Oklahoma Residual Pesticides Set

CP-OK-01

100 µg/mL each in Acetonitrile

1 mL
12 comps.

| | | |
|--------------|--------------|---------------|
| Abamectin | Imazalil | Permethrin |
| Azoxystrobin | Imidacloprid | Spinosad |
| Bifenazate | Malathion | Spirotetramat |
| Etoxazole | Myclobutanil | Tebuconazole |

Spiromesifen

P-960S-CN

100 µg/mL in Acetonitrile

1 mL

Oregon Cannabis Residual Pesticides

Oregon Cannabis Residual Pesticide Set

CP-ORE-R1-SET

4 x 1 mL
CP-ORE-01, CP-ORE-02, CP-ORE-03-R1, P-960S-CN

Oregon Cannabis Residual Pesticide Mix 1

CP-ORE-01

100 µg/mL each in Acetonitrile

1 mL
20 comps.

| | | |
|---------------------|-------------------|---------------|
| Abamectin | Daminozide | Methomyl |
| Acequinocyl | (E)-Fenpyroximate | Oxamyl |
| Aldicarb | Fenoxycarb | Propoxur |
| Carbaryl | Flonicamid | Spinosad |
| Carbofuran | Hexythiazox | Spirotetramat |
| Chlorantraniliprole | Imidacloprid | Thiamethoxam |
| Clofentezine | Methiocarb | |

Oregon Cannabis Residual Pesticide Mix 2

CP-ORE-02

100 µg/mL each in Acetonitrile

1 mL
16 comps.

| | | |
|--------------|------------------|-------------|
| Acephate | Chlorpyrifos | Naled |
| Bifenthrin | Ethoprop | Permethrin |
| Cyfluthrin | Etofenprox | Phosmet |
| Cypermethrin | Malathion | Prallethrin |
| Diazinon | Methyl parathion | Pyrethrins |
| Dimethoate | | |

Oregon Cannabis Residual Pesticide Mix 3

CP-ORE-03-R1

100 µg/mL each in Acetonitrile

1 mL
22 comps.

| | | |
|--------------|-----------------|--------------------|
| Acetamiprid | Fludioxonil | Piperonyl butoxide |
| Azoxystrobin | Imazalil | Propiconazole |
| Bifenazate | Kresoxim-methyl | Pyridaben |
| Boscalid | Metalaxyl | Spiroxamine |
| Chlorfenapyr | MGK-264 | Tebuconazole |
| Dichlorvos | Myclobutanil | Thiacloprid |
| Etoxazole | Paclobutrazol | Trifloxystrobin |
| Fipronil | | |

Spiromesifen

P-960S-CN

100 µg/mL in Acetonitrile

1 mL

Technical Note

The Oregon Health Association (OHA) has classified & submitted three prioritized groupings of residue cannabis pesticides: fungicides, pyrethroids, and organophosphates with 59 targeted compounds, we offer 4 solutions to cover these 59 compounds.

* ColdPack required to maintain integrity of product.

Oregon Cannabis Residual Solvents

Oregon Cannabis Residual Solvent Mix 1

CP-ORE-RS-01

1000 µg/mL each in Water

1 mL
11 comps.

| | | |
|--------------|-----------------|-------------------|
| Acetone | 2-Ethoxyethanol | Isopropyl acetate |
| Acetonitrile | Ethyl acetate | Methanol |
| sec-Butanol | Ethyl ether | Isopropanol |
| 1,4-Dioxane | Ethylene glycol | |

Oregon Cannabis Residual Solvent Mix 2

CP-ORE-RS-02

1000 µg/mL each in Ethanol

1 mL
18 comps.

| | | |
|--------------------|-----------------|-----------------|
| Benzene | n-Heptane | n-Pentane |
| Cumene | Hexane | Tetrahydrofuran |
| Cyclohexane | Ethylbenzene | Toluene |
| Dichloromethane | Isopentane | o-Xylene |
| 2,2-Dimethylbutane | 2-Methylpentane | p-Xylene |
| 2,3-Dimethylbutane | 3-Methylpentane | m-Xylene |

Oregon Cannabis Residual Solvent Mix 3

CP-ORE-RS-03

1000 µg/mL each in Ethanol

1 mL
4 comps.

