

Aspects of Quality Control in the Microbiological Laboratory



NATA's two day '**Aspects of Quality Control in the Microbiological Laboratory**' course is designed to provide participants with a thorough understanding of the elements required for Quality Control in a microbiological laboratory.

WHO SHOULD ATTEND:

This course is aimed at microbiologists and laboratory personnel working in the field of biological testing, especially those analysing food, water and pharmaceutical samples.

The course is also suitable for microbiologists working in pathology (however there are few illustrations and case studies immediately relevant to clinical microbiology).

COURSE OBJECTIVES:

- Effectively manage a culture collection to meet the laboratory's requirements;
- Establish and maintain a comprehensive quality control system for media preparation and purchased media;
- Prepare test method documents which comprehensively describe the laboratory's test methods and relevant quality control procedures;
- Organise and monitor proficiency testing programs; and
- Develop verification and validation protocols for new methods introduced into the organisation.

DETAILED COURSE CONTENT:

Managing the Culture Collection

What Is A Hierarchical Culture Collection System?
Guidelines for Establishing a Culture Collection System
Culture Collection Management

Quality Control of Media

Guidelines for Quality Control for Media Prepared In-House
Media QC Flow Chart
Sterilisation of Media
Sterility Checks
Volume Checks
Qualitative Checks
Quantitative & Semi-Quantitative Recovery Procedures
Ready to use Media
Scenarios on Managing Quality Control for Media Preparation



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DETAILED COURSE CONTENT continued:

Test Methods

Documentation of Methods - Essential Elements of a Microbiological Method (based on AS 2929 - 1990)
Proficiency Testing – Verification of Test Results
Scenarios Associated With Operator Performance
Verification and Validation of Methods
Scenarios Associated With Test Methods

Measurement Uncertainty

Quality Control of Media

Revision
Quantitative Recovery on Solid Enumeration media

Operators authorised to sign test reports

Becoming an operator authorised to sign test reports

Verification and Validation of Methods

Designing and Performing a Comparative Validation Study

Our teaching approach is centred on a highly interactive workshop format. The course incorporates the NATA accreditation requirements, in particular the Supplementary Requirements for Biological Testing.

WHAT SOME ATTENDEES HAVE SAID ABOUT THE COURSE:

- "Excellent. I've learnt a lot! Can't wait to share with my co-workers."
- "Quite good, although mentally drained by the end."
- "Five out of Five!"
- "I would highly recommend for lead assessors with no microbiology background. Also would benefit those with micro background. 10/10"
- "I would like to thank Stuart for his knowledge and teaching ability. I found I was able to grasp concepts that I hadn't in the past due to the way he explains things."
- "Extremely wonderful and helpful."

We can also present a **customised training course** specifically tailored for your organisation. To discuss all your training needs, contact us:

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