

Protocol for the Sampling and Analysis of Finished Marijuana Products and Marijuana Products for Marijuana Establishments, Medical Marijuana Treatment Centers, and Colocated Marijuana Operations

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

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This document is issued by the Cannabis Control Commission. The applicable Marijuana laws, which include M.G.L. c. 94I, 94G, 935 CMR 500.000 and 935 CMR 501.000, should be reviewed as they may provide or clarify the legal requirements related to this document. This protocol document should be checked periodically for revisions. Questions with regards to this document may be directed to Commission@CCCMass.com.



| 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.

