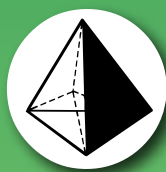


# Cannabis Standards



**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, and the new ASTM D8399 are also available.

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

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# Cannabis Standards

## Cannabinoids

Compound	1,000 µg/mL CAS	Cat. No.	Solvent	Unit
Cannabidiol (CBD)	13956-29-1	CP-CBD-01S	PT MeOH	1 mL
Delta-8-Tetrahydrocannabinol (THC-8)	5957-75-5	CP-8-THC-01S	PT MeOH	1 mL
Delta-9-Tetrahydrocannabinol (THC-9)	1972-08-3	CP-9-THC-01S	PT MeOH	1 mL
Delta-9-Tetrahydrocannabinolic acid A (THCA-A)	23978-85-0	CP-THCA-A-01S	AcCN	1 mL
Cannabigerol (CBG)	25654-31-3	CP-CBG-01S	PT MeOH	1 mL
Cannabichromene (CBC)	20675-51-8	CP-CBC-01S	PT MeOH	1 mL

Restrictions may apply, contact us for information.

## Hemp

Different cultivars of cannabis plants are used in various ways. Plants that have been bred to have higher THC content are used for medicinal and recreational uses. 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.

Independently prepared lots available

Compound	CAS	Cat. No.	1,000 µg/mL Solvent	Unit
Delta-9-Tetrahydrocannabinol (THC-9)	1972-08-3	CP-9-THC-01S	PT MeOH	1 mL
Delta-9-Tetrahydrocannabinolic acid A (THCA-A)	23978-85-0	CP-THCA-A-01S	AcCN	1 mL

## Cannabis Terpenes

### SOLUTIONS at 100 µg/mL in PT Methanol

Compound	CAS	Cat. No.	Unit
(-)-alpha-Bisabolol	23089-26-1	CP-TER-001S	1 mL
beta-Pinene	18172-67-3	CP-TER-002S	1 mL
(-)-Borneol	464-45-9	CP-TER-003S	1 mL
(-)-Caryophyllene oxide	1139-30-6	CP-TER-004S	1 mL
(-)-Guaiol	489-86-1	CP-TER-005S	1 mL
(-)-Isopulegol	89-79-1	CP-TER-006S	1 mL
(+)-Borneol	464-43-7	CP-TER-007S	1 mL
(+)-Fenchone	4695-62-9	CP-TER-008S	1 mL
Eucalyptol	470-82-6	CP-TER-009S	1 mL
alpha-Humulene	6753-98-6	CP-TER-010S	1 mL
alpha-Pinene	80-56-8	CP-TER-011S	1 mL
alpha-Terpinene	99-86-5	CP-TER-012S	1 mL
beta-Caryophyllene	87-44-5	CP-TER-013S	1 mL
beta-Myrcene	123-35-3	CP-TER-014S	1 mL
Camphene	79-92-5	CP-TER-015S	1 mL
Camphor	76-22-2	CP-TER-016S	1 mL
3-Carene	13466-78-9	CP-TER-017S	1 mL
(R)-Limonene	5989-27-5	CP-TER-018S	1 mL
gamma-Terpinene	99-85-4	CP-TER-019S	1 mL
Geraniol	106-24-1	CP-TER-020S	1 mL
(1R)-(-)-Fenchone	7787-20-4	CP-TER-021S	1 mL
Linalool	78-70-6	CP-TER-022S	1 mL
Nerolidol	7212-44-4	CP-TER-023S	1 mL
Ocimene	13877-91-3	CP-TER-024S	1 mL
p-Cymene	99-87-6	CP-TER-025S	1 mL
Terpinolene	586-62-9	CP-TER-026S	1 mL
Valencene (Tech)	4630-07-3	CP-TER-027S	1 mL
Terpineol	8000-41-7	CP-TER-028S	1 mL
Farnesene (mixture of isomers)		CP-TER-029S	1 mL

### Cannabis Terpene Set

CP-TER-MIX-SET 2 x 1 mL  
CP-TER-MIX-001, CP-TER-MIX-002

### Cannabis Terpene Mix 1

CP-TER-MIX-001

100 µg/mL each in PT Methanol

1 mL  
14 comps.

