

**USP-NF General Chapters on Elemental Impurities: Technical Guidance for Successful Implementation in the Laboratory (Classroom)**

Art. ID	USP-CM-231-03
Unit	Each
Deliverydetails	No Dangerous Good

**Description**

This two-day theory and lab course will prepare you for the implementation of USP Elemental Impurities standards. This course will emphasize hands-on learning of sample preparation and elemental impurities analyses of pharmaceutical materials per USP-NF General Chapters <232> and <233>. The first day will be dedicated to classroom learning on elemental impurities analysis, including risk-based analysis, calculation of J concentrations and working calibration standards, and calculation of accuracy, sensitivity, repeatability, and ruggedness. The second day will be a laboratory practical using closed-vessel microwave digestion and ICP-MS or ICP-OES to prepare and analyze representative samples.