

Speakers



Dr Jörg Degen
Formerly Head of Microbiology
at ITM, Germany



Dr Daan de Gouw
MSD, The Netherlands



Dr Sven M. Deutschmann
Roche Diagnostics, Germany



Nicole Klüh
Labor LS, Germany



Dr Sebastian Thölken
Lonza Stein, Switzerland



Radhakrishna Tirumalai,
MSD, USA

Bioburden

Regulatory Expectations and Practical Experiences
- Lessons and Panel Discussion -



Live Online Training on 15/16 June 2023



Highlights

- USP <1115>, USP<1229.3> and European Regulatory Requirements
- Assessment of Bioburden Excursions in Non-Sterile Products
- Bioburden for Sterile Operations
- Colony Counting and Bioburden of Combination Products
- Microbial Control Strategy for Biopharmaceutical Manufacturing
- Bioburden and ATMPs

Background

In their Pharmacopoeial Forum 39(4) in 2014, the USP published the draft of chapter <1115> “*Bioburden Control of Nonsterile Drug Substances and Products*”. The document outlines a risk-based approach to the control of potential contamination in non-sterile product manufacturing.

But “bioburden” is not only a topic of non-sterile products. Annex 1 of the European GMP Guideline requires “*The bioburden should be monitored before sterilisation. There should be working limits on contamination immediately before sterilisation, which are related to the efficiency of the method to be used. Bioburden assay should be performed on each batch for both aseptically filled product and terminally sterilised products.*”

And last but not least, bioburden testing for medical devices made or used in the USA is governed by Title 21 of the Code of Federal Regulations and worldwide by ISO 11737.

The current developments determine us to address this topic in a special workshop session to look at this from various angles, provide you with information about the regulatory background and practical examples and strategies for bioburden control. Pharmacopoeial experts, representatives of pharmaceutical quality control and from testing laboratory will show you what are the challenges of the bioburden control strategy and how they implemented an adequate control in their companies.

Target Audience

This Live Online Training is of interest to professionals in microbiology from

- Pharmaceuticals and Biopharmaceutical Companies
- Academic Research Institutions
- Government Agencies
- Contract Service Laboratories

who are involved in

- Research and Development
- Validation
- Microbiological QA and QC

Moderator

Dr Sven M. Deutschmann, Roche, Chair ECA Pharmaceutical Microbiology Working Group
Axel H. Schroeder, Concept Heidelberg

Objective

During this Live Online Training, the following contents and questions should be addressed by presentations and panel discussions. Considering that, panelists from the fields non-sterile products, sterile products, combination products as well as biopharmaceutical APIs and HCT/Ps will be on hand for the training.

General Information

- Bioburden control strategy dependent of the lifecycle phase of the product (so-called “Phase-appropriate control strategy”)
 - Early clinical phase
 - Late clinical phase
 - Commercial phase
- Test for “specified microorganisms” and / or “objectionable microorganisms”?
 - Raw materials
 - In-process-control samples
 - Drug substance
 - Drug product
 - Final product
- Refresher on biofilms including case studies
 - Biofilm biology
 - How to recognize biofilms in bioburden trends
 - Lessons learned from a company

Testing

- Where is bioburden tested in processes?
- Predefinition of bioburden and / or endotoxins levels for raw materials
- Assessment of the presence / absence of “objectionable microorganisms” in your raw materials?
- What are the methods in use?
 - TAMC
 - TYMC
 - MPN
 - Any other bioburden testing method
 - Rapid micro methods
- Is it necessary to have a limited shelf life for bioburden samples?
- How to treat so called “missing bioburden” results?

Limits

- Predefined bioburden and / or endotoxins levels for your upstream / fermentation processes (if applicable) and downstream processes or for the whole process
- What will be preferred? A two-tiered-control system (warning and alert level) or a three-tiered control system (warning and alert level AND rejection level)?

- Methodologies in use to define the limits, e.g.
 - how many data points are required to define the limits
 - philosophy for new processes / new manufacturing processes without having experience of process capabilities

Deviation Management

- Do you perform ID?
 - If YES, when:
 - Each colony
 - Only in case of an excursion of limits / level
 - What's the preferred ID technique?
- Measures in case of an excursion of a limit

USP <1115> and USP<1229.3>

- Bioburden control of non-sterile drug substances and products – USP and industrial view
- Bioburden monitoring, USP<1229.3> applies to sterile products

Presentation list:

- European Regulations
- USP<1115> Bioburden Control of Non-Sterile Drug Substances and Products
- Refresher on biofilms including case studies
- Microbial Control Strategy for Biopharmaceutical Manufacturing
- Microbial Counts and Bioburden of Combination Products: Guidelines, Specifics and Case Studies
- Bioburden for Sterile Operations
- Bioburden Monitoring, USP<1229.3> applies to Sterile Products
- Bioburden Testing of Modern Medicinal Products- Practical Experience of a Contract Lab
 - Various types of bioburden testing
 - Technical challenges: Non-Steriles up to ATMP
 - Practical Examples - from classic Pharmaceutical Products to HCT/Ps
- Assessment of Bioburden Excursions in Non-Sterile Biologics Manufacturing Processes

