

## Protocol for Sampling and Analysis of Finished Medical Marijuana Products and Marijuana-Infused Products for Massachusetts Registered Medical Marijuana Dispensaries

### Exhibit 5. Minimum Analysis Requirements for Residues of Pesticides and Plant Growth Regulators Commonly Used in Cannabis Cultivation

This document was issued originally by the Department of Public Health (DPH). As part of the transfer of the medical-use of marijuana program on or before December 31, 2018, the Commission adopted this document. We suggest that before you rely on the contents of this document, you check the applicable medical-use marijuana laws, which include M.G.L. c. 94I and 935 CMR 500.501, as they may provide or clarify the legal requirements related to this document. We also suggest that you periodically check for revisions to this document. Questions with regards to this document may be directed to [CannabisCommission@Mass.gov](mailto:CannabisCommission@Mass.gov).

Pesticide	Use	Residue Analytical Methods
Bifenazate	Acaricide	LC; LC-MS/MS
Bifenthrin (synthetic pyrethroid)	Insecticide	GC-ECD; GC-MS/MS
Cyfluthrin (synthetic pyrethroid)	Insecticide	LC; GC-MS/MS
Etoxazole	Acaricide	GC-MS(/MS)
Imazalil	Fungicide	GC-ECD; LC-MS/MS
Imidacloprid	Insecticide	LC-MS/MS
Myclobutanil	Fungicide	GC-ECD; GC-NPD; GSMS/MS; LC-MS/MS
Spiromesifen	Insecticide	GC-MS; LC-MS/MS
Trifloxystrobin	Fungicide	GC-NPD; GC-MS/MS; LC-MS/MS

Source AHP (2013)

ECD = Electron capture detector; FLD = Fluorescence detector; GC = Gas chromatography; MS = Mass spectrometry;

NPD = Nitrogen phosphorous detector; LC = Liquid chromatography

*Please note that these Protocols are continually evaluated and revised based upon new scientific and industry information.*

