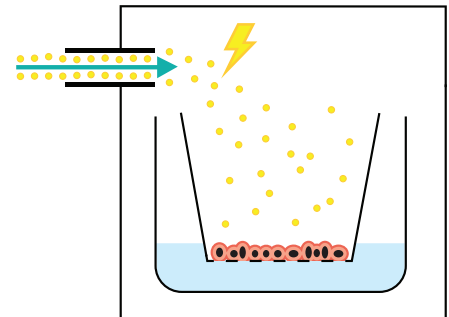


Integrated Cell Exposure

Enabling air liquid interface (ALI) cell exposure

Combine your DSI aerosol generation solutions with MedTec's CelTox Sampler ALI exposure platform for a comprehensive air liquid interface (ALI) cell exposure research solution.



● ALI Cells
 - - Microporous Membrane
 → Aerosol Flow

MedTec's CelTox Sampler Key Advantages

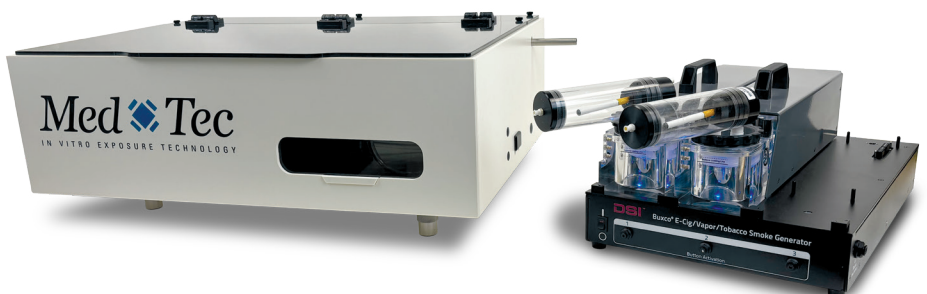
- Temperature and humidity environment control, crucial for proper cell exposure, viability, and deposition.
- Horizontal exposure technique, avoiding individual nozzles while still maintaining excellent distribution and deposition properties.
- Optional electrostatic precipitation for improved particle deposition.
- Compatible with various multi-well insert formats and proprietary multi-well plates with an optimized distance between the cells and the aerosol flow path.

Three Standard Configurations Available

EVT (e-cig, vape and tobacco) Smoke Generation

The popular EVT has various user-friendly features including:

- Disposable bellows to keep smoke from mechanism and quick cleaning
- Three independent smoke stations enabling multiple smoke exposures simultaneously
- Software controlled puff profile
- ISO standard
- Button activation
- Flow regulation
- and much more!



Vibrating mesh, liquid aerosol generation

The budget friendly aqueous aerosol generation provides mixing, multi-nebulizer operation, aerosol output control as well as a flow source and standalone operation.



Inhalation tower aerosol chamber sampling

Precisely control and sample aerosol environment and sample into ALI cell exposure from one or more of the ports, while maintaining translation between *in vivo* and *in vitro*, as well as sampling and cell exposure conditions.



Applications

- Tobacco, Alternative Nicotine Products, and Therapeutic or Recreational Inhalents Research
 - Cigarette, Electric Cigarette, and Vaping Smoke
 - Cannabinoids, Opiates, and other Psychoactive Inhalants
- Environmental Research
 - Agrochemicals such as Pesticides, Fertilizers and Soil Conditioners
- Respiratory Health and Diseases Research
 - Asthma, COPD, Bronchitis, Emphysema, Cystic Fibrosis, ARDS, Viral and Bacterial Infections, among others
 - Mucociliary Clearance and Dysfunction, Inflammation, Lung Slices
- Pharmaceutical Research
 - Drug Discovery and Drug Delivery
 - Safety Pharmacology, Toxicology and PK studies

For more information
on the MedTec system,
scan the QR code below



or feel free to email
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