



MANDATORY CANNABIS TESTING FOR PESTICIDE ACTIVE INGREDIENTS

List and limits



Government
of Canada

Gouvernement
du Canada

Canada 

Disclaimer: This document must be used in conjunction with the Mandatory cannabis testing for pesticide active ingredients—Requirements, which describes testing and reporting requirements for the pesticide active ingredients listed in this document.

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1.0 Pesticide active ingredients list and limits

The Pest Management and Regulatory Agency maintains a list of historical and current pest control products (PCPs) used in Canada. Only certain PCPs have been approved in Canada for use on cannabis.

PCPs that are of the most concern or are most likely to be used on cannabis have been added to this pesticide active ingredients list if they:

- were detected on cannabis in Canada or in American states that have regulated its production
- are used against pests that can be found on cannabis
- were observed by inspectors of Health Canada or the Canadian Border Services Agency
- were identified because of their risk to health or the environment, or because of other factors

Health Canada has set limits of quantification (LoQ) for pesticide active ingredients in each matrix (i.e., fresh cannabis and cannabis plants, dried cannabis, and cannabis oil). These limits are based on the identification and quantification of the molecule using current chemical analytical methods and equipment. The values may differ between each matrix because of specific constraints associated with analyzing each product type.

The pesticide active ingredients list will be reviewed periodically and revised as needed as Health Canada monitors the industry for pesticide active ingredients and advances in chemical analysis technology.

Health Canada has the authority to take action if an unauthorized PCP is used by licence holders under the *Cannabis Act* and its Regulations and under the *Pest Control Products Act* and its Regulations, whether or not the PCP is listed in this document and regardless of the level of contamination.

Health Canada encourages anyone who suspects that an unauthorized PCP not listed in this document is being used on cannabis to communicate with the Cannabis Legalization and Regulation Branch at cannabis@canada.ca.

2.0 Limits under development

In the table below, limits that are identified with an asterisk (*) are still being developed by Health Canada and will be added as they become available. Licence holders will be notified when these limits are finalized, at which point these limits will become part of the Mandatory cannabis testing for pesticide active ingredients—Requirements.

3.0 Limits of quantification of the mandatory testing for pesticide active ingredients in cannabis products

* Limit of quantification under development.

Active ingredient	Limits of Quantification in parts per million		
	Fresh cannabis and plants	Dried cannabis	Cannabis oil
Abamectin	0.25	*	0.25
Acephate	*	0.020	0.050
Acetamiprid	0.050	0.10	0.050
Acequinocyl	*	*	*
Aldicarb	0.50	1.0	0.50
Allethrin	0.10	0.20	0.10
Azadirachtin	0.50	1.0	0.50
Azoxystrobin	0.010	0.020	0.010
Benzovindiflupyr	0.010	0.020	0.010
Bifenazate	*	0.020	0.010
Bifenthrin	0.10	*	*
Boscalid	0.010	0.020	0.010
Buprofezin	0.010	0.020	*
Carbaryl	0.025	0.050	0.025
Carbofuran	0.010	0.020	0.010
Chlorantraniliprole	*	*	*
Chlorphenapyr	0.10	*	1.5
Chlorpyrifos	0.010	*	0.50
Clofentezine	0.010	0.020	0.010
Clothianidin	0.025	0.050	0.025
Coumaphos	0.010	0.020	0.010
Cyantranilipole	0.010	*	0.010
Cyfluthrin	*	*	*
Cypermethrin	*	*	*
Cyprodinil	*	*	0.010

Active ingredient	Limits of Quantification in parts per million		
	Fresh cannabis and plants	Dried cannabis	Cannabis oil
Daminozide	*	*	*
Deltamethrin	*	*	*
Diazinon	0.010	*	*
Dichlorvos	0.050	0.10	0.050
Dimethoate	0.010	0.020	0.010
Dimethomorph	*	*	*
Dinotefuran	0.050	0.10	0.050
Dodemorph	0.050	*	*
Endosulfan-alpha	0.10	*	2.5
Endosulfan-beta	0.50	*	2.5
Endosulfan sulfate	0.50	*	2.5
Ethoprophos	0.010	0.020	0.010
Etofenprox	*	*	*
Etoxazole	0.010	0.020	*
Etridiazol	0.010	*	0.15
Fenoxycarb	0.010	0.020	0.010
Fenpyroximate	*	0.020	*
Fensulfothion	0.010	0.020	0.010
Fenthion	0.010	*	0.010
Fenvalerate	*	*	*
Fipronil	0.010	0.060	0.010
Flonicamid	0.025	0.050	0.025
Fludioxonil	0.010	0.020	0.010
Fluopyram	0.010	0.020	0.010
Hexythiazox	*	*	*
Imazalil	*	*	0.010
Imidacloprid	0.010	0.020	0.010
Iprodione	0.50	1.0	0.50
Kinoprene	0.050	*	1.25
Kresoxim-methyl	0.010	*	0.15
Malathion	0.010	0.020	0.010
Metalaxyl	0.010	0.020	0.010
Methiocarb	0.010	0.020	0.010
Methomyl	*	0.050	0.025
Methoprene	1.0	*	*
Methyl parathion	*	*	*

Active ingredient	Limits of Quantification in parts per million		
	Fresh cannabis and plants	Dried cannabis	Cannabis oil
Mevinphos	0.025	0.050	0.025
MGK-264	*	*	*
Myclobutanil	0.010	0.020	0.010
Naled	*	*	*
Novaluron	0.025	0.050	0.025
Oxamyl	1.5	3.0	1.5
Paclobutrazol	0.010	0.020	0.010
Permethrin	0.50	*	*
Phenothrin	0.025	0.050	*
Phosmet	*	*	*
Piperonyl butoxide	0.25	*	1.25
Pirimicarb	0.010	0.020	0.010
Prallethrin	*	*	*
Propiconazole	0.010	*	*
Propoxur	0.010	0.020	0.010
Pyraclostrobin	0.010	0.020	0.010
Pyrethrins	0.025	0.050	*
Pyridaben	0.025	0.050	0.020
Quintozene	0.010	*	*
Resmethrin	*	0.10	0.050
Spinetoram	*	*	0.010
Spinosad	*	*	0.010
Spirodiclofen	*	*	*
Spiromesifen	*	3.0	*
Spirotetramat	*	0.020	0.010
Spiroxamine	*	*	*
Tebuconazole	*	*	0.010
Tebufenozide	0.010	0.020	0.010
Teflubenzuron	0.025	0.050	0.025
Tetrachlorvinphos	0.010	0.020	0.010
Tetramethrin	0.050	0.10	*
Thiacloprid	0.010	0.020	0.010
Thiamethoxam	0.010	0.020	0.010
Thiophanate-methyl	*	0.050	*
Trifloxystrobin	0.010	0.020	0.010