

PDA EU00018 CMC Regulatory Compliance for Biopharmaceuticals

Thursday, 22 September 2022		
09:00	Welcome and Introduction	
09:10	CMC Regulatory Compliance is Challenging for Biopharmaceuticals	
	 Discussion of the increasing diversity of biopharmaceuticals and the CMC regulatory challenges that they present 	
10:30	Coffee Break	
11:00	 Understanding the similarities and differences in CMC regulatory compliance between FDA and EMA for biopharmaceuticals Biopharmaceuticals are not chemical drugs – CMC regulatory compliance consequences of the major differences 	
12:30	Lunch Break	
13:30	Risk-Managed Biopharmaceutical CMC Regulatory Compliance	
	Strategy	
	 Three (3) interactive components that protect patients – CMC, cGMPs, and Quality Systems What the 'minimum CMC regulatory compliance continuum' 	
	means for biopharmaceuticals during clinical development	
15:00	Coffee Break	
15:30	 Effective CMC risk-management – the five (5) key design elements 	
	 Applying the principles of QbD and QRM to biopharmaceutical manufacturing 	
17:00	End of Training Course Day 1	



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09:00	Applied Risk-Managed Biopharmaceutical CMC Regulatory
	Compliance Strategy – Cell Bank through Drug Substance
	 CMC strategy applied across the manufacturing process from
	cell banks to protein production to purification to drug
	substance
	 The necessity of confirming cell bank clonality and genetic
40.00	stability
10:30	Coffee Break
11:00	 Importance and limitations of small-scale studies for biopharmaceuticals
	 Adequate and appropriate control of the biopharmaceutical
	manufacturing process from early clinical development into the
	marketplace
	 Extra CMC challenges of antibody-drug conjugates (ADCs)
12:30	Lunch Break
13:30	Applied Risk-Managed Biopharmaceutical CMC Regulatory
	Compliance Strategy – Bulk Drug Substance through Administered
	Drug Product
	CMC strategy applied across the manufacturing process from
	bulk drug substance to formulation to drug product filling to
	final drug product to administered drug product
	 Formulation and container-closure challenges for
	biopharmaceuticals – Impact of components on the
	biopharmaceutical (e.g., protein aggregation) and impact of the
	delamination)
15:00	Coffee Break
15:30	Demonstrating Biologic Comparability After Manufacturing Process
	Changes
	• Three (3) key design elements of an effective risk-managed
	comparability exercise
	 Comparability contracts with regulatory authorities
17:00	End of Training Course