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

### Cannabis Terpene Mix 2

CP-TER-MIX-002

100 µg/mL each in PT Methanol

1 mL  
14 comps.

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

### Cannabis Terpene Mix 3

CP-TER-MIX-003

2500 µg/mL each in Isopropanol

1 mL  
19 comps.

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 ASTM Method

## ASTM D8399 Pesticides in Cannabis

### D8399 Pesticides in Cannabis

#### Mix 1

**D-8399-01**

100 µg/mL each in Acetonitrile

**1 mL**

12 comps.

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

### D8399 Pesticides in Cannabis

#### Mix 2

**D-8399-02**

100 µg/mL each in Acetonitrile

**1 mL**

19 comps.

Acetamiprid	Kresoxim-methyl
Boscalid	Metalaxyl
Carbaryl	Methomyl
Chlorantraniliprole	Oxamyl
Clofentezine	Tilt
Dimethomorph	Pyridaben
Fenpyroximate	Spinetoram
Flonicamid	Thiamethoxam
Fludioxonil	Trifloxystrobin
Hexythiazox	

### D8399 Pesticides in Cannabis

#### Mix 3

**D-8399-03**

100 µg/mL each in Acetonitrile

**1 mL**

26 comps.

Aldicarb	Thiacloprid
Carbofuran	Acephate
Dursban	Acequinocyl
Alar	Azadirachtin
Dimethoate	Benzovindiflupyr
Ethoprop	Bifenthrin
Etofenprox	Diazinon
Fenoxycarb	Dodemorph acetate
Fipronil	Naled
Methiocarb	Imidan
Paclobotrazol	Piperonyl butoxide
Baygon	Prallethrin
Spiroxamine	Pyrethrins

### D8399 Pesticides in Cannabis

#### Mix 4

**D-8399-04**

100 µg/mL in Acetonitrile

**1 mL**

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

**D-8399-SET**

Each 100 µg/mL in Acetonitrile

**4 x 1 mL**



# Cannabis State Methods

## California Cannabis Residual Pesticides

### California Category I Residual Pesticide Mix 1

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

Alar	Dimethoate	Methiocarb
Aldicarb	Dursban	Mevinphos
Baygon	Ethoprop	Paclobutrazol
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	Etoazoxole	Spinosad
Captan	Hexythiazox	Spirotetramat
Carbaryl	Imidacloprid	Tebuconazol
Chlorantraniliprole	Kresoxim-methyl	Thiamethoxam
Clofentezine	Metalaxyl	Tilt
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-	Spiromesifen
Cypermethrin	nitrobenzene	

Independently prepared lots available

## California Cannabis Residual Solvents

### California Category I Residual Solvent Mix

**CP-CA-RS-01** 1 mL  
5000 µg/mL each in 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-031** 1 mL  
5000 µg/mL each in Water 7 comps.

Acetone	Ethyl acetate	Isopropanol
Acetonitrile	Diethyl ether	Methyl alcohol
Ethanol		

### 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
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### 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 6 comps.

1,2-Dichloroethane	Chloroform	Trichloroethene
Benzene	Dichloromethane	

\* ColdPAK required to maintain integrity of product.

