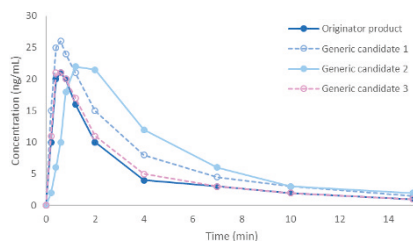




The power of precision—early on

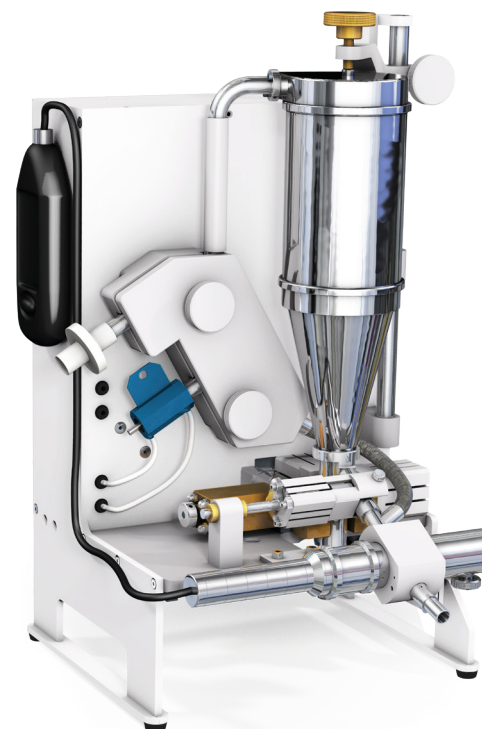
DissolvIt® absorption profiles of three generic candidates versus the originator product.

DissolvIt®, PrecisInhale's unique *in vitro* simulation module, is a genuine breakthrough in IVVC. It delivers highly predictive dissolution and absorption data that enables the early identification and ranking of Drug Candidates.



PrecisInhale® The power of preclinical precision

PrecisInhale® aerosol generator delivers powerful, precise, predictive data—*in vitro*, *ex vivo* and *in vivo*—early on. Its extensive range of high-precision exposure modules minimizes errors, reduces risk and accelerates drug development.



<10%

Minimize standard deviation

Generates data with a typical standard deviation of less than 10%—compared to up to 100% using conventional methods

100 mg

Low substance consumption

As little as 100 mg or less of test substance can run a complete PK study



Same aerosol across all exposure modules (*in vitro*, *in vivo* and *ex vivo*)

Minimizes translational errors and generates predictive, comparative data



Quality not quantity

Our advanced *in vitro* modules, plus one-animal-at-a-time methodology, builds control and precision into experiments, with precise doses—and exceptionally clear data



Turn 3R challenge into opportunity with PrecisInhale®

Replace

PrecisInhale® has two *in vitro* modules that replace animal testing entirely.

DissolvIt® mimics *in vitro* conditions with high precision, delivering exceptionally high-quality predictive PK data.

XposeAL® cell exposure module combines aerosol capability with 3D cell models cultured in an Air-Liquid Interface. It enables studies of cellular effects induced by airborne particles in lung-like conditions.

Reduce

PrecisInhale's one-animal-at-a-time precision exposure methodology significantly reduces the Standard Deviation of the lung-deposited dose. This drastically reduces the number of animals required for inhalation research compared to conventional "tower" exposure systems.

Refine

With PrecisInhale's precision dosing the aerosol generator unit separates the powerful energy released during aerosolization from the rodent's delicate lungs. This more refined, controllable dosing reduces the stress on the animal and delivers a finer, more even lung distribution.

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– Find out more –

P.2 Precision Dosing P.3 A complete range of exposure modules
P.4 IVVC: The power of preclinical precision

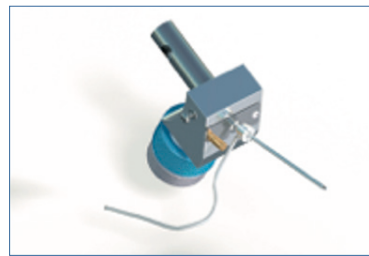
Precision Dosing – A unique, high-precision technology

PreciseInhale's unique Precision Dosing methodology generates a gentle, highly controllable stream of aerosol rather than a high-pressure jet, enabling constant control and monitoring of aerosol concentration and each individual animal's breathing pattern.

Unique *in vivo* module

Intratracheal: Our intratracheal *in vivo* module delivers a lung-specific exposure that bypasses the nasal airways. It wastes little test substance and disperses aerosols evenly across the lungs.

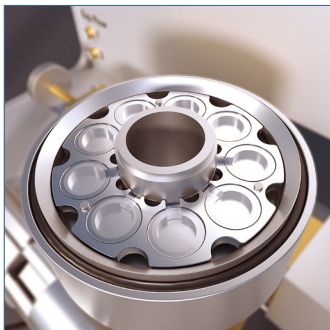
- > Individual control of inhaled dose
- > Standard deviation of typically <10%
- > PK absorption profile of test substance in the systemic blood stream



Unique *in vitro* module

DissolvIt®: Our non-biological *in vitro* dissolution and absorption module uses an artificial air-blood barrier thermostatted at 37° C to generate predictive IVVC data.

- > Both dissolution and absorption data
- > Absorption profiles with C_{max} and T_{max} closely resembling clinical absorption profiles
- > Light microscope photos and/or video of real-time dissolution
- > Ranks and identifies Candidate Drugs and compares generic formulations to their originators



PreciseInhale® – A complete range of exposure modules

PreciseInhale® is an advanced aerosol generation system that enables precision dosing across a wide range of advanced *in vitro* and *in vivo* exposure modules—all using the same aerosol. Aerosols can be sourced from dry powders, inhalers or nebulizer.

