

# USP <1469> Nitrosamines Impurities

#### **Course Overview**

Nitrosamines are a critical topic for regulators and industry given the recent safety recalls of several products containing this impurity. This one-day course will provide attendees with an understanding of current regulatory guidelines and USP General Chapter <1469> Nitrosamine *Impurities.* The course will provide an overview of sources of nitrosamines including their formation from the presence of other impurities and how to eliminate or reduce levels of nitrosamines. Tools to assess and control nitrosamines in drug substances and drug products as well as in depth analytical procedures in USP <1469> including the use of the USP Reference Standard and precautions to be used during procedures will also be covered. The course will also address risk assessment methodology as per ICH9, control strategy development, calculation of nitrosamine limits as per ICH M7 as well as test method performance characteristics.

Attendees will engage in learning via a live virtual webinar.

### **Learning Objectives**

Upon completion of this course, you will be able to:

- Describe the background, scope and approach of USP <1469> Nitrosamine Impurities and applicable regulatory guidelines.
- Explain pathways and sources of nitrosamine formation along with risk assessment tools and a highlevel process flow to develop control strategies.
- Describe how to select the appropriate analytical procedures based on test method performance characteristics for nitrosamine methods.
- Discuss the proper use and handling of the USP reference standard in the respective analytical procedures.
- Identify factors which impact sensitivity and selectivity of methods.
- Summarize key considerations, challenges and method conditions along with sample and standard preparation of the four test methods described in USP <1469>.

## Who Should Participate?

- · Research and Development
- QC managers
- QC staff scientists (DS, DP)
- Excipient manufacturers
- Research scientists
- QA staff who authorize drug product release

## **USP Approved Instructors**

Dr. Edmond Biba

Scientist, USP

Dr. Mrunal A. Jaywant

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**Marcus Obeng** 

Senior Scientist I, Reference Standards Lab, USP

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## Why Choose USP Education?

USP Education provides year-round courses and programs on how to effectively interpret and apply USP's internationally recognized quality standards. The standards help ensure the quality and safety of medicines, dietary supplements, and foods.

USP courses are created by the scientists and experts who help develop the USP standards that are used worldwide. Courses are presented by approved instructors with practical, first-hand knowledge of the subject area and related standards. The insights they share will not only make your daily work easier, but also will connect you to an independent, nonprofit scientific body with the goal of creating a strong foundation for a healthier world.

**Duration:** On-Demand

Format: Webex

**Course ID:** CM-1469-01 **Fee:** US \$500.00

Registration: https://uspharmacopeia.csod.com/LMS/

LoDetails/DetailsLo.aspx?loid=45cc1a2b-1ce2-4710-

ab7a-e7cd2e9e9c47#t=1

To register or for information on group pricing, please visit <a href="https://education.usp.org">https://education.usp.org</a> or email education@usp.org.