

Corning® Gentest™ ATPase Assay Kit

Colorimetric Reagent Kit for ABC Transporter Membrane ATPase Assays

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The Corning Gentest ATPase Assay Kit is a flexible, complete reagent kit delivering consistency across lots for testing all Corning human and animal ABC transporter membranes with one simple protocol. The assay kit complies with industry guidance recommendations.

Features

- ▶ Supports FDA-recommended P-gp and BCRP, as well as MRP membrane panels
- ▶ Provides a simple, single protocol that accommodates all human and animal ABC transporter membrane studies
- ▶ Delivers maximum flexibility allowing researchers the ability to perform a single transporter study or a full complement of P-gp, MRP, and BCRP studies with one kit
- ▶ Saves researchers time by eliminating reagent preparation steps; assays can be completed within one day
- ▶ Provides flexibility with single aliquot color reagents and stability for up to eight freeze-thaw cycles

Kit supports industry guidance recommendations for ABC transporters

The kit supports USFDA-recommended¹ P-gp and ITC recommended BCRP² *in vitro* studies. The kit includes verapamil and sulfasalazine to determine if a new chemical entity (NCE) is a substrate or inhibitor of P-gp or BCRP, respectively.

Provides a high degree of reagent lot-to-lot consistency

Three ATPase kit lots were evaluated for lot-to-lot consistency using the same hP-gp, hBCRP, and hMRP2 membrane lots and the results obtained demonstrated reproducibility within experimental uncertainty (see Figure 1/Table 1).

Flexible format with one kit, one protocol for all human and animal transporter membranes

Designed for maximum flexibility and researcher convenience, one ATPase protocol accommodates human and animal P-gp, MRP, and BCRP studies. Multiple transporter-use format supports single transporter assays such as five P-gp assays, or any combination of P-gp, MRP, and BCRP assays.

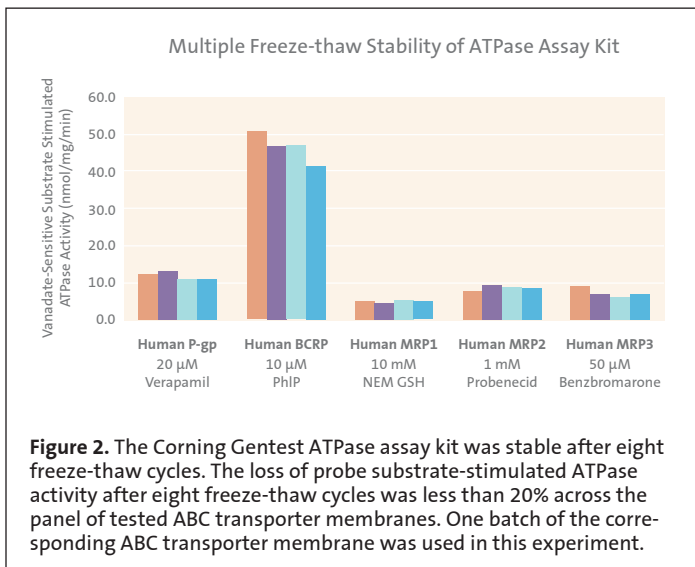
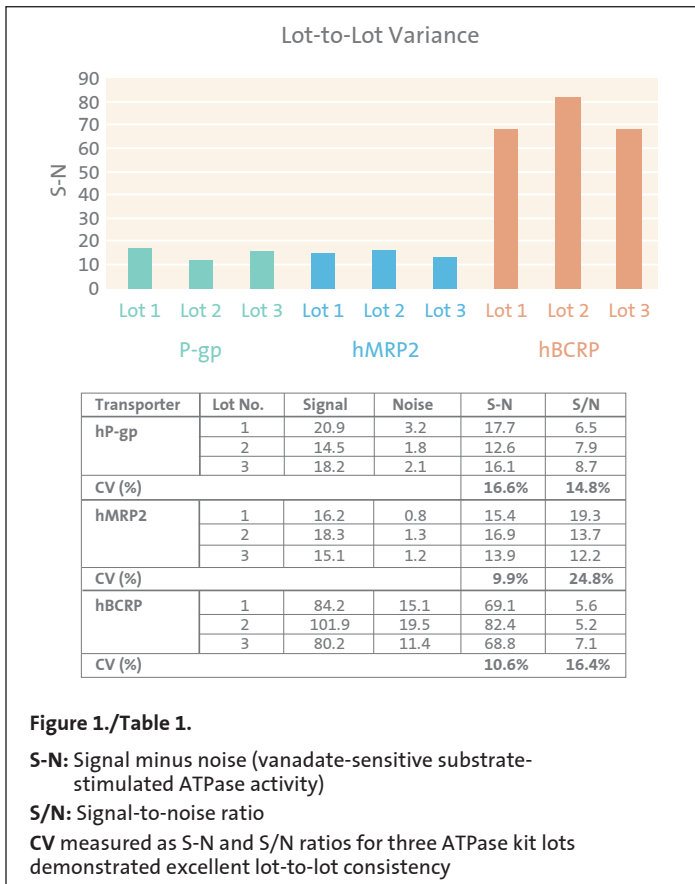
Robust design supports multiple time usage

Single reagent aliquots allow researchers to use one plate at a time (supports five 96 well plate assays), while saving the remaining reagents for use at a later date. The robust kit design supports up to eight freeze-thaw cycles with no significant loss in activity (see Figure 2).

¹ USFDA/CDER, Drug Interaction Studies - Study Design, Data Analysis, and Implications for Dosing and Labeling, DRAFT GUIDANCE, September 2006.

² International Transporter Consortium (ITC) Drug Transporter Guidance Paper, Nature Reviews/Drug Discovery MARCH 2010 | VOLUME 9 (www.nature.com/reviews/drugdisc)





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:
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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 Gentest™ brand.

For a listing of trademarks, visit us at www.corning.com/lifesciences/trademarks.

Corning® Gentest™ ATPase Assay Kit Ordering Information

Kit contains reagents for five 96 well plate assays

Cat. No.	Description	Qty
459006	Assay Buffer 10 mM Phosphate Standard 50 mM ATP 10 mM Sodium Orthovanadate Assay Stop Solution Reducing Agent Color Solution A Color Solution B 1 mM Verapamil 1 M N-Ethylmaleimide 1 M GSH 100 mM Probenecid 25 mM Benzbromarone 1 mM Sulfasalazine	1 kit

Related Products

Corning Gentest ABC Transporter Membranes

Cat. No.	Description
453228	P-gp/MDR1, Human
453230	P-gp/Mdr1, Cynomolgus Monkey
453231	P-gp/Mdr1, Rhesus Monkey
453229	P-gp/Mdr1, Beagle Dog
453440	P-gp/Mdr1, Rat Mdr1a
453434	P-gp/Mdr1, Rat Mdr1b
453232	P-gp/Mdr1, Mouse Mdr1a
453250	P-gp/Mdr1, Mouse Mdr1b
453456	MRP1, Human
453340	Mrp1, Rat
453332	MRP2, Human
453334	Mrp2, Rat
453333	MRP3, Human
453270	BCRP, Human
453251	Bcrp, Mouse
453457	Bcrp, Rat
453200	Control

Corning Gentest™ Contract Research Services

Cat. No.	Description
Contact local rep to discuss	ABC Transporter Studies - ATPase assay in membranes - Functional assays in vesicles

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.

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