



\*QUALITY & STATISTICS

# \* QuoData Web-Seminar

## Quality Assurance in Microbiology

# '22

Verification, evaluation of measurement uncertainty and in-house validation for quantitative & qualitative microbiological test methods

Web-Seminar for laboratories in the field of microbiology

Relevant standards: ISO 16140 series & ISO 19036

8 – 10 November 2022

## Quality assurance in microbiology – firsthand expertise

Web-Seminar participants learn how to validate and verify test methods according to **ISO 16140** and how to evaluate measurement uncertainty according to **ISO 19036**. In this way, participants acquire indispensable skills for meeting the requirements of the **ISO/IEC 17025:2017**.

The **ISO 16140** series provides modern designs and approaches for validation and verification, which take into account the unique challenges of microbiological testing, in particular in the field of food microbiology. The **ISO 19036** standard for the determination of measurement uncertainty is closely related to **ISO 16140**.

As ISO standards, these modern standards are of global relevance. Especially in Europe they will quickly find their way into practice.

This Web-Seminar combines theory and practice and discusses real examples. The speakers will provide key insights to help plan, implement and evaluate studies and interpret results.

### Target audience

The Web-Seminar series is intended for managers and staff of private and public testing laboratories in microbiology, in particular in food microbiology, as well as of research institutions using quantitative and qualitative microbiological testing methods such as:

- classical methods (e.g. plating methods)
- immunological methods (e.g. ELISA)
- molecular biological methods (e.g. PCR, LAMP)

The Web-Seminars is also relevant for interested scientists from the fields of environmental and agricultural sciences, veterinary medicine and hospital hygiene.

# Program

## Main Topics

### Day 1, 8 November 2022 Verification of microbiological test methods

- relevant performance characteristics: calculation, interpretation and assessment
- examples and exercises with MiBiVal

### Day 2, 9 November 2022 Evaluation of the measurement uncertainty of quantitative microbiological test results

- introduction and definitions
- **ISO 19036** approach for the evaluation of measurement uncertainty
- examples and exercises

## Day 3, 10 November 2022 In-house validation of microbiological test methods

- relevant performance characteristics: calculation, interpretation and assessment
- validation with/without reference method
- examples and exercises with MiBiVal

Registration is open until 25 October 2022

Please note!

### QuoData – Quality & Statistics

QuoData offers comprehensive consulting and innovative tools for the development, optimization, validation and quality assurance of measurement methods.

The QuoData team has more than 20 years of experience and regularly plans and analyses validation studies for its clients across the globe.

The Web-Seminar speakers are members of national and international committees for quality assurance, such as the working groups for the development of **ISO 19036** and the **ISO 16140** series. They will accompany you through the Web-Seminars and will be happy to answer all your questions.

Language\_ English

Dates\_ 8 – 10 November 2022

Duration\_ The Web-Seminar takes place over three consecutive days. The content of the lecture is around 5-6 hours a day. There is a longer break to work on the exercises.

Registration\_ You can register, using our online form: <https://quodata.de/registration.php>  
Feel free to register for all three days or pick the days which are most interesting to you.

Or register directly via Rebecca Liu:  
[liu.yue@quodata.de](mailto:liu.yue@quodata.de)  
Tel.: +49 - (0)3 51 - 40 28 86 7 0

### Participation Fee

The participation fee is **€ 450** per day and participant (plus VAT). The total price for the Web-Seminar is **€ 1350** per participant (plus VAT). Each day can be booked separately. If the event is canceled by QuoData GmbH the fees will be refunded in full.

Further claims against QuoData are excluded. QuoData reserves the right to cancel or reschedule the Web-Seminar due to insufficient demand. By submitting our online form, you are making a binding registration for participation. Fees associated with participation will be charged accordingly.

### Web-Seminar documents

A shortened version of the presentation slides will be sent to you before the start of the Web-Seminar. You will receive a certificate of participation per E-Mail after completing the Web-Seminar.

The cost of the documents, and the certificate of attendance are included in the participation fee.

### Technical Requirements

To participate you need a PC or laptop with a secure internet connection, a headset with a microphone and a webcam.

You will receive the link to your booked Web-Seminar, including instructions on dialing in, by email a few days before the start of the Web-Seminar.

### MiBiVal - our microbiology Web-Application

In this Web-Seminar participants will gain access to our web-based app **MiBiVal** for in-house validation and verification of quantitative microbiological methods. The app includes tools for designing and conducting method validation and verification studies, following the protocols of **ISO 16140 Parts 2, 3 and 4**. **MiBiVal** presents results graphical and tabular form and interprets evaluated data.

After the Web-Seminar the app can be used for a limited period of time.