

PERMETRO SYSTEM

LOGAN's latest PERMETRO system is a fully automatic test system integrating dissolution and permeation functions, which can simultaneously test the dissolution and permeation results of drugs.

PERMETRO system samples dissolution solution continuously through the entire dissolution cycle, recreating the flow of drug release from the stomach to the intestines using a man-made intestinal membrane, providing a dynamic absorption profile for permeation through the dissolution cycle, closely mimicking the in-vivo drug absorption in intestines. The automation of the new PERMETRO system makes it not only conventional and timesaving, but also opens up many potential applications. The PERMETRO works seamlessly with all USP dissolution apparatus 1, 2, 3, 4

- In-vitro permeation study
- Avoid the difference in drug permeability caused by the difference between individual animals
- Can be combined with USP apparatus 1,2,3,4,7 for testing drug permeation
- Study the permeation contrast between original drugs and generic drugs
- Allows online HPLC analysis
- It is suggested that permeation test should be carried out before BE test



PERMETRO 800/PERMETRO 3700

During dissolution/permeation test, the dissolved and permeated samples are collected into glass test tubes or liquid phase vials at the same time, and then analyzed off-line or on-line by HPLC through an automatic sampler.

The results of the latest research with LOGAN PERMETRO system prove that the metronidazole data in vitro and in vivo are obviously correlated. Therefore, it can be used to test the correlation of drug absorption in-vivo and in-vitro and study the effect of food on drug absorption.

LOGAN has introduced an advanced dissolution and permeation system in the pharmaceutical sector, which has opened up a new multidimensional channel for drug research and development.

Model	Configuration	Heating Mode
PERMETRO 800	USP I & II - 8 + PERMETRO + Collector	Water bath system
PERMETRO 1200	USP I & II - 12 + PERMETRO + Collector	Water bath system
PERMETRO 3700	USP III + PERMETRO + Collector	Water bath system
PERMETRO 4000	USP IV + PERMETRO + Collector	Water bath system
PERMETRO 4000DH	USP IV DH + PERMETRO + Collector	Dry heat system



PERMETRO 800



PERMETRO 3700