

Workshop:

Chemistry Manufacturing and Controls in fostering implementation of vaccine release test methods aimed at reducing animal use (3Rs)

The Chemistry, Manufacturing & Controls (CMC) landscape of vaccines and biologics is undergoing rapid development and constant change. Complex processes yielding complex products such as biologics and biopharmaceuticals demand numerous, non-compendial, and sometimes complex QC test methods to confirm manufacturing consistency and product quality.

It is important for a manufacturer to have an effective CMC regulatory compliance strategy that can meet both local and international requirements and expectations.

ICH regulatory guidance's have been adopted broadly and are driving the biopharmaceutical industry to a higher performance, including Quality by Design (QbD), Quality Risk Management (QRM) and Pharmaceutical Quality System (PQS).

The first part of this workshop will provide an overview of the international requirements and expectations for test method validation of such assays, including in-process, release and stability assays commonly used by QC in biological and biopharmaceutical manufacturing. E.g.

- cell-based potency bioassays,
- immunochemical binding impurity assays
- adventitious agent assays

The second part of the workshop (days 2 and 3) will focus on alternative testing methods developed and standardized with view at reducing or replacing the use of laboratory animals. The objective of this 3Rs part of the workshop is to initiate a DCVMN activity targeted at encouraging the implementation of alternative testing methods among vaccine manufacturers in developing countries for selected priority vaccines.

Target audience: professionals performing, supervising, managing, audit, or overseeing the validation of test methods for the quality control of vaccines and biopharmaceutical products, including professionals working in Analytical Development, Quality Control, Quality Assurance, and Validation groups. Senior Management, Project Managers, Regulatory Affairs, responsible for the strategic alignment of local and global operations, as well present and future operations.



DAY 1, 10 June 2019				
Time	Topic	Speaker		
7:30 – 8:30	Breakfast for non-residential participants			
8:30-9:00	Registration	DCVMN		
9:00-9:30	Welcome and introductions Objectives, Initiatives and expected outcomes	DCVMN		
9:30-10:00	Introduction to aAalytical Method Validation for Vaccines, Biopharmaceuticals and Other Bioproducts	D. Wilkinson NIBSC		
10:00-10:30	Coffee Break	Group photo		
10:30-11:30	Validation and re-validation of assays	D. Wilkinson NIBSC		
11:30-12:30	Group exercise Case studies & assays validation	Working Groups		
12:30-13:30	Lunch Break			
13:30-14:30	Case studies and feedback	Working Groups		
14:30-15:30	Strengthening QC labs and efforts on building QC lab networks	S. Yadlapalli USP		
15:30-16:00	Coffee Break			
16:00-17:00	Types of stainless steel and welding controls applied in the pharmaceutical industry for product-contact areas.	S. Simon Biozeen		
17:00-17:30	Bill Gates video & discussion			
17:30	Adjourn			



DAY 2, Tuesday 11 June 2019				
Time	Topic	Speaker		
7:30-8:30	Breakfast for non-residential participants			
8:30 - 9:00	Introduction to the 3Rs initiatives:	N. Dellepiane for		
	Objectives and expected outcomes	DCVMN		
9:00 - 9:30	Importance of 3Rs in lot release testing for vaccines.	A.Vissala		
	Progress in acceptance of alternative assays	CDSCO		
9:30 – 10:00	Q&A			
10:00-10:30	Coffee Break	Group photo		
10:30-11:00	USP Pharmacopeia activities in the vaccine area	D. Saha USP Pharmacopoeia		
11:00-11:30	Q&As on Pharmacopoeia session Discussion	All participants		
11:30-12:00	Alternative tests for DTP containing vaccines: an overview	C. von Hunolstein. Istituto Superiore di Sanitá		
12:00-12:30	Collaborative study for the establishment of harmonized Hib testing methodology	C. von Hunolstein. Istituto Superiore di Sanitá		
12:30-13:30	Lunch			
13:30-14:00	Experience with harmonized Hib testing methodology in India	S. Singh NIB		
14:00-14:30	Q & As on Hib vaccine testing Discussion	All participants		
14:30- 15:00	3R methods applicable to control the quality of	G. Singh		
	tetanus and diphtheria vaccine components	Bharat Biotechnology		
15:00-15:30	3R methos applicable to control the quality of tetanus	S. Goel		
	and diphtheria vaccine components	Serum Institute of India		
15:30-16:00	Coffee Break			
16:00-16:30	Alternative testing methods for pertussis vaccine	C. von Hunolstein. Istituto Superiore di Sanitá		
16:30-17:00	Alternative testing methods for pertussis vaccine	S. Goel Serum Institute of India		
17:00-17:30	Q & As on D, T and P containing vaccines testing Discussion	All participants		
17:30	Adjourn and Welcome Reception	All participants		



DAY 3, Wednesday 12 June 2019				
Time	Topic	Speaker		
7:45 – 8:45	Breakfast for non-residential participants			
9:00-10:00	WHO initiative on alternative testing method for rabies vaccine: international collaborative study design	U. Rosskopf WHO (by video)		
10:00-10:30	Considerations on alternative testing for rabies vaccine I	T.M. Chozhavel Rajanathan Zydus Cadila		
10:30-11:00	Coffee Break			
11:00-11:30	Considerations on alternative testing for rabies vaccine II	S. Goel Serum Institute of India		
11:30- 12:30	Q & A on rabies vaccine testing Discussion on the collaborative study design	All participants		
12:30-13:30	Lunch Break			
13:30-15:30	Establishing an initiative to move forward the use of alternative test methods	Working groups on specific vaccines: Rabies Pertussis DT Others?		
15:30-16:00	Coffee break			
16:00-17:00	Feedback and joint discussion			
17:30	Conclusion and Adjourn			



DAY 4, Thursday 13 June 2019				
Time	Topic	Speaker		
7:45 – 8:45	Breakfast for non-residential participants			
9:00-10:00	Presentation of proposals by working groups: how to accelerate lot release and reduce animal use	Working groups		
10:00-10:30	Final discussions and agreement on next step(s)	All participants		
10:30-11:00	Coffee Break			
11:00-11:30	Application of combo filling line for vaccine sterile production	P.Peng Tofflon, India		
11:30- 12:00	Q & A and adjourn	All participants		
12:00-13:30	Lunch	All participants		
13:30	Departure individually			