

Standards Manager Web Standards List
PDA-Parenteral Drug Association

Id	Number	Title	Year	Organization	Page
1	TR 89	Strategies for Vaccine Development and Lifecycle Management	2023	PDA	
2	TR 90	Contamination Control Strategy Development in Pharmaceutical Manufacturing	2023	PDA	
3	TR 88	Microbial Data Deviation Investigations in the Pharmaceutical Industry	2022	PDA	
4	TR 13	Fundamentals of an Environmental Monitoring Program	2022	PDA	
5	TR 41	Virus Filtration	2022	PDA	
6	TR 65	Technology Transfer	2022	PDA	
7	TR 60-3	Process Validation: A Lifecycle Approach Annex 2: Biopharmaceutical Drug Substances Manufacturing	2021	PDA	
8	TR 39	Guidance for Temperature-Controlled Medicinal Products - Maintaining the Quality of Temperature-Sensitive Medicinal Products through the Transportation Environment	2021	PDA	
9	TR 85	Enhanced Test Methods for Visible Particle Detection and Enumeration on Elastomeric Closures and Glass Containers	2021	PDA	
10	TR 86	Industry Challenges and Current Technologies for Pharmaceutical Package Integrity Testing	2021	PDA	
11	TR 87	Current Best Practices for Pharmaceutical Glass Vial Handling and Processing	2021	PDA	
12	TR 84	Integrating Data Integrity Requirements into Manufacturing & Packaging Operations	2020	PDA	
13	TR 13-2	Fundamentals of an Environmental Monitoring Program Annex 1: Environmental Monitoring of Facilities Manufacturing Low Bioburden Products	2020	PDA	
14	TR 82	Low Endotoxin Recovery	2019	PDA	
15	TR 80	Data Integrity Management System for Pharmaceutical Laboratories	2018	PDA	
16	TR 81	Cell-Based Therapy Control Strategy	2018	PDA	
17	TR 54-5	Quality Risk Management for the Design, Qualification, and Operation of Manufacturing Systems	2017	PDA	
18	TR 77	The Manufacture of Sterile Pharmaceutical Products Using Blow-Fill-Seal Technology	2017	PDA	
19	TR 74	Reprocessing of Biopharmaceuticals	2016	PDA	
20	TR 76	Identification and Classification of Visible Nonconformities in Elastomeric Components and Aluminum Seals for Parenteral Packaging	2016	PDA	
21	TR 56	Application of Phase-Appropriate Quality System and cGMP to the Development of Therapeutic Protein Drug Substance (API or Biological Active Substance)	2016	PDA	
22	TR 57-2	Analytical Method Development and Qualification for Biotechnology Products	2015	PDA	
23	TR 69	Bioburden and Biofilm Management in Pharmaceutical Manufacturing Operations	2015	PDA	
24	TR 70	Fundamentals of Cleaning and Disinfection Programs for Aseptic Manufacturing Facilities	2015	PDA	
25	TR 71	Emerging Methods for Virus Detection	2015	PDA	
26	TR 72	Passive Thermal Protection Systems for Global Distribution: Qualification and Operational Guidance	2015	PDA	
27	TR 54-4	Implementation of Quality Risk Management for Pharmaceutical and Biotechnology Manufacturing Operations: Annex 3: Case Studies in the Manufacturing of Biotechnological Bulk Drug Substances	2014	PDA	
28	TR 65	Technology Transfer	2014	PDA	
29	TR 66	Application of Single-Use Systems in Pharmaceutical Manufacturing	2014	PDA	
30	TR 67	Exclusion of Objectionable Microorganisms from Nonsterile Pharmaceuticals, Medical Devices, and Cosmetics	2014	PDA	
31	TR 68	Risk-Based Approach for Prevention and Management of Drug Shortages	2014	PDA	
32	TR 13	Fundamentals of an Environmental Monitoring Program	2014	PDA	
33	TR 3	Validation of Dry Heat Processes Used for Depyrogenation and Sterilization	2013	PDA	