| | |
|-------------|------------|
| sec-Butanol | Isobutane |
| n-Propane | Neopentane |

Oregon Cannabis Residual Solvent

CP-ORE-RS-04 *

1000 µg/mL in Water

1 mL

Ethylene oxide



Pennsylvania Cannabis Residual Pesticides

Pennsylvania Residual Cannabis Pesticide Mix 1

CP-PA-01-R1

1 mL

100 µg/mL each in Acetonitrile

32 comps.

| | | |
|--------------|------------------|--------------------|
| Abamectin | Dichlorvos | MGK-264 |
| Acephate | Diazinon | Naled |
| Acequinocyl | Dimethoate | Paclobutrazol |
| Aldicarb | Ethoprop | Permethrin |
| Bifenthrin | Etofenprox | Imidan |
| Carbofuran | Fenoxycarb | Piperonyl butoxide |
| Chlorfenapyr | Fipronil | Prallethrin |
| Chlorpyrifos | Imazalil | Propoxur |
| Cyfluthrin | Malathion | Spiroxamine |
| Cypermethrin | Methiocarb | Thiacloprid |
| Daminozide | Parathion-methyl | |

Pennsylvania Residual Cannabis Pesticide Mix 2

CP-PA-02

1 mL

100 µg/mL each in Acetonitrile

29 comps.

| | | |
|---------------------|-----------------|-----------------|
| Acetamiprid | Fenpyroximate | Oxamyl |
| Azoxystrobin | Flonicamid | Pyridaben |
| Bifenazate | Fludioxonil | Spinetoram |
| Boscalid | Etoazole | Spinosad |
| Captan | Hexythiazox | Spirotetramat |
| Carbaryl | Imidacloprid | Tebuconazol |
| Chlorantraniliprole | Kresoxim-methyl | Thiamethoxam |
| Clofentezine | Metalaxyl | Propiconazole |
| Dimethomorph | Methomyl | Trifloxystrobin |
| Fenhexamid | Myclobutanil | |

Washington Cannabis Residual Pesticides

Washington State Residual Pesticides Set

CP-WA-SET

5 x 1 mL

CP-WA-01, CP-WA-02, P-1077S-CN, P-187S-CN, P-960S-CN

Washington Residual Pesticide Mix 1

CP-WA-01

1 mL

100 µg/mL each in Acetonitrile

32 comps.

| | | |
|------------------------|------------------|--------------------|
| Abamectin | Dichlorvos | MGK-264 |
| Acephate | Diazinon | Naled |
| Acequinocyl | Dimethoate | Paclobutrazol |
| Aldicarb | Ethoprop | Permethrin |
| Bifenthrin | Etofenprox | Imidan |
| Carbofuran | Fenoxycarb | Piperonyl butoxide |
| Chlorfenapyr | Fipronil | Prallethrin |
| Chlorpyrifos (Dursban) | Imazalil | Propoxur (Baygon) |
| Cyfluthrin | Malathion | Spiroxamine |
| Cypermethrin | Methiocarb | Thiacloprid |
| Daminozide (Alar) | Parathion-methyl | |

Washington Residual Pesticide Mix 2

CP-WA-02

1 mL

100 µg/mL each in Acetonitrile

24 comps.

| | | |
|---------------------|-------------------|----------------------|
| Tebuconazol | Etoazole | Methomyl |
| Acetamiprid | (E)-Fenpyroximate | Myclobutanil |
| Azoxystrobin | Flonicamid | Oxamyl |
| Bifenazate | Fludioxonil | Propiconazole (Tilt) |
| Boscalid | Hexythiazox | Pyridaben |
| Carbaryl | Imidacloprid | Spinosad |
| Chlorantraniliprole | Kresoxim-methyl | Thiamethoxam |
| Clofentezine | Metalaxyl | Trifloxystrobin |

Spirotetramat

P-1077S-CN

1 mL

100 µg/mL in Acetonitrile

Pyrethrins

P-187S-CN

1 mL

100 µg/mL in Acetonitrile

Spiromesifen

P-960S-CN

1 mL

100 µg/mL in Acetonitrile



Canada Cannabis Regulatory Standards

Canada requires Licensed Producers (LPs) to submit samples of all cultivated cannabis products to independent laboratories for testing of almost 100 pesticides. The Pesticide Management Regulatory Agency (PMRA) has maintained a database that includes 22 registered pesticides for use on cannabis products. Recreational use of cannabis has been legal in Canada since October 2018. Health Canada (HC) maintains mandatory testing requirements for cannabis products to assure a healthy product for the end user. Below is the current published listing of regulated pesticides that have been approved by the Government of Canada, for both recreational and medicinal usage.



