

# 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 2. Contaminants of Concern and Testing Requirements for Medical  
Marijuana Products*

*Implemented March 11, 2021 and Revised June 2, 2021*

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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](mailto:Commission@CCCMass.com).

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Production Stage/Product	Contaminants of Concern	Required Testing
<p>Cultivation [see <a href="#"><u>Protocol for Sampling and Analysis of Environmental Media for Marijuana Establishments, Medical Marijuana Treatment Centers, and Colocated Marijuana Operations</u></a>]</p>	<ul style="list-style-type: none"> <li>• Non-organic pesticide residues, metals, and other organic chemicals (e.g. PCBs) taken up by plants from soil/growing media</li> <li>• Non-organic pesticides, metals, and other organic chemicals taken up by plants from water source</li> <li>• Non-organic pesticides applied to plants in noncompliance</li> <li>• Unidentified non-organic pesticides, metals, and other chemicals in non-pesticide agricultural or hydroponic products</li> <li>• Fungi/microbes growing on plants or equipment</li> </ul>	<p>Test soil or other solid media:</p> <ul style="list-style-type: none"> <li>• Pesticides</li> <li>• Metals and other organic chemicals (e.g. PCBs)</li> </ul> <p>Test water sources:</p> <ul style="list-style-type: none"> <li>• Pesticides</li> <li>• Metals</li> <li>• Bacteriological contaminants</li> </ul>



Production Stage/Product	Contaminants of Concern	Required Testing
Finished Plant Material	<ul style="list-style-type: none"> <li>• Contaminants remaining from cultivation</li> <li>• Fungal/microbial growth during finishing</li> </ul>	<p>All production batches:</p> <ul style="list-style-type: none"> <li>• Pesticides and plant growth regulators</li> </ul> <p>Production batches to be dispensed as finished medical marijuana product:</p> <ul style="list-style-type: none"> <li>• Metals</li> <li>• Bacteria/fungi/mycotoxins</li> <li>• Cannabinoid profile</li> </ul>
Cannabis Resin	<ul style="list-style-type: none"> <li>• Contaminants remaining from cultivation</li> <li>• Solvents if used to extract resin</li> <li>• Fungal/microbial growth during production</li> </ul>	<p>All production batches:</p> <ul style="list-style-type: none"> <li>• Solvents (if used)</li> <li>• Metals</li> </ul> <p>Only production batches to be dispensed as medical marijuana product:</p> <ul style="list-style-type: none"> <li>• Bacteria/fungi/mycotoxins</li> <li>• Cannabinoid profile</li> <li>• Vitamin E Acetate</li> </ul>



Production Stage/Product	Contaminants of Concern	Required Testing
Cannabis Concentrates	<ul style="list-style-type: none"> <li>• Contaminants remaining from cultivation</li> <li>• Solvents used to extract oil</li> <li>• Fungal/microbial growth during production</li> </ul>	<p>All production batches:</p> <ul style="list-style-type: none"> <li>• Solvents</li> <li>• Metals</li> </ul> <p>Only production batches to be dispensed as medical marijuana product:</p> <ul style="list-style-type: none"> <li>• Bacteria/fungi/mycotoxins</li> <li>• Cannabinoid profile</li> <li>• Vitamin E acetate</li> </ul>
MIPs	<ul style="list-style-type: none"> <li>• Contaminants in finished marijuana ingredients</li> <li>• Fungal/microbial growth during production</li> </ul>	<p>All production batches:</p> <ul style="list-style-type: none"> <li>• Bacteria/fungi/mycotoxins</li> <li>• Cannabinoid profile</li> </ul>

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

