

# Corning Life Sciences ADME/TOX Product List

Featuring Corning® Gentest™, Corning BioCoat™, Falcon® Products, and Corning Gentest™ Contract Research Services



CORNING

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# Introduction

## Corning® Gentest™ ADME/Tox Products

Corning Life Sciences is dedicated to the development of novel assay solutions for ADME/Tox properties, including products and research services for drug metabolism transport, solubility, protein binding, and toxicity. Our scientists are internationally recognized as leaders and innovators in cytochrome P450 cDNA-expression and *in vitro* xenobiotic metabolism techniques. This demonstrated commitment to research has been rewarded by the receipt of several competitive NIH grants. The results and applications of our research are reported in peer reviewed journals and at international symposia by our scientists, colleagues, and customers interested in xenobiotic metabolism.

Founded in 1983, Gentest Products and Services initially focused on the use of cultured human cells in GLP genotoxicity assays. In 1985, the company expanded research activities into the area of xenobiotic metabolism by developing cytochrome P450 cDNA-expression approaches. This led to the first commercial offering of cDNA-expressed human cytochrome P450 enzymes in 1990. Since that time, the range of Corning Gentest Products, human cytochrome P450 forms and other xenobiotic-metabolizing enzymes, as well as the specific activity of enzymes in our products, has increased dramatically.

In addition to supplying cDNA-expressed cytochrome P450 and other drug metabolizing enzymes, Corning Life Sciences produces or distributes human liver microsomes; P450 antibodies for immunoinhibition and Western blotting applications; fresh and cryopreserved hepatocytes; solubility and toxicity screening technology; novel cytochrome P450 metabolites, substrates, and chemical inhibitors; and filter-permeable support systems for drug transport and permeability (i.e., Caco-2 and PAMPA).

## Corning Gentest<sup>SM</sup> Contract Research Services

Corning Gentest Contract Research Services bring together more than 20 years experience in supporting pharmaceutical drug discovery and development programs in the early ADME/Tox phase. Our Study Directors are highly skilled scientists with an in-depth knowledge of absorption, transport, metabolism, and toxicity. This expertise enables Corning Life Sciences Study Directors to partner with you to develop and deliver a broad range of *in vitro* ADME/Tox studies customized to meet your discovery and development project needs. We ensure the highest level of quality and adhere to current regulatory requirements and applicable FDA-sponsored guidance documents.

Utilizing state-of-the art techniques and equipment, Corning Life Sciences is ideally suited to assist you in screening for viable drug candidates during drug discovery or to prepare regulatory agency submission-quality reports for your drug development compounds. Let our team of experts take you to the next level with studies designed to predict drug-drug interactions and human pharmacokinetics using the innovative Corning Gentest *in vitro* products, cell models, and methodologies.

## Ordering and Customer Service Contact Information

### Corning® ADME/Tox Products:

#### Customer Service Information

Contact a Corning Life Sciences Customer Service Representative at:

tel: **800.492.1110, option 2**

fax: 978.442.2476

email: **CLSCustServ@corning.com**

#### Technical Support Information

Contact a Corning Life Sciences Technical Support Representative 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.

### Corning Gentest<sup>SM</sup> Contract Research Services

To discuss and order Corning Gentest Contract Research Services, contact Corning Life Sciences at: tel: **888.334.5229 x2246** or **781.935.5115 x2246**, email: **CLSTechServ@corning.com**

Shipment of Corning Gentest LLC-PK<sub>1</sub> Control and P-gp Expressing Cell Lines requires receipt by Corning Life Sciences of an executed USE AGREEMENT (non-commercial use by non-profit organizations only) or an executed LICENSE AGREEMENT. Contact a Technical Support Representative or your local Sales Representative for more information regarding these agreements.

### Terms and Prices

Manufacturers' terms and conditions for direct orders:

- ▶ No minimum order required
- ▶ Same-day shipment available
- ▶ Confirmation of shipping made at time of order
- ▶ Written confirmation required only for standing, blanket, or change orders
- ▶ Prices quoted in U.S. dollars
- ▶ MasterCard, Visa, or American Express Cards accepted
- ▶ Payment terms are net 30 days
- ▶ Payment remittances should be sent to the address printed on the invoice
- ▶ Freight terms are FOB origin
- ▶ Charges for freight, handling, wet/dry ice, and packaging will be added to invoice as a separate item
- ▶ Taxes imposed on the sale of any product will be added to the price quoted
- ▶ Prices are subject to change without prior notification

## Online Shopping

Visit [www.corning.com/lifesciences](http://www.corning.com/lifesciences) and open an account to order products online.