Canada Cannabis Pesticides

Canada Cannabis Pesticide Set

CP-CAN-R3-SET **6 x 1 mL**
 CP-CAN-01-R1, CP-CAN-02, CP-CAN-03-R1, CP-CAN-04,
 P-711S-CN, P-960S-CN

Canada Cannabis Pesticide Mix 1

CP-CAN-01-R1 **1 mL**
 100 µg/mL each in Acetonitrile 36 comps.

| | | |
|------------------|--------------------|--------------------|
| Allethrin | Endosulfan II | Phenothrin |
| Benzovindiflupyr | Endosulfan sulfate | Pirimicarb |
| Buprofezin | Etridiazole | Pyraclostrobin |
| Clothianidin | Fensulfothion | Quintozene |
| Coumaphos | Fenthion | Resmethrin |
| Cyantraniliprole | Fenvalerate | Spinetoram |
| Cyprodinil | Fluopyram | Spirodiclofen |
| Deltamethrin | Iprodione | Tebufenozide |
| Dinotefuran | Kinoprene | Teflubenzuron |
| Dimethomorph | Methoprene | Tetrachlorvinphos |
| Dodemorph | Mevinphos | Tetramethrin |
| Endosulfan I | Novaluron | Thiophanate-methyl |

Technical Note

The original Canada Cannabis Pesticide Set has been revised to include Benzovindiflupyr which is a fungicide being monitored by Canada. This added analyte has been added to CP-CAN-01-R1 and is included in the revised Set.

Canada Cannabis Pesticide Mix 2

CP-CAN-02 **1 mL**
 100 µg/mL each in Acetonitrile 20 comps.

| | | |
|---------------------|-------------------|---------------|
| Abamectin | Daminozide | Methomyl |
| Acequinocyl | Fenoxycarb | Oxamyl |
| Carbaryl | (E)-Fenpyroximate | Propoxur |
| Carbofuran | Flonicamid | Spinosad |
| Chlorantraniliprole | Hexythiazox | Spirotetramat |
| Clofentezine | Imidacloprid | Thiamethoxam |
| Clofentezine | Methiocarb | |

Canada Cannabis Pesticide Mix 3

CP-CAN-03-R1 **1 mL**
 100 µg/mL each in Acetonitrile 22 comps.

| | | |
|--------------|-----------------|--------------------|
| Acetamiprid | Fludioxonil | Piperonyl butoxide |
| Azoxystrobin | Imazalil | Pyridaben |
| Bifenazate | Kresoxim-methyl | Spiroxamine |
| Boscalid | Metalaxyl | Tebuconazol |
| Chlorfenapyr | MGK-264 | Thiacloprid |
| Dichlorvos | Myclobutanil | Propiconazole |
| Etoxazole | Paclbutrazol | Trifloxystrobin |
| Fipronil | | |

Canada Cannabis Pesticides (continued)

Canada Cannabis Pesticide Mix 4

CP-CAN-04 **1 mL**
 100 µg/mL each in Acetonitrile 16 comps.

| | | |
|--------------|------------------|-------------|
| Acephate | Chlorpyrifos | Naled |
| Bifenthrin | Ethoprop | Permethrin |
| Cyfluthrin | Etofenprox | Phosmet |
| Cypermethrin | Malathion | Prallethrin |
| Diazinon | Methyl parathion | Pyrethrins |
| Dimethoate | | |

Azadirachtin

P-711S-CN **1 mL**
 100 µg/mL in Acetonitrile

Spiromesifen

P-960S-CN **1 mL**
 100 µg/mL in Acetonitrile

Canada Cannabis Residual Solvents

Canada Cannabis Residual Solvent Mix 1

CP-CAN-RS-01 **1 mL**
 5000 µg/mL each in PT Methanol 24 comps.

