

# Corning® Gentest™ Pre-coated PAMPA Plate System

CORNING

A 96 well permeable support system with a filter plate pre-coated with structured layers of phospholipids

## Features

- ▶ Stable, pre-coated PAMPA plate is highly reproducible
- ▶ Improved assay predictability over traditional PAMPA
- ▶ Reduced mass retention of compounds

Drug compounds are screened for their oral absorption potential early in the drug discovery process in order to eliminate poor performers and to identify candidates that need to be modified. Parallel artificial membrane permeability assays (PAMPA) have become a very useful tool for predicting *in vivo* drug permeability and are well-suited as a ranking tool for the assessment of compounds with passive transport mechanisms. Use of the PAMPA assay allows for ranking of compounds into a low or high classification, using UV VIS spectroscopy or LC/MS.

The Corning Gentest Pre-Coated PAMPA Plate System is a 96 well permeable support system with a filter plate that has been pre-coated with structured layers of phospholipids and a matched receiver microplate. The Corning Gentest Pre-coated PAMPA Plate System has been validated for use in PAMPA and comes ready to use in your assay.

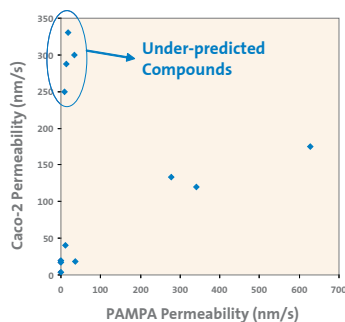


## Product Performance

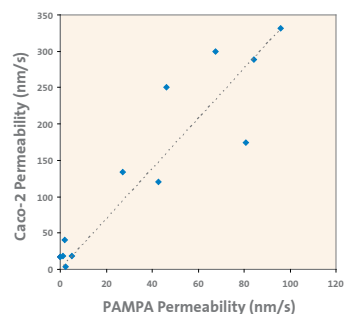
Studies of commercially available compounds demonstrated excellent correlation between permeability and human absorption. Highly absorbed compounds (i.e., antipyrine, caffeine, naproxen, ketoprofen), typically under-predicted by traditional PAMPA, demonstrated high permeability (better prediction) with the Corning® Gentest™ PAMPA Plate System.

## Improved Correlation with Caco-2 Data

### Traditional PAMPA Membrane



### Corning Gentest PAMPA Membrane

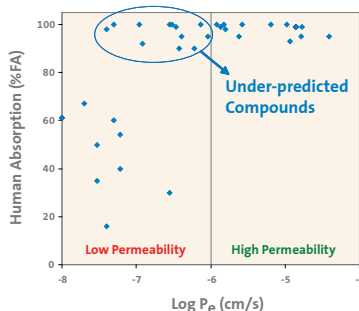


Comparison of the performance of traditional PAMPA membrane and the Corning Gentest PAMPA membrane by analyzing the correlation of the permeability data with the Caco-2 permeability data for a set of 11 compounds. The permeability data of the traditional PAMPA membrane and the Caco-2 permeability data were cited from Balimane et al. Current Industrial Practices of Assessing Permeability and P-Glycoprotein Interaction. AAPS Journal. 2006; 8(1): E1-E13; and other publications from the same laboratory. The permeability data of the PAMPA membrane were obtained using UV VIS measurements; both donor and acceptor buffers were PBS, pH 7.4; and the PAMPA plate system was incubated at room temperature without agitation. The under-predicted compounds circled include: naproxen, antipyrine, caffeine, ketoprofen.

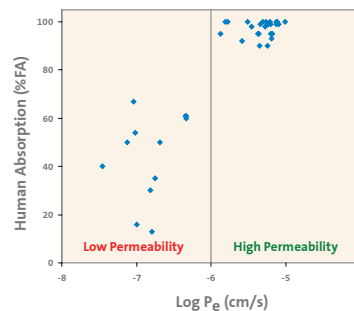
## Corning acquired the Gentest™ brand.

For a listing of trademarks, visit us at [www.corning.com/lifesciences/trademarks](http://www.corning.com/lifesciences/trademarks).

## Traditional PAMPA Membrane



## Corning Gentest PAMPA Membrane



Comparison of the performance of traditional PAMPA membrane and the Corning Gentest PAMPA membrane by analyzing the correlation of the permeability data with the human absorption data for a set of 38 compounds. The permeability data of the traditional PAMPA membrane and the human absorption data were cited from Ruell et al., A Simple PAMPA Filter for Passively Absorbed Compounds, Poster, ACS National Meeting, Boston, August 2002. The permeability data of the PAMPA membrane were obtained using UV VIS measurements; both donor and acceptor buffers were PBS, pH 7.4; and the PAMPA plate system was incubated at room temperature without agitation.

## Product Specifications

### Design and Materials:

Microplate type	96 well microplate configuration complies with ANSI standards
Filter plate	Polystyrene with Polyvinylidene fluoride (PVDF) membrane
Filter plate lid	Polystyrene
Receiver microplate	Polystyrene

### Dimensions:

Filter pore size	0.45 µm
Receiver plate footprint	127.6 mm x 85.3 mm (standard microplate footprint)
Height (assembled with lid)	21.7 mm
Pre-coated filter plate compatibility	Verified compatibility with 5% DMSO and 10% methanol
Automation compatibility	Suitable for use with most liquid handling equipment
Quality control	PAMPA assay performed using a set of standard compounds
Storage Temperature	-20°C

## Corning Gentest Pre-coated PAMPA Plate System Ordering Information

Cat. No.	Description	Qty
353015	96 well pre-coated filter plate, individually packaged with a 96 well microassay receiver plate	5

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](mailto:CLSCustServ@corning.com)

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

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

# 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](http://www.corning.com/lifesciences)