# Cannabis State Methods

## Colorado Cannabis Residual Pesticides

### Colorado Cannabis Residual Pesticide Mix

<b>CP-CO-01</b>			<b>1 mL</b>
100 µg/mL each in Acetonitrile			13 comps.
Abamectin	Imidacloprid	Spinosad	
Azoxystrobin	Malathion	Spiromesifen	
Bifenazate	Myclobutanil	Spirotetramat	
Etoazole	Permethrin	Tebuconazol	
Imazalil			

## Connecticut Cannabis Pesticide Proposed Testing

### Connecticut Cannabis Pesticide Proposed Testing Standard

<b>CP-CT-PEST-01</b>			<b>1 mL</b>
100 µg/mL each in AcCN			14 comps.
Abamectin	Etoazole	Pyrethrins	
Acequinocyl	Imazalil	Spinosad	
Bifenazate	Imidacloprid	Spiromesifen	
Bifenthrin	Myclobutanil	Spirotetramat	
Cyfluthrin	Paclobutrazol		

## Florida Cannabis Pesticides

### Florida Cannabis Pesticide Mix 1

<b>CP-FL-01</b>			<b>1 mL</b>
100 µg/mL each in Acetonitrile			29 comps.
Azoxystrobin	Fenhexamid	Myclobutanil	
Bifenazate	Fenpyroximate	Oxamyl	
Boscalid	Fonicamid	Tilt	
Captan	Fludioxonil	Pyridaben	
Carbaryl	Hexythiazox	Spinosad	
Chlorantraniliprole	Imidacloprid	Spirotetramat	
Chloromequat chloride	Kresoxim-methyl	Tebuconazol	
Clofentezine	Metalaxyl	Thiamethoxam	
Dimethomorph	Methomyl	Trifloxystrobin	
Etoazole			

### Florida Cannabis Pesticide Mix 2

<b>CP-FL-02</b>			<b>1 mL</b>
100 µg/mL each in Acetonitrile			20 comps.
Alar	Dichlorvos	Methiocarb	
Aldicarb	Dimethoate	Mevinphos	
Baygon	Ethoprop	Paclobutrazol	
Carbofuran	Etofenprox	Parathion-methyl	
Chlorfenapyr	Fenoxycarb	Spiroxamine	
Coumaphos	Fipronil	Thiacloprid	
Dursban	Imazalil		

### Florida Cannabis Pesticide

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

### Florida Cannabis Pesticide Mix 4

<b>CP-FL-04</b>			<b>1 mL</b>
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			

## Maryland Cannabis Residual Pesticides

### Maryland Cannabis Residual Pesticide Set

<b>CP-MD-SET</b>	<b>3 x 1 mL</b>
	CP-MD-01, CP-MD-02, CP-MD-03

### Maryland Cannabis Residual Pesticide Mix 1

<b>CP-MD-01</b>			<b>1 mL</b>
100 µg/mL each in Acetonitrile			29 comps.
Acetamidrid	Clofentezine	Methomyl	
Alar	Etoazole	Myclobutanil	
Aldicarb	(E)-Fenpyroximate	Oxamyl	
Ancymidol	Fonicamid	Spinosad	
Azoxystrobin	Flurprimidol	Spirotetramat	
Bifenazate	Hexythiazox	Thiacloprid	
Bonzi	Imidacloprid	Thiamethoxam	
Boscalid	Kresoxim-methyl	Tilt	
Carbaryl	Metalaxyl	Trifloxystrobin	
Carbofuran	Methiocarb		

### Maryland Cannabis Residual Pesticide Mix 2

<b>CP-MD-02</b>			<b>1 mL</b>
100 µg/mL each in Acetonitrile			7 comps.
Bifenthrin	cis-Permethrin	Piperonyl butoxide	
Cyfluthrin	trans-Permethrin	Pyrethrins	
Cypermethrin			

### Maryland Cannabis Residual Pesticide Mix 3

<b>CP-MD-03</b>			<b>1 mL</b>
100 µg/mL each in Acetonitrile			8 comps.
Abamectin	Dursban	Malathion	
Diazinon	Ethephon	Spiromesifen	
Dimethoate	Imidan		

## Massachusetts Cannabis Residual Pesticides

### Massachusetts Cannabis Residual Pesticide Mix

<b>CP-MA-01</b>			<b>1 mL</b>
100 µg/mL each in Acetonitrile			9 comps.
Bifenazate	Etoazole	Myclobutanil	
Bifenthrin	Imazalil	Spiromesifen	
Cyfluthrin	Imidacloprid	Trifloxystrobin	