| | | |
|---------------|--------------------|---------------------|
| Acetic acid | Ethyl ether | 2-Methyl-1-propanol |
| Anisole | Ethyl formate | MtBE |
| 1-Butanol | Formic acid | Pentane |
| 2-Butanol | Isobutyl acetate | 1-Pentanol |
| Butyl acetate | Isopropyl acetate | 1-Propanol |
| DMSO | Heptane | 2-Propanol |
| Ethanol | Methyl acetate | Propyl acetate |
| Ethyl acetate | 3-Methyl-1-butanol | Triethylamine |

Canada Cannabis Residual Solvent Mix 2

CP-CAN-RS-02 **1 mL**
 5000 µg/mL each in PT Methanol 2 comps.

| | |
|---------|---------------------|
| Acetone | Methyl ethyl ketone |
|---------|---------------------|

Canada Cannabis Residual Solvent Mix 3 (Gases)

CP-CAN-RS-03 **1 mL**
 500 µg/mL each in PT Methanol 3 comps.

| | |
|-----------|---------|
| n-Butane | Propane |
| Isobutane | |

Cannabis Heavy Metal Analysis

Regulations for the testing of heavy metals in cannabis products differ based on state requirements and the route of administration. The standards below can be used for commonly set maximum limits or to provide flexibility to allow calibration over a wide range of concentrations.

Heavy Metal Analysis

| Element | Starting Material | Matrix | 1000 µg/mL Cat. No. | Unit |
|----------------------|------------------------------------------------------|------------------|------------------------|--------|
| Arsenic (As) | As | 2-5% Nitric acid | ICP-03N-1 | 100 mL |
| | | | ICP-03N-5 | 500 mL |
| Cadmium (Cd) | Cd | 2-5% Nitric acid | ICP-08N-1 | 100 mL |
| | | | ICP-08N-5 | 500 mL |
| Chromium (Cr) | Cr(NO ₃) ₃ •9H ₂ O | 2-5% Nitric acid | ICP-13N-R-1 | 100 mL |
| | | | ICP-13N-R-5 | 500 mL |
| Lead (Pb) | Pb(NO ₃) ₂ | 2-5% Nitric acid | ICP-29N-1 | 100 mL |
| | | | ICP-29N-5 | 500 mL |
| Mercury (Hg) | Hg | 10% Nitric acid | ICP-34N-1 | 100 mL |
| | | | ICP-34N-5 | 500 mL |
| Nickel (Ni) | Ni | 2-5% Nitric acid | ICP-37N-1 | 100 mL |
| | | | ICP-37N-5 | 500 mL |
| Thallium (Tl) | TlNO ₃ | 2-5% Nitric acid | ICP-60N-1 | 100 mL |
| | | | ICP-60N-5 | 500 mL |

Cannabis Metals 1

CP-MET-01-1 100 mL
At stated conc. (µg/mL) 4 comps
2-5% Nitric acid

| | |
|--------------|----|
| Arsenic (As) | 15 |
| Cadmium (Cd) | 5 |
| Lead (Pb) | 5 |
| Mercury (Hg) | 30 |

Cannabis Metals 2

CP-MET-02-1 100 mL
At stated conc. (µg/mL) 4 comps
2-5% Nitric acid

| | |
|--------------|----|
| Arsenic (As) | 20 |
| Cadmium (Cd) | 20 |
| Lead (Pb) | 50 |
| Mercury (Hg) | 10 |

Cannabis Metals Low & High Level Calibr. Standards

CP-MET-CAL-LOW-1 100 mL
CP-MET-CAL-HIGH-1 100 mL
At stated conc. (µg/mL) 2-5% Nitric acid 4 comps

| | Low | High |
|--------------|-----|------|
| Arsenic (As) | 10 | 100 |
| Cadmium (Cd) | 10 | 100 |
| Lead (Pb) | 10 | 100 |
| Mercury (Hg) | 10 | 100 |

Cannabis Metals Initial Calibration Verification Standard

CP-MET-VER-1 100 mL
2-5% Nitric acid 26 comps.

