



MiChem Dynamics
LEADING CHANGE

IMPLEMENTATION OF ISO 11133:2014 – MICROBIOLOGY OF FOOD, ANIMAL, FEED AND WATER – PREPARATION, PRODUCTION, STORAGE AND PERFORMANCE TESTING OF CULTURE MEDIA TRAINING

This course aims to give an understanding of the protocols to be implemented for the quality assurance of culture media and the requirements for the preparation and performance testing of culture media intended for the microbiological analysis of food, animal feed, and samples from the food or feed production.

It is aligned with the ISO 11133:2014 (Amd 1 2020) Microbiology of food, animal feed and water -Preparation, production, storage, and performance testing of culture media.

ISO 11133:2014 should be implemented by all microbiological laboratories preparing culture media for their own use, commercial bodies producing and/or distributing ready-to-use or semi-finished reconstituted or dehydrated media, and/or non-commercial bodies supplying media to third parties.



THE COURSE WILL RUN OVER A PERIOD OF 3 DAYS

LEARNING OUTCOMES:

- Understand the underlying theoretical structure of quality control and performance testing as described in ISO 11133:2014.
- Implement additional requirements including:
 - Quality assurance documentation
 - Storage of culture media
 - Preparation, incubation, and disposal of culture media
 - Shelf-life determination
- Understand through practical examples performed in the laboratory how to conduct performance testing for various types of culture media.

WHO SHOULD ATTEND THIS COURSE:

- Laboratory / Quality managers
- Analysts / technicians
- Technical signatories

MINIMUM ENTRY REQUIREMENTS:

- Fluency in English writing and reading skills

TUITION:

- Training material included (English)
- Certificate of attendance or competence (based on outcome of assessment) will be issued on successful completion of training.

COURSE OVERVIEW:

DAY 1

- Introduction and important terminology
- Quality assurance management (ISO 11133:2014 Clause 4)

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COURSE OVERVIEW:

- Documentation
- Storage
- Laboratory preparation of media
- Shelf-life of prepared media
- Preparation for use, incubation, and disposal
- Microorganisms for performance testing (ISO 11133:2014 Clause 5)
- Quality control and performance testing (ISO 11133:2014 Clause 6)
 - General requirements
 - Physical and chemical quality control
 - Microbiological quality control
 - General requirements for microbiological performance testing
 - Performance evaluation and interpretation of results
 - Confirmation media and reagents
- Performance testing of solid culture media (ISO 11133:2014 Clause 7)
 - Methods for quantitative tests
 - Methods for membrane filtration
 - Methods for qualitative tests
- Performance testing of liquid culture media (ISO 11133:2014 Clause 8)
 - Quantitative tube method for testing of liquid enrichment media
 - Qualitative tube method for testing of selective liquid media
 - Qualitative single tube method for testing of liquid media
- Performance testing of diluents and transport media (ISO 11133:2014 Clause 9)
 - Methods for diluents
 - Methods for transport media
- Traceability and documenting the results (ISO 11133:2014 Clause 10)

DAY 2

- Practical application of learnings in the laboratory using various types of culture media

DAY 3

- Practical application of learnings in the laboratory using various types of culture media