## Delivery and Product Satisfaction on Direct Orders

- ▶ Products will be replaced at no cost, if the product does not conform to the accompanying analytical data report.
- ▶ Products will be replaced at no cost, if shipment is incomplete or damaged. Report incomplete shipments within five days, damaged shipments within 48 hours.
- ▶ Returned goods authorization (RGA) number, assigned by a Customer Service Representative, is required prior to all product returns.
- ▶ Appropriate shipping documents, cartons, and packing materials are required for all product returns.
- ▶ No product may be returned for credit or replacement after 20 days.



## HepatoLink

HepatoLink® is the Corning Life Sciences immediate response system providing researchers with instant notification when Corning Gentest hepatocyte products are available. For your convenience, select a preferred contact method—email, phone, and/or SMS text alerts. Upon registration, you will be sent donor characterization data when a new lot becomes available. You can register online at [www.corning.com/lifesciences/hepatolink](http://www.corning.com/lifesciences/hepatolink). Place your order directly through Corning's online system. If you have any questions regarding Corning's program or your participation, please contact us at **978.442.2200** or email [hepatocytes@corning.com](mailto:hepatocytes@corning.com).

All Corning Gentest Fresh and CryoHepatocyte orders must be lot specific. Each lot number corresponds with a specific donor and must be included with your order. An up-to-date listing of Corning Gentest Human Fresh and CryoHepatocyte donors with donor demographics, donor history, and characterization data is maintained at [www.corning.com/lifesciences/admetox](http://www.corning.com/lifesciences/admetox).

# Absorption/Transport

## Cell Culture and Multiwell Filter Permeable Support Systems

### Corning® Gentest™ Pre-coated PAMPA Plate System

Cat. No.	Description	Qty/Cs
353015	96 Well pre-coated Filter Plate, individually packaged with a 96 Well Microassay Receiver Plate	5

### Corning BioCoat™ HTS Caco-2 Assay System

System includes:

- Corning BioCoat 1.0 µm Fibrillar Collagen-coated 24 Multiwell Filter Permeable Support Plate and Single Well Feeder Tray
- Corning Intestinal Epithelium Seeding Medium – 250 mL
- Corning Intestinal Epithelium Differentiation Medium – 250 mL
- Corning Mito+ Serum Extender – 0.5 mL
- Complete Protocol

Cat. No.	Description	Qty/Cs
354801	Corning BioCoat HTS Caco-2 Assay System, 1 kit	1
354802	Corning BioCoat HTS Caco-2 Assay System, 5 kits	5

### Corning BioCoat Fibrillar Collagen 24 Multiwell Permeable Support System

Corning BioCoat 1.0 µm Fibrillar Collagen-coated 24 Multiwell Filter Permeable Support Plate and Single Well Feeder Tray

Cat. No.	Description	Qty/Cs
354803	Corning BioCoat Fibrillar Collagen 24 Multiwell Permeable Support System, 1 kit	1
354804	Corning BioCoat Fibrillar Collagen 24 Multiwell Permeable Support System, 5 kits	5

### Falcon® 24 Multiwell Permeable Support System

System includes:

Falcon 1.0 µm 24 Multiwell Filter Permeable Support Plate and Single Well Feeder Tray with Lid

NOTE: Companion receiver plate for drug transport studies must be ordered separately (Cat. No. 353047 or 353935)

Cat. No.	Description	Qty/Cs
351180	Falcon 24 Multiwell Permeable Support System, 1 kit	1
351181	Falcon 24 Multiwell Permeable Support System, 5 kits	5

### Companion Products for Falcon 24 Multiwell Permeable Support Systems

Cat. No.	Description	Qty/Cs
353047	Falcon 24 Well Receiver Plates and Lids (for use as Multiwell Feeder Trays or drug transport studies)	50
353935	Falcon 24 Well Receiver Plates and Lids (for use as Multiwell Feeder Trays or drug transport studies)	60 (RS*)
351186	Falcon Single Well Feeder Tray and Lid	5

### HTS Transwell®-96 Well Permeable Support System

System includes:

