



MULTI-STAGE CASCADE IMPACTOR

Multi-Stage Cascade Impactor designed for precise analysis of aerodynamic properties of inhaled fine particles, this advanced system includes a smart pump, pressure detector, cascade impactor, pre-separator (DPI), artificial larynx, and essential accessories. It meets the instrument qualification standards outlined in USP, Ph. Eur., and ChP 2020 for aerodynamic particle assessment.

APPLICATIONS

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- United States Pharmacopeia (USP) <601> Aerosols, Nasal Sprays, Metered-Dose Inhalers, and Dry Powder Inhalers
- European Pharmacopoeia (Ph. Eur.) 2.9.18: Preparations for Inhalation - Aerodynamic Assessment of Fine Particles
- Chinese Pharmacopoeia (ChP) 2020: Inhalation Product Testing
- ISO 20072: Aerosol Drug Delivery Device - Methods of In Vitro Testing
- ICH Guidelines for Inhalation Product Evaluation

FEATURES

1. Contains 7-stage impactors and a micro-orifice collector (MOC). The design allows easy access to collect samples from collection cups and prepare for the next test.
2. Features 8 removable collection cups for effortless cleaning and replacement.

- 3. Suitable for testing MDI, spray, and nebulizer devices. DPI testing can be conducted with a pre-separator that efficiently removes coarse particles of 10-15 microns.
- 4. The collection cup serves as the impact surface, placed on a tray directly beneath the nozzles to facilitate sampling.

TECHNICAL SPECIFICATIONS

Stage	Nozzle Diameter (mm)	Cutting Diameter (µm)			
		15L/min	30L/min	60L/min	100L/min
Stage 1	14.30±0.05	14.10	11.76	8.06	6.12
Stage 2	4.88±0.04	8.61	6.40	4.46	3.42
Stage 3	2.185±0.02	5.39	3.99	2.82	2.18
Stage 4	1.207±0.01	3.30	2.30	1.66	1.31
Stage 5	0.608±0.01	2.08	1.36	0.94	0.72
Stage 6	0.323±0.01	1.36	0.83	0.55	0.40
Stage 7	0.206±0.01	0.98	0.54	0.34	0.24
Micro-orifice collection (MOC)	about 0.070	0.70	0.36	0.14	0.07



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