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DNA Microarray for 1 CFU/g Detection of Aspergillus, Salmonella, STEC (stx1 and stx2) in Dried Cannabis Flower

Presenter: Michael E. Hogan, Ph.D., CSO, PathogenDX

Abstract: Several harmful pathogens have been identified in cannabis flower that pose a risk to consumers such as Aspergillus, Salmonella, and STEC+ Escherichia coli. The majority of states with approved medical or recreational cannabis require 1 CFU/g detection of these pathogens. The objective was to conduct an AOAC PTM matrix study of PathogenDx Detectx-Combined method in dried cannabis flower (delta 9-tetrahydrocannabinol >0.3%; 10 g sample size). The DetectX-Combined assay was tested following AOAC Official Methods of Analysis Appendix J validation guidelines and the AOAC Cannabis Aspergillus, Salmonella and STEC protocol for 1 CFU/g detection in cannabis flower. Inclusivity and exclusivity, product consistency and assay robustness were also evaluated.