Speakers

Dr Joerg Degen, Climate Change Manager, formerly Head of Microbiology at ITM

Joerg Degen studied Biology at the University of Wuerzburg. He obtained his PhD at the Fraunhofer Institute for Interfacial Engineering and Biotechnology (IGB) Stuttgart. From 2006 until 2020 he worked for Eurofins/ BSL Bioservice as study director for microbiological testings of pharmaceuticals and medical devices and later as the head of the Microbiology Laboratory. In 2020 he joined ITM as Head of the Microbiology Laboratory. In 2022 he became Climate Change Manager at the mayor's office of Planegg, Bavaria.

Dr Daan de Gouw, Senior Specialist, Manufacturing & Quality, CoE Microbiology, MSD, The Netherlands

Daan de Gouw studied Medical Biology at the Radboud university of Nijmegen and got his PhD in Medical Microbiology at the Radboud University Medical Center. After an assistant project lead position within the Discovery & Technology team at MSD Animal Health, he joined the Global Center of Expertise Microbiology, The Netherlands, in which he currently has a role as Senior Specialist. In his current role, he predominantly supports MSD sites with microbiological problems but also supports rapid microbiological method deployment in the QC laboratories of MSD.

Dr Sven M. Deutschmann, Roche Diagnostics GmbH, Germany

Sven M. Deutschmann studied biology at the University of Brunswick. In 1995 he joined Roche Diagnostics GmbH. Currently, he is responsible for the Biological Quality Control including microbiological, molecular and cell biological analytics. Beginning of 2012 he was appointed as Global Head of a Corporate Function called "Method Management and Technology" within the Biologics Operational Unit of Roche with special focus on PCR-based technologies and Rapid Microbiological Methods. Besides his local and global responsibilities, he is a member of several microbiological expert groups, e.g. the Expert Group 1 "Biological Methods and Statistical Analysis" of the European Pharmacopeia Commissions.

Nicole Klüh, Labor LS, Bad Bocklett, Germany

Nicole holds an B.Sc. in Food Technology and an M.Sc. in food processing. She is working at Labor LS as instructor in the department for non-sterile samples.

Dr Sebastian Thölken, Lonza Stein, Switzerland

Sebastian studied Pharmacy at the University of Freiburg. 2011 to 2015 he worked as scientist at the Albert-Ludwigs-Universität Freiburg/Breisgau. In 2015 he joined Novartis. Until 2023 he was Process Expert Microbiology, MS&T Steriles there. In 2023 he came to Lonza as Principal Scientist Microbiology DPS Growth Project in the department of Quality Control Drug Product Services.

Radhakrishna Tirumalai, MSD, formerly at USP, USA

Dr Tirumalai has been at the USP from 2003 until 2022 as Principal Scientific Liaison-General Chapters in the Science Division. He was the Liaison to the USP Expert Committee on Microbiology. He worked with the industry, regulatory agencies and other external science-based organizations in the development and revision of General Chapters. Dr Tirumalai has represented USP on PDA expert task forces and committees related to Microbiology and Sterility Assurance. Currently, he is working at MSD (US Merck) in a global position.

Reservation Form (Please complete in full)



Bioburden - Regulatory Expectations and Practical Experiences, Live Online Training on 15/16 June 2023

Title, first name, surname

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- Cancellation until 3 weeks prior to the conference 25 %

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Date of the Live Online Training

Thursday, 15 June 2023, 10.00 – 17.30 h CEST
Wednesday, 16 June 2023, 09.00 – 13.00 h CEST

Technical Requirements

We use Webex for our live online training courses and webinars. At <https://www.gmp-compliance.org/training/online-training-technical-information> you will find all the information you need to participate in our trainings and you can check if your system meets the necessary requirements to participate. If the installation of browser extensions is not possible due to your rights in the IT system, please contact your IT department. Webex is a standard nowadays and the necessary installation is fast and easy.

Fees (per delegate, plus VAT)

ECA Members € 1,690

APIC Members € 1,790

Non-ECA Members € 1,890

EU GMP Inspectorates € 945

The fee is payable in advance after receipt of invoice.

Registration

Via the attached reservation form, by e-mail or by fax message. Or you register online at www.gmp-compliance.org.

Presentations/Certificate

The presentations will be made available to you prior to the Live Online Training as PDF files. After the event, you will automatically receive your certificate of participation.

Conference language

The official conference language will be English.

Your Benefit: Internationally Acknowledged Certificate from ECA Academy

The EU GMP Guide requires: „... All personnel should be aware of the principles of Good Manufacturing Practice that affect them and receive initial and continuing training,...“. This is why you receive an acknowledged participant certificate, which lists the contents of the seminar in detail and with which you document your training.

Organisation and Contact

ECA has entrusted Concept Heidelberg with the organisation of this event.

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