| | |
|------------|------------|
| Calcium | 1000 µg/mL |
| Iron | 1000 µg/mL |
| Potassium | 1000 µg/mL |
| Magnesium | 1000 µg/mL |
| Sodium | 1000 µg/mL |
| Strontium | 1000 µg/mL |
| Silver | 10 µg/mL |
| Aluminum | 10 µg/mL |
| Arsenic | 10 µg/mL |
| Barium | 10 µg/mL |
| Beryllium | 10 µg/mL |
| Cadmium | 10 µg/mL |
| Cobalt | 10 µg/mL |
| Chromium | 10 µg/mL |
| Copper | 10 µg/mL |
| Manganese | 10 µg/mL |
| Molybdenum | 10 µg/mL |
| Nickel | 10 µg/mL |
| Lead | 10 µg/mL |
| Antimony | 10 µg/mL |
| Selenium | 10 µg/mL |
| Thallium | 10 µg/mL |
| Vanadium | 10 µg/mL |
| Zinc | 10 µg/mL |
| Thorium | 10 µg/mL |
| Uranium | 10 µg/mL |

Cannabis Metals Environmental Spike Mix

CP-MET-SPIKE-1 100 mL
2-5% Nitric acid, tr HF 24 comps.

| | |
|------------|------------|
| Calcium | 1000 µg/mL |
| Iron | 1000 µg/mL |
| Potassium | 1000 µg/mL |
| Magnesium | 1000 µg/mL |
| Sodium | 1000 µg/mL |
| Silver | 100 µg/mL |
| Aluminum | 100 µg/mL |
| Arsenic | 100 µg/mL |
| Barium | 100 µg/mL |
| Beryllium | 100 µg/mL |
| Cadmium | 100 µg/mL |
| Cobalt | 100 µg/mL |
| Chromium | 100 µg/mL |
| Manganese | 100 µg/mL |
| Molybdenum | 100 µg/mL |
| Lead | 100 µg/mL |
| Antimony | 100 µg/mL |
| Selenium | 100 µg/mL |
| Thallium | 100 µg/mL |
| Vanadium | 100 µg/mL |
| Zinc | 100 µg/mL |
| Uranium | 100 µg/mL |
| Copper | 100 µg/mL |
| Nickel | 100 µg/mL |

Cannabis Metals Environ. Calibration Standard

CP-MET-CAL-1 100 mL
10% Nitric acid 25 comps.

| | |
|------------|------------|
| Calcium | 1000 µg/mL |
| Iron | 1000 µg/mL |
| Potassium | 1000 µg/mL |
| Magnesium | 1000 µg/mL |
| Sodium | 1000 µg/mL |
| Silver | 10 µg/mL |
| Aluminum | 10 µg/mL |
| Arsenic | 10 µg/mL |
| Barium | 10 µg/mL |
| Beryllium | 10 µg/mL |
| Cadmium | 10 µg/mL |
| Cobalt | 10 µg/mL |
| Chromium | 10 µg/mL |
| Copper | 10 µg/mL |
| Manganese | 10 µg/mL |
| Molybdenum | 10 µg/mL |
| Nickel | 10 µg/mL |
| Lead | 10 µg/mL |
| Antimony | 10 µg/mL |
| Selenium | 10 µg/mL |
| Thallium | 10 µg/mL |
| Vanadium | 10 µg/mL |
| Zinc | 10 µg/mL |
| Thorium | 10 µg/mL |
| Uranium | 10 µg/mL |

Cannabis Metals Internal Standard

CP-MET-INTSTD-1 100 mL
Each in 100 µg/mL 8 comps.
10% Nitric acid, tr HCl

| | |
|-----------|----------|
| Lithium-6 | Indium |
| Scandium | Terbium |
| Germanium | Lutetium |
| Rhodium | Bismuth |

Cannabis Metals Tuning Stock Solution

CP-MET-TUNSTOCK-1 100 mL
Each in 10 µg/mL 5 comps.
2-5% Nitric acid

| | |
|---------|----------|
| Lithium | Thallium |
| Yttrium | Cobalt |
| Cerium | |

Cannabis Metals Hg Calibration Solution

CP-MET-HG-0.01X-1 100 mL
10 µg/mL in 5% Nitric acid

Mercury

Cannabis Metals Mercury

CP-MET-HG-1 100 mL
1000 µg/mL in 10% Nitric acid

Mercury

Technical Note

Testing of heavy metals is important because metallic impurities can be absorbed from the soil when the plant grows, or can be introduced during preparation of the saleable product.



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