

Guide to Reference Material use in Trace Level Analysis

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The analysis of contaminants and residues in human and animal foods presents special challenges due to the large numbers of analytes with varied chemical properties being analyzed at low concentrations in a single method. In addition, a single multi-residue method may be utilized to screen a wide variety of complex food, dietary supplement and environmental matrices for compliance with strict regulatory requirements. Recognizing these challenges, the Reference Materials Working Group of the North American Chemical Residue Workshop is developing a best practices guide for understanding and effectively using reference materials specific to complex trace level analysis. This presentation will introduce the guide and provide an overview of the content.

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Jo Marie Cook is recently retired from the Florida Department of Agriculture where she served as Bureau Chief of the Chemical Residue Laboratories. She also has been a member of the NACRW Organizing Committee for over twenty years and serves on the Board of Directors. She has a degree in chemistry from Michigan State University.