

Event Agenda

Filtration Processes in the Pharmaceutical and Biopharmaceutical Industry Training Course (PDA 514)

DAY 1	
8:30	Welcome and Introductions
9:00	Introduction to Filters and Terminology (FG)
9:30	 Membrane Materials and Retention Mechanisms (FG) Differences in Manufacturing Differences in Polymers Adsorptive Properties of Different Polymers Sieve vs Adsorptive Retention Influences on Retentivity
10:15	Break
10:30	Liquid Filtration Prefiltration (AL) Prefilter Construction and Materials Necessity of Prefilters Difference Between Pre- and Final Filter Liquid Filtration Final Filter (AL) Final Filter Construction and Materials Retention Mechanisms Important Aspects to Consider Applications
12:00	Lunch
13:00	Lab - Membrane Adsorption
14:00	Break
14:30	Air Filtration (AL) Regulations Separation Mechanisms Sizing Applications
16:00	Q&A
16:30	End of Day 1
DAY 2	
8:30	Integrity Testing (Liquid Filters) (AL) Destructive/Non-Destructive Test Principle of Bubble Point Test Principle of Diffusive Flow Test Principle of Pressure Drop Test Automatic Integrity Testing Product Specific Integrity Testing
10:00	Break
10:15	Lab – Integrity Testing Liquid Filters Color Syringe Bubble Point Exercise/Form Manual Diffusion Test Manual Bubble Point Test Automated Diffusive Flow/Bubble Point Troubleshooting – Failure Mode Simulations



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12:00	Lunch
13:00	Integrity Testing (Gas Filters) (AL) • Destructive/Non-Destructive Tests • Feature and Benefits of the Tests
13:30	Break
14:00	Lab – Integrity Testing of Gas Filters • Water Intrusion Test • Failure Mode Simulations
16:00	Q&A
16:30	End of Day 2
DAY2	

DAY 3	
8:30	Trouble Shooting Exercise
10:00	Break
10:30	Filter Evaluation, Choices, and Sizing (FG) • Filterability Trials • 47 mm vs Pleated Devices • Flow vs Throughput Testing
12:00	Lunch
13:00	Lab – Filterability
15:00	Break
15:30	Conclusion
16:30	End of Day 3

DAY 4	
8:30	Validation of Filters (FG) • Filter Qualifications • FDA Requirements/Guidance • Viability/Bacterial Retention Test • Chemical Compatibility • Adsorption • Extractable/Leachable • Particulates
10:00	Break
10:30	Validation of Filters (FG) Bacterial Retention Test Methods and Options Bacterial Retention Test Performance
12:00	Lunch



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13:00	Filter Handling and Care (AL) • Documentation • Steaming
14:00	Troubleshooting Final Discussions and Questions
15:00	End of Event