



## QC Microbiology Training

### **BEST™ QC Microbiology Training**

Quality Control Microbiology Training for  
Bioburden, Endotoxin, and Sterility Testing.

#### **Who should attend\*:**

- Quality Control Microbiology
- Quality Assurance Professionals
- Sterile Pharmaceutical Compounders

### **2026 BEST Workshop**

#### **Dates and Location:**

- April 14-16 - Indianapolis, Indiana

#### **How to Register:**

For more information or to register, please contact your ACC or MilliporeSigma Sales Specialist. You may also register online at [SigmaAldrich.com/bestqctraining](https://SigmaAldrich.com/bestqctraining)

*\*Basic lab experience is assumed.*

# BEST QC Microbiology Training

Bioburden, Endotoxin, Sterility Testing — Innovative educational programs designed specifically for you.

**BEST is a three-day innovative educational program designed specifically for you and your laboratory staff.**

This program, brought to you by ACC and MilliporeSigma, will focus on both in-process and product release quality control and will provide an overview of relevant methods in each area. Basic technical laboratory skills, however, are assumed as a prerequisite for participation. The course will consist of class presentations and demonstrations of laboratory applications. This program is only available in the US.

## DAY ONE

### Bioburden Testing

#### Dependable Tests Based on Membrane Filtration

Bioburden testing is critical for monitoring water quality and raw materials and for ensuring that manufacturing processes remain in microbiological control. During the first day of the training, you will learn about:

- Advantages and limitations of membrane filtration
- How to choose the right membrane for your application
- The regulations governing bioburden testing
- How to develop a sampling plan for bioburden testing
- How to qualify and validate a method
- How to set alert and action limits
- How to interpret bioburden test results
- How to troubleshoot membrane filtration issues
- Rapid methods for bioburden testing
- Hands-on session using a manifold and Milliflex Plus Pump

## DAY TWO

### Endotoxin Testing

#### BET Methodology & Background

The Bacterial Endotoxin Test (BET) is used for the detection and quantitation of endotoxins from gram-negative bacteria. Reagents are primarily used to test for endotoxins in injectable pharmaceuticals, biological products, and medical devices. They are also used in renal dialysis centers and a wide range of other applications. During the second day of training, you will learn:

- What are endotoxin and BET reagents
- The regulations governing bacterial endotoxin testing
- The methodology for bacterial endotoxin testing, including the use of recombinant reagents
- How to qualify a chosen BET method
- How to validate samples and how to test them routinely
- How to analyze and interpret data
- How to address sample interference
- Hands-on session — Agilent Epoch 2 microplate reader and Pyros eXpress® software
- Learn about sustainable recombinant reagents

## DAY THREE

### Sterility Testing

#### A Complete Solution for Reliable Results

Sterility testing is considered the most essential QC Microbiological test for releasing sterile final product. This test is heavily regulated and harmonized across most of the globe. During the third day of training, you will learn about:

- The history of sterility testing
- The global harmonized regulations overview
- Environmental monitoring requirements for sterility testing
- Deep dive into USP <71>
- Advantages and limitations of direct inoculation sterility testing
- Advantages and limitations of open funnel sterility testing
- Advantages and limitations of closed system sterility testing
- Overview of sterility testing media and rinse fluids
- Most common sterility questions
- Hands-on session — Steritest Equinox



#### UNITED STATES

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### Program Schedule & Fees

This program is only available in the US.

For program dates and fees, please contact your local ACC representative or check our website at [acciusa.com](http://acciusa.com). To receive additional information or to register for a program, contact the US office below.