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Pesticide and Mycotoxin Analysis Utilizing LC/MS/MS to Meet New York's Adult Use Regulatory Requirements

Presenter: Mollie Cyr, Application Scientist, PerkinElmer

Co-Author: Toby Astill

Abstract: With the increasing legalization of cannabis products for recreational use, there is a new and growing need for laboratories that have the capability to analyze cannabis and hemp for compliance with state regulations. New York State has recently legalized the recreational use of cannabis for adults and these regulations include stringent requirements for laboratories to test adult use cannabis for a variety of contaminants before the product can be available for consumer use. This list of contaminants includes pesticides and mycotoxins, which are toxic and pose a risk to consumers. In the past, laboratories traditionally used both LC/MS/MS technology and GC/MS/MS technology to meet testing requirements for large lists of pesticides required by certain states, such as California and Oregon. Today, PerkinElmer's QSight® LC/MS/MS technology can analyze all pesticides and mycotoxins required by states thus far, including New York's new pesticide and mycotoxins testing requirements. By eliminating the need for GC/MS/MS to analyze pesticides and mycotoxins, laboratories can use simpler, more time effective, and more cost-effective pesticide and mycotoxin testing workflows. This presentation is aimed to discuss how the QSight® LC/MS/MS technology eliminates the use of GC/MS/MS for pesticide and mycotoxin testing and showcase newly collected data that meets New York's pesticide and mycotoxin regulatory requirements.