

THE EMERALD CONFERENCE

Produced by MJBizScience

March 1-3, 2023

www.TheEmeraldConference.com

New Standardized Methods for Metals in Cannabis

Presenter: Jenny Nelson, Application Scientist, Agilent Technologies

Abstract: Introduction: Regulatory methods are absent for accurately testing Cannabis products, for many toxins, like heavy metals. Like food and pharmaceuticals, cannabis testing should include analyzing heavy metals. AOAC and ASTM have taken on this task and diligently worked towards this goal. We will present our method for the preparation, and multi-elemental analysis of Cannabis products were prepared for analysis using microwave-assisted acid digestion followed by testing with ICP-MS. The accuracy and precision of the ICP-MS method for the determination of As, Cd, Hg, Pb, and other elements were tested by spiking the various samples at different concentration levels and determining the spike recoveries.