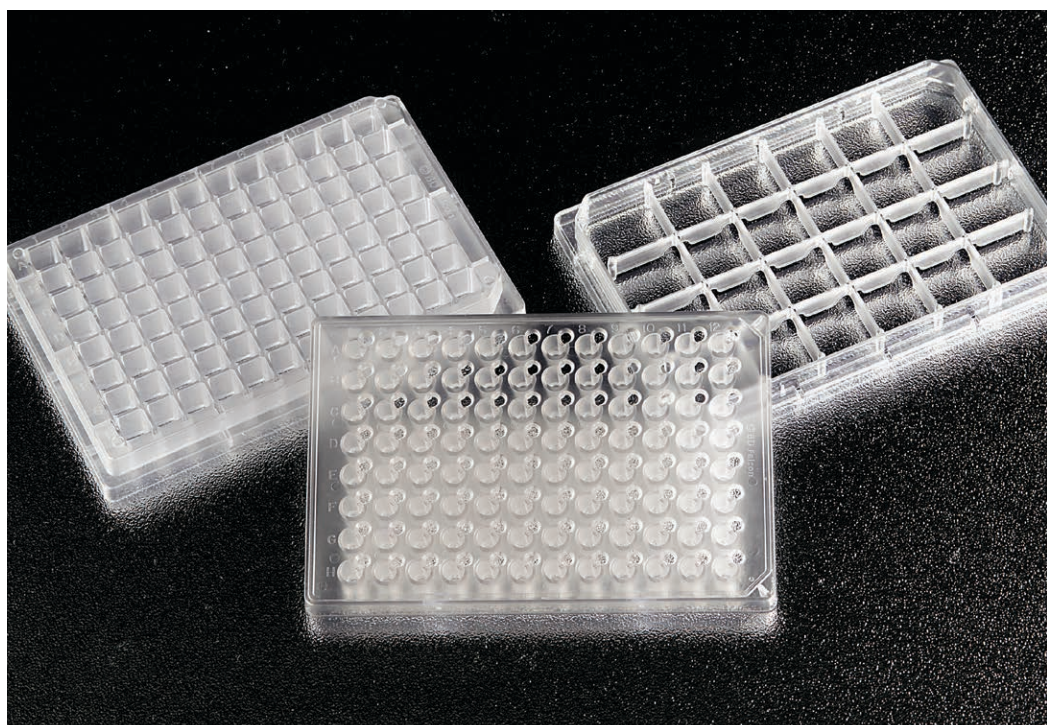


Falcon® 96-Multiwell Insert System

Automate and miniaturize your xenobiotic permeability and transport studies.



Features and Benefits:

- **Automation compatible design**

Format compatible with most robots and fluid handling instruments.

- **Complete sample recovery**

The Falcon 96-Square Well, Angled-Bottom Plate features an angled bottom for more complete sample utilization.

- **Excellent reproducibility**

One-piece feeder tray enhances consistency in well-to-well monolayer growth.

- **Total assay flexibility – ideal for transport studies**

System can be used with many cell lines including Caco-2, MDCK, and LLC-PK₁, for basal to apical or apical to basal measurements of drug transport.

Understanding the bioavailability of new drug candidates early in the drug development process helps to rank order and select compounds for lead optimization. Drug permeability through cell monolayers correlates well with intestinal permeability and oral bioavailability. Several mammalian cell lines are appropriate for this measurement.^{1,2} Corning offers an epithelial cell barrier system using Caco-2, LLC-PK₁, or MDCK cells, widely accepted *in vitro* models used to rank order absorption of drug candidates.

The Falcon 96-Multiwell Insert System is a cell culture insert platform suitable for both manual and robotic screening of compounds in cell-based assays. The system has been tested for its ability to produce a differentiated monolayer of Caco-2, LLC-PK₁, and MDCK cells making it an ideal platform for *in vitro* bioavailability and permeability studies.

This automation compatible platform is composed of a 1.0 µm pore size PET (polyethylene terephthalate) membrane-based 96-Multiwell Insert plate, a media feeder tray, and a lid. The newly designed drop-in baffle for the Feeder Tray mitigates media sloshing and lowers the risk of contamination. To analyze individual samples, simply transfer the insert plate into the Falcon 96-Square Well, Angled-Bottom Plate. If desired, the Falcon 96-Square Well, Angled-Bottom Plate may be used in conjunction with the insert for culturing the cells, eliminating the transfer step from the single-well feeder tray for individual sample analysis.

References

1. Pharm Res. **12**:693 (1995).
2. J. Pharm. Sci. **88**:28 (1999).

FALCON®

A Corning Brand

Falcon® 96-Multiwell Insert System

Intra-Plate Reproducibility of the Falcon 96-Multiwell Insert System

Format Used to Culture Monolayers	TEER (ohms cm ²)	Mannitol P _{app} (x 10 ⁸ cm/sec)	Ritonavir P _{app} (x 10 ⁸ cm/sec)
Falcon 96-Square Well, Angled-Bottom Plate	272 (CV=26%)	0.72 (CV=22%)	9.0 (CV=13%)
Falcon Feeder Tray for 96-Multiwell Insert	420 (CV=16%)	0.70 (CV=13%)	11.0 (CV=2.5%)

Permeability measured in Caco-2 cell monolayers cultured for 21-days in the Falcon Feeder Tray or Falcon 96-Square Well, Angled-Bottom Plate. While the newly designed Feeder Tray with drop-in baffle facilitates medium renewal, comparable results can be obtained in either format. Culturing cells in the Falcon Feeder Tray enhances consistency in well-to-well monolayer growth (TEER values) and function (P_{app} values).



Media exchange through access ports using TECAN Genesis® RSP 150 liquid handler.

Ordering Information

Cat. No.	Description	Qty./Case
Falcon 96-Multiwell Insert Systems		
351130	one insert plate with feeder tray and lid	1
351131	five insert plates with feeder trays and lids	5
353938	five insert plates with 96-square well, angled-bottom plates and lids	5
Falcon 96-Square Well, Angled-Bottom Plate and Lid		
353925	non-treated polystyrene, nonpyrogenic	5
Falcon 96-well Feeder Tray and Lid		
353924	non-treated polystyrene, nonpyrogenic	5

For a complete listing of Falcon and Corning Gentest products, please visit our website.

Warranty/Disclaimer: Unless otherwise specified, all products are for research use only. Not for use in humans. Not intended for use in diagnostic or therapeutic procedures. Corning Life Sciences makes no claims regarding the performance of these products for clinical or diagnostic applications.

To place an order in the U.S., contact Customer Service at:
tel: **800.492.1110**, fax: 978.442.2476, email: CLSCustServ@corning.com

For technical assistance, contact Technical Support at:
tel: **800.492.1110**, fax: 978.442.2476, email: CLSTechServ@corning.com

Outside the U.S., contact your local distributor or visit www.corning.com/lifesciences to locate your nearest Corning office. For additional Corning product, technical, or distributor information, call **978.442.2200**.

Corning acquired the Falcon® brand.

For a listing of trademarks, visit us at www.corning.com/lifesciences/trademarks. Other trademarks are the property of their respective owners.

CORNING

Corning Incorporated
Life Sciences

836 North St.
Building 300, Suite 3401
Tewksbury, MA 01876
t 800.492.1110
t 978.442.2200
f 978.442.2476

www.corning.com/lifesciences