## Nevada Cannabis Pesticides

### Nevada Cannabis Pesticide Mix 1

<b>CP-NV-PEST-01</b>			<b>1 mL</b>
100 µg/mL each in Acetonitrile			22 comps.
Acequinocyl	Imazalil	Trifloxystrobin	
Bifenazate	Myclobutanil	Fludioxonil	
Captan	Piperonyl butoxide	Abamectin	
Cyfluthrin	Pyrethrins	Alar	
Dimethomorph	Spinetoram	Bifenthrin	
Etoazole	Spinosad	Cypermethrin	
Fonicamid	Thiamethoxam	Quintozene	
Imidacloprid			

### Nevada Cannabis Pesticide Mix 2

<b>CP-NV-PEST-02</b>			<b>1 mL</b>
100 µg/mL each in Acetonitrile			3 comps.
Fenhexamid	Spirotetramat	Thiophanate-methyl	

# Cannabis State Methods

## Oregon Cannabis Residual Pesticides

The Oregon Health Association (OHA) has classified and submitted three prioritized groupings of residue cannabis pesticides:

- Fungicides
- Pyrethroids
- Organophosphates

“Pesticides Use on Cannabis”, a white paper published by the Cannabis Safety Institute in June of 2015, originally contained 188 active compounds.

From the targeted 188 active compounds, a working group within the OHA had numerous analytical laboratories study the toxicological effects and the historical natural application of each of the compounds for crop and human ingestion. The results reduced the original number of targeted compounds to 59 pesticides. AccuStandard offers 4 solutions to cover these 59 compounds.

### Oregon Cannabis Residual Pesticide Set

**CP-ORE-SET-R1** 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** 1 mL  
100 µg/mL each in Acetonitrile 20 comps.

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

### Oregon Cannabis Residual Pesticide Mix 2

**CP-ORE-02** 1 mL  
100 µg/mL each in Acetonitrile 16 comps.

Acephate	Dursban	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** 1 mL  
100 µg/mL each in Acetonitrile 22 comps.

Acetamidrid	Fludioxonil	Piperonyl butoxide
Azoxystrobin	Imazalil	Propiconazole
Bifenazate	Kresoxim-methyl	Pyridaben
Boscalid	Metalaxyl	Spiroxamine
Chlorfenapyr	MGK-264	Tebuconazol
Dichlorvos	Myclobutanil	Thiacloprid
Etoazole	Paclobutrazol	Trifloxystrobin
Fipronil		

### Spiromesifen

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

Independently prepared lots available

## Oregon Cannabis Residual Solvents

### Oregon Cannabis Residual Solvent Mix 1

**CP-ORE-RS-01** 1 mL  
1000 µg/mL each in Water 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** 1 mL  
1000 µg/mL each in Ethanol 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** 1 mL  
1000 µg/mL each in Ethanol 4 comps.

sec-Butanol	Isobutane
n-Propane	Neopentane

### Oregon Cannabis Residual Solvent

**CP-ORE-RS-04 \*** 1 mL  
1000 µg/mL in Water

Ethylene oxide
----------------

## Pennsylvania Cannabis Pesticides

### Pennsylvania 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
Dursban	Imazalil	Baygon
Cyfluthrin	Malathion	Spiroxamine
Cypermethrin	Methiocarb	Thiacloprid
Alar	Parathion-methyl	

### Pennsylvania Cannabis Pesticide Mix 2

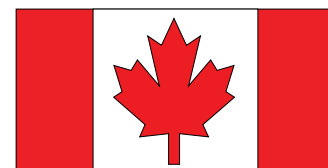
**CP-PA-02** 1 mL  
100 µg/mL each in Acetonitrile 29 comps.

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

\* ColdPAK required to maintain integrity of product.

