



QC Microbiology Training

BEST™ QC Microbiology Training

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

Who should attend*:

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

2026 BEST Workshop

Dates and Location:

- August 25th-27th, 2026
- La Concha Renaissance Resort, San Juan, Puerto Rico

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

**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 the EZ-Fit® Manifold and Milliflex® Plus Pump
- Case studies and troubleshooting guidelines

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 and Environmental Monitoring

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
- Deep dive into USP <71>
- Advantages and limitations of sterility techniques
- Overview of sterility testing media and rinse fluids
- Hands-on session – Steritest® Symbio

Environmental Monitoring is essential in your production facility and this session will include an overview of applicable regulations and guidance documents. Key focus areas include the design of an environmental monitoring program using formal risk assessment methodologies, the selection of appropriate sampling sites, and a review of relevant testing methods.

The training will also explore specific regulations in greater detail, including ISO 14644 and ISO 14698, along with considerations for media selection and air sampling in isolator environments.



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.

To receive additional information or to register for a program, contact the US office below.