Webinar on

Issues In Calibrations And Accuracy In Method Validation

Learning Objectives

- How accuracy is determined

- What are the various types of standards and what are their strengths and weaknesses

- The importance of traceability

- Calibration curves – what are the important criteria? Linearity versus nonlinearity, slope, intercept and what they mean

- Matrix effects and how to deal with them

- Using calibration data to monitor performance

The importance of response, matrix effects, the selectivity of identification, and other issues will be covered.

PRESENTED BY:

John C. Fetzer has had over 30 year experience in HPLC methods development. He has authored or co-authored over 50 peer-reviewed papers on liquid chromatography, has served on the editorial advisory boards of the Journal of Chromatography, Analytical Chemistry, and Analytical and Bioanalytical Chemistry.

On-Demand Webinar

Duration : 60 Minutes

Price: $200

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Webinar Description

Accuracy, the ability of a methodology to give results within acceptable limits when compared to known values, is a fundamental and key requirement. Calibration is the most common approach to obtain accuracy.

Accuracy requires a comparison to a validated material. The level of confidence depends on traceability, a chain connecting the samples of interest all the way to the specific metric standards. This can be a complex task which can raise doubts in an auditor. There are different situations for the use of each of standards of the various types. How to access the validity is a key.

In calibration, fundamental reliance on the linearity of response make proof of linearity important. This is more involved than only obtaining a linear regression factor or correlation coefficient. Once proven, though, calibrations can change with various factors. Monitoring calibration behavior and using that to maintain or even improve a methodology can be very useful.
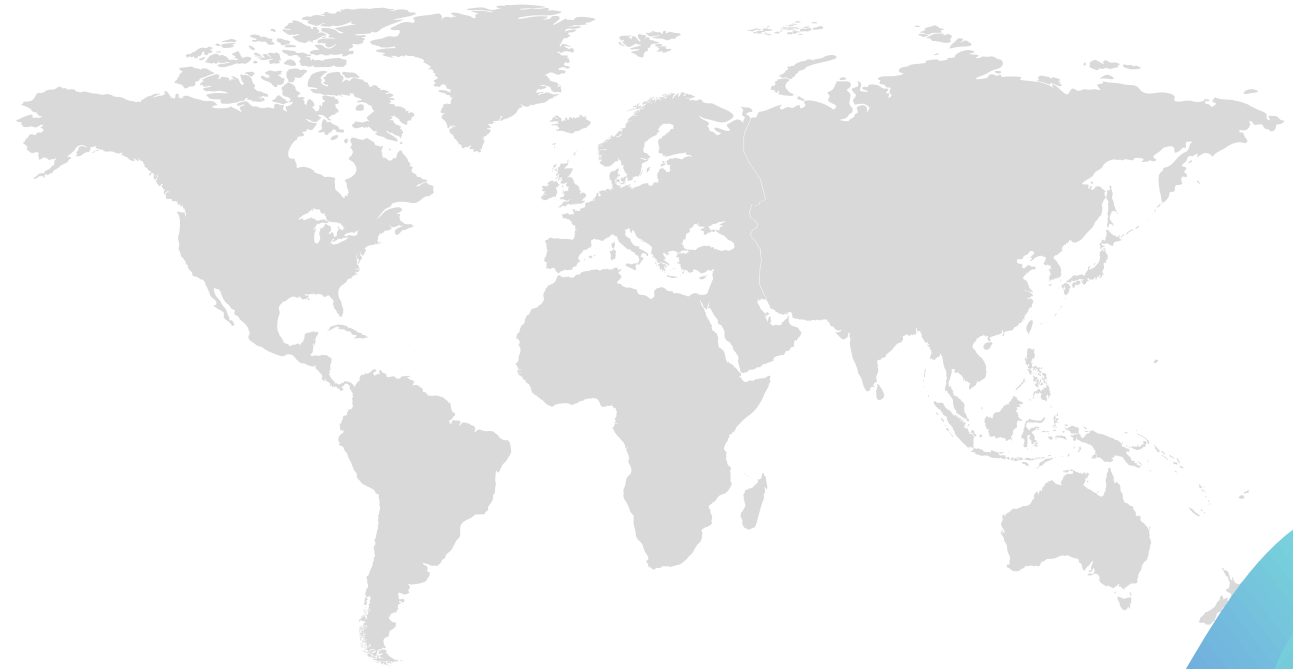
Who Should Attend ?

Lab Chemists
Lab Managers
Lab Technicians
Lab Analysts
Industries into Compliance Methodology
(Biotech, Pharma)

Companies into Environmental Compliance or
EPA

Why Should Attend ?

One of the most important concepts and criteria of Good Laboratory Practices is accuracy, how well does a methodology stand in terms of quantifying when compared to an expected value? There are various approaches in calibration and in the use of standards for comparisons. This webinar will cover the validation of calibrations and the strengths, weaknesses, and appropriateness of the different types of standards. Without accuracy, a result is not acceptable. There are many issues that affect accuracy and there are many approaches to deal with them. The importance of response, matrix effects, the selectivity of identification, and other issues will be covered.

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