

## **Introduction of LAL & Endotoxin Basics**

A Basic Introductory Course for Those Who are Interested in the Use of LAL-Endotoxin Testing

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Core Competency Training

Version: 2.0.0

Duration: 45 minutes

Number of Chapters: 4

Number of Course Pages: (including test pages & title pages): 111

Number of Test Questions: 34

### Course Description

Four (4) chapters with qualifying tests after each chapter cover the course content. Chapter 1 provides a historical overview on the importance of horseshoe crab to man and the main reasons why lysate from the horseshoe crab (LAL) can be used for endotoxin testing. Chapter 2 focuses on risks associated with endotoxin and the basic milestones of LAL testing. Chapter 3 details the chemical & biological characteristics of endotoxin and its relationship to sepsis. Chapter 4 concludes by describing the biological & chemical nature of LAL and the characteristics of the LAL-endotoxin tests.

### Learning objectives

- Understand the most important facts about the evolution of LAL-endotoxin testing.
- Understand the basic chemical and biological characteristics of endotoxin.
- Understand the basic chemical and biological characteristics of LAL.
- Understand the basic concepts of LAL-endotoxin testing.

### Intended Audience

Every employee who needs to design, implement, execute, and/or review Bacterial Endotoxin Testing (BET).

### Prerequisites

Trainees are required to possess a basic working knowledge of the computer, and possess basic competency in Good Manufacturing Practices.

### Related courses

**Fundamentals of LAL Gel-Clot (BET) Procedures** – This course provides sound foundation for Design Qualification-Installation Qualification-Operational Qualification-Performance Qualification (DQ-IQ-OQ-PQ) of Bacterial Endotoxin Testing by Gel-clot procedure.

**Fundamentals of LAL Quantitative (BET) Procedures** */coming soon/* – This course provides sound foundation for Design Qualification-Installation Qualification-Operational Qualification-Performance Qualification (DQ-IQ-OQ-PQ) of Bacterial Endotoxin Testing by approved quantitative procedures.

**Understanding the Uncertainty of Measurements of LAL-Endotoxin Testing** */coming soon/* – This is an advanced course with examination for the evaluation of the reliability of the LAL-Endotoxin tests system relative to OOS, CAPA, & PAT.