



## Analysis of Elemental Impurities

*Gain insight into proposed new standards for the analysis of elemental impurities.*

### Course Overview

Proposed changes for the analysis of elemental impurities aim to help strengthen the quality of pharmaceutical materials and dietary supplements. Learn about two new proposed *USP* General Chapters, <232> Elemental Impurities—Limits and <233> Elemental Impurities—Procedures, and how these procedures can benefit your work.

This course covers proposed elemental impurities to be controlled and their proposed limits, related method development and method validation strategies, and the application of three instrumental techniques: Atomic Absorption (AA), Inductively Coupled Plasma—Optical Emission Spectroscopy (ICP—OES), and Inductively Coupled Plasma—Mass Spectroscopy (ICP—MS).

**Duration:** One day, 8:00 am–5:00 pm

**Location:** SGS—Life Science Services  
6490 Vipond Drive  
Mississauga, ON Canada L5T 1W8

**Format:** Lecture

**Date:** May 26, 2010

**Fee:** CAD \$595 per person. Group discount for three or more registrants, CAD \$450 per person.

**Early Bird Special: CAD \$450 per person when registering before May 13, 2010.**

### To Register

**Contact:**

A&C American Chemical, Ltd.  
3010 De Baene Street  
Montreal, Quebec H4S 1L2  
+1-514-336-1493

### For More Information

**Contact:**

Pharmacopeial Education  
Website: <http://www.usp.org/education/>  
Email: [pharmed@usp.org](mailto:pharmed@usp.org)  
+1-301-230-6304

### Learning Objectives

- ▶ Understand issues concerning with current *USP* General Chapter <231> Heavy Metals and the solutions offered by proposed new chapters
- ▶ Describe the scope and context of the new chapters: <232> Elemental Impurities—Limits and <233> Elemental Impurities—Procedures
- ▶ Identify method development and validation strategies
- ▶ Explain new procedures and acceptance criteria
- ▶ Learn basic theories of operation for AA, ICP—OES, and ICP—MS

### Who Should Attend

- ▶ Analytical chemists
- ▶ Lab managers
- ▶ Compliance managers
- ▶ Others who work with metal impurities
- ▶ QA managers
- ▶ QC managers
- ▶ Production managers

### INSTRUCTOR

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