34	TR 43	Identification and Classification of Nonconformities in Moulded and Tubular Glass Containers for Pharmaceutical Manufacturing	2013	PDA	
35	TR 33	Evaluation, Validation and Implementation of Alternative and Rapid Microbiological Methods	2013	PDA	
36	TR 60	Process Validation: A Lifecycle Approach	2013	PDA	
37	TR 62	Recommended Practices for Manual Aseptic Processes	2013	PDA	
38	TR 63	Quality Requirements for the Extemporaneous Preparation of Clinical Trial Materials	2013	PDA	
39	TR 64	Active Temperature-Controlled Systems: Qualification Guidance	2013	PDA	
40	TR 54-2	Implementation of Quality Risk Management for Pharmaceutical and Biotechnology Manufacturing Operation: Annex 1: Case Study Examples for Quality Risk Management in Packaging and Labeling	2013	PDA	
41	TR 54-3	Implementation of Quality Risk Management for Pharmaceutical and Biotechnology Manufacturing Operations: Annex 2: Case Studies in the Manufacturing of Pharmaceutical Drug Products	2013	PDA	
42	TR 57	Analytical Method Validation and Transfer for Biotechnology Products	2012	PDA	
43	TR 59	Utilization of Statistical Methods for Production Monitoring	2012	PDA	
44	TR 54	Implementation of Quality Risk Management for Pharmaceutical and Biotechnology Manufacturing Operations	2012	PDA	
45	TR 29	Points to Consider for Cleaning Validation	2012	PDA	
46	TR 22	Process Simulation for Aseptically Filled Products	2011	PDA	
47	TR 52	Guidance for Good Distribution Practices (GDPs) For the Pharmaceutical Supply Chain	2011	PDA	
48	TR 53	Guidance for Industry: Stability Testing to Support Distribution of New Drug Products	2011	PDA	
49	TR 47	Preparation of Virus Spikes Used for Virus Clearance Studies	2010	PDA	
50	TR 48	Moist Heat Sterilizer Systems: Design, Commissioning, Operation, Qualification and Maintenance	2010	PDA	
51	TR 49	Points to Consider for Biotechnology Cleaning Validation	2010	PDA	
52	TR 50	Alternative Methods for Mycoplasma Testing	2010	PDA	
53	TR 51	Biological Indicators for Gas and Vapor-Phase Decontamination Processes: Specification, Manufacture, Control and Use	2010	PDA	
54	TR 15	Validation of Tangential Flow Filtration in Biopharmaceutical Applications	2009	PDA	
55	TR 46	Last Mile: Guidance for Good Distribution Practices for Pharmaceutical Products to the End User	2009	PDA	
56	TR 44	Quality Risk Management for Aseptic Processes	2008	PDA	
57	TR 26	Sterilizing Filtration of Liquids	2008	PDA	
58	TR 14	Validation of Column-Based Chromatography Processes for the Purification of Proteins	2008	PDA	
59	TR 1	Validation of Moist Heat Sterilization Processes: Cycle Design, Development	2007	PDA	
60	TR 39	Guidance for Temperature-Controlled Medicinal Products - Maintaining the Quality of Temperature-Sensitive Medicinal Products through the Transportation Environment	2007	PDA	
61	TR 38	Manufacturing Chromatography Systems Postapproval Changes (ChromPAC): Chemistry, Manufacturing and Controls Documentation	2006	PDA	
62	TR 40	Sterilizing Filtration of Gases	2005	PDA	
63	TR 41	Virus Filtration	2005	PDA	
64	TR 42	Process validation of protein manufacturing. Parenteral drug Association	2005	PDA	
65	TR 3	Validation of Dry Heat Processes Used for Depyrogenation and Sterilization	2005	PDA	
66	TR 32	Auditing of Suppliers Providing Computer Products and Services for Regulated Pharmaceutical Operations	2004	PDA	
67	TR 36	Current Practices in the Validation of Aseptic Processing	2002	PDA	
68	TR 34	Design and Validation of Isolator Systems for the Manufacturing and Testing of Health Care Products	2001	PDA	
69	TR 33	Evaluation, Validation and Implementation of Alternative and Rapid Microbiological Methods	2000	PDA	
70	TR 27	Pharmaceutical Package Integrity	1998	PDA	
71	TR 25	Uniformity Analysis: Validation and In-Process Testing	1998	PDA	

72	TR 24	Current Practices in the Validation of Aseptic Processing	1997	PDA	
73	TR 17	Current Practices in the Validation of Aseptic Processing	1992	PDA	
74	TR 9	Review of Commercially Available Particulate Measurement Systems	1988	PDA	
75	TR 12	Siliconization of Parenteral Drug Packaging Components	1988	PDA	
76	TR 7	Depyrogenation	1985	PDA	
77	TR 3	Validation of Dry Heat Processes Used for Depyrogenation and Sterilization	1981	PDA	

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