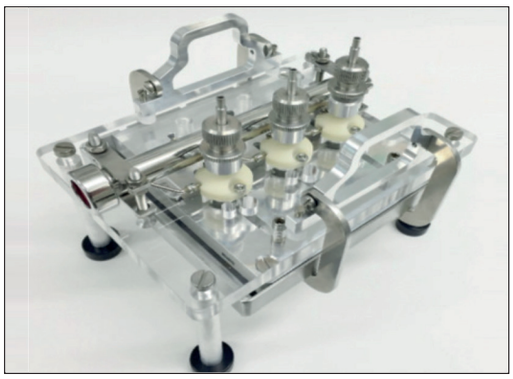
XposeALI® Exposure Module

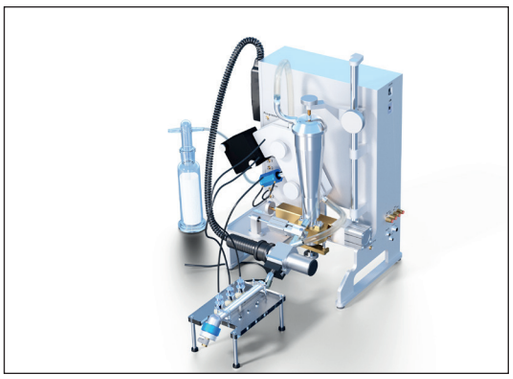
Art. No.: PIEMali1

Inhalation Sciences

Applications

With XposeALI® connected to PreciseInhale living cells can be exposed to aerosols in an air-liquid interface (ALI).



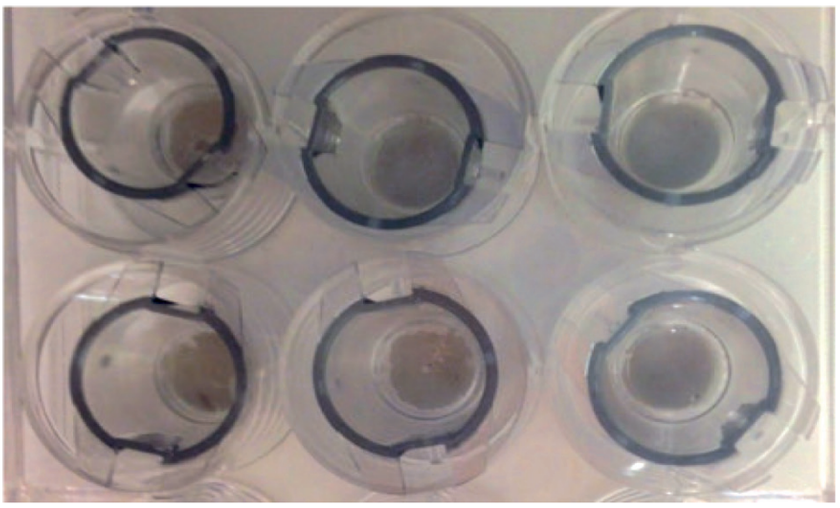


Features

- Cell exposures with aerosol generated from dry powder, inhaler or nebulized solution
- Beneficial construction avoiding aerosol exposure of cell culture media and cell culture insert walls
- No solvent or excipients needed at exposure; pure API or other material of choice can be delivered directly to the cell culture

Benefits

- Lung-like exposure conditions
- Evenly deposited particles over the cell surface
- Cell exposure with only the substance of interest
- Aerosol deposition on cells, not on insert walls or in the media



Even deposition of Diesel Exhaust Particles on cell culture surfaces. Jie *et al*. Plos One 2017.

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Technical specifications

Xpose*ALI* exposure unit	18 x 12 x 13 cm (W x D x H)
Weight	1 kg
Control box	60 x 25 x 40 cm (W x D x H)
Weight	5 kg
Verified exposure modules	Dry powder aerosol generator
Suitable exposure object	Any cells cultivated in Transwell inserts
Exposure flow rate	50 – 200 mL/min
Top flow rate	2 – 10 mL/min (the flow rate over the cells)
Consumables	6 mm GF/A filters x 400 (PICf6x400)
	25 mm GF/A end-filters x 100 (PICf25x100)
	Xpose*ALI* dose finding glasses x 500 (PICaligx500)
	Xpose*ALI* transwell inserts (Falcon) x48 (PICalitix48)
	Xpose*ALI* 12-well multiwell (Falcon) x50 (PICalimwx50)
	Humidifier Paper Inserts, 300 mL holding chambers x 30 (PIChphcx30)

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TechSpec XposeALI.pdf
Version 1.0