# 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**

100 µg/mL each in Acetonitrile

	<b>1 mL</b>	
	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

### Canada Cannabis Pesticide Mix 3

**CP-CAN-03-R1**

100 µg/mL each in Acetonitrile

	<b>1 mL</b>	
	23 comps.	
Acetamiprid	Fludioxonil	Piperonyl butoxide
Azoxystrobin	Imazalil	Propiconazole
Bifenazate	Kresoxim-methyl	Pyridaben
Boscalid	Metalaxyl	Spiroxamine
Chlorfenapyr	MGK-264	Tebuconazol
Dichlorvos	Myclobutanil	Thiacloprid
Etoxazole	Pacllobutrazol	Trifloxystrobin
Fipronil		

### Canada Cannabis Pesticide Mix 4

**CP-CAN-04**

100 µg/mL each in Acetonitrile

	<b>1 mL</b>	
	16 comps.	
Acephate	Dursban	Naled
Bifenthrin	Ethoprop	Permethrin
Cyfluthrin	Etofenprox	Phosmet
Cypermethrin	Malathion	Prallethrin
Diazinon	Methyl parathion	Pyrethrins
Dimethoate		

#### 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**

100 µg/mL each in Acetonitrile

	<b>1 mL</b>	
	20 comps.	
Abamectin	Daminozide	Methomyl
Acequinocyl	Fenoxycarb	Oxamyl
Carbaryl	(E)-Fenpyroximate	Propoxur
Carbofuran	Fonicamid	Spinosad
Chlorantraniliprole	Hexythiazox	Spirotetramat
Clofentazine	Imidacloprid	Thiamethoxam
Clofentazine	Methiocarb	

### Azadirachtin

**P-711S-CN**

100 µg/mL in Acetonitrile

**1 mL**

### Spiromesifen

**P-960S-CN**

100 µg/mL in Acetonitrile

**1 mL**

## Canada Cannabis Residual Solvents

### Canada Cannabis Residual Solvent Mix 1

**CP-CAN-RS-01**

5000 µg/mL each in Methanol

	<b>1 mL</b>	
	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**

5000 µg/mL each in Methanol

	<b>1 mL</b>	
	2 comps.	
Acetone	Methyl ethyl ketone	

### Canada Cannabis Residual Solvent Mix 3 (Gases)

**CP-CAN-RS-03**

500 µg/mL each in Methanol

	<b>1 mL</b>	
	3 comps.	
n-Butane	Propane	
Isobutane		

Independently prepared lots available



# 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
<b>Arsenic (As)</b> As	2-5% Nitric acid	ICP-03N-1	100 mL
		ICP-03N-5	500 mL
<b>Cadmium (Cd)</b> Cd	2-5% Nitric acid	ICP-08N-1	100 mL
		ICP-08N-5	500 mL
<b>Chromium (Cr)</b> Cr(NO <sub>3</sub> ) <sub>3</sub> •9H <sub>2</sub> O	2-5% Nitric acid	ICP-13N-R-1	100 mL
		ICP-13N-R-5	500 mL
<b>Lead (Pb)</b> Pb(NO <sub>3</sub> ) <sub>2</sub>	2-5% Nitric acid	ICP-29N-1	100 mL
		ICP-29N-5	500 mL
<b>Mercury (Hg)</b> Hg	10% Nitric acid	ICP-34N-1	100 mL
		ICP-34N-5	500 mL
<b>Nickel (Ni)</b> Ni	2-5% Nitric acid	ICP-37N-1	100 mL
		ICP-37N-5	500 mL
<b>Thallium (Tl)</b> TlNO <sub>3</sub>	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

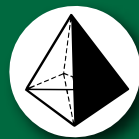
**CP-MET-CAL-LOW-1** 100 mL  
**CP-MET-CAL-HIGH-1** 100 mL  
At stated conc. (µg/mL) 2-5% Nitric acid 4 comps

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

#### 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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