HTS Transwell-96 Well Permeable Support System, 1.0 µm Polyester (PET) Membrane, Reservoir and Receiver Plates with 2 Lids

Cat. No.	Description	Qty/Cs
3380	HTS Transwell-96 Well Permeable Support System, 1 kit	1
3392	HTS Transwell-96 Well Permeable Support System, 5 kits	5

\*RS: Packaged in ready-stack trays



## Falcon® 96 Multiwell Permeable Support Systems

System includes:

Falcon 1.0 µm 96 Multiwell Filter Permeable Support Plates and Single Well Feeder Tray with Baffle and Lid

**NOTE:** Companion receiver plate for drug transport studies must be ordered separately (Cat. No. 353925).

Cat. No.	Description	Qty/Cs
351130	Falcon 96 Multiwell Permeable Support System, Single Well, 1 kit	1
351131	Falcon 96 Multiwell Permeable Support System, Single Well, 5 kits	5

System includes:

Falcon 1.0 µm 96 Multiwell Filter Permeable Support Plates and Companion 96 Square Well, Angled-Bottom Plates and Lids

**NOTE:** Companion feeder tray with baffle and lid for drug transport studies must be ordered separately (Cat. No. 353924).

353938	Falcon 96 Multiwell Permeable Support System, Square Well, 5 kits	5
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## Companion Products for Falcon 96 Multiwell Permeable Support Systems

Cat. No.	Description	Qty/Cs
353925	Falcon 96 Square Well, Angled-Bottom Receiver Plates and Lids	5
353924	Falcon Single Well Feeder Tray with Baffle and Lid	5

## Transwell® Individual Cell Culture Permeable Supports

Cat. No.	Description	Qty/Pk	Qty/Cs
Polycarbonate Membrane, 0.4 µm pore size, 1.0 x 10 <sup>8</sup> pores/cm <sup>2</sup>			
3412	6 well	6	24
3401	12 well	12	48
3413	24 well	12	48
Polyester Membrane, 0.4 µm pore size, 4.0 x 10 <sup>6</sup> pores/cm <sup>2</sup>			
3450	6 well	1	48
3460	12 well	12	48
3470	24 well	12	48

## Falcon Individual Cell Culture Permeable Supports

Cat. No.	Description	Qty/Pk	Qty/Cs
Transparent PET Membrane, 0.4 µm pore size, 1.6 x 10 <sup>6</sup> pores/cm <sup>2</sup>			
353090	6 well	1	48
353180	12 well	1	48
353095	24 well	1	48
Transparent PET Membrane, 1.0 µm pore size, 1.6 x 10 <sup>6</sup> pores/cm <sup>2</sup>			
353102	6 well	1	48
353103	12 well	1	48
353104	24 well	1	48
High Density, Translucent PET Membrane, 0.4 µm pore size, 1.0 x 10 <sup>8</sup> pores/cm <sup>2</sup>			
353493	6 well	1	48
353494	12 well	1	48
353495	24 well	1	48
Corning® BioCoat™ Cell Culture Deep Well Plate			
355467	6 well	1	4
Falcon Cell Culture Permeable Support Companion Plates			
353502	6 well	1	50
353503	12 well	1	50
353504	24 well	1	50



## Transporter Model Systems

### Corning® TransportoCells™ Cryopreserved SLC Transporter Cells

Corning TransportoCells products are high performance mammalian cells in a convenient, cryopreserved format that transiently overexpress a single human SLC transporter protein.

Cat. No.	Transporter	No. Cells	Qty
354859	OATP1B1*1a/SLCO1B1*1a	10 million cells	1
354851	OATP1B3/SLCO1B3	10 million cells	1
354857	OAT1/SLC22A6	10 million cells	1
354858	OAT3/SLC22A8	10 million cells	1
354852	OCT1/SLC22A1	10 million cells	1
354853	OCT2/SLC22A2	10 million cells	1
354854	Control		
354855	MATE1	10 million cells	1
354856	MATE2-K	10 million cells	1

### Corning Gentest ABC Transporter Membranes

Cat. No.	Transporter	Protein Concentration	Qty
453228	Human P-gp (MDR1)	5 mg/mL	0.5 mL
453440	Rat P-gp (Mdr1a)	5 mg/mL	0.5 mL
453434	Rat P-gp (Mdr1b)	5 mg/mL	0.5 mL
453232	Mouse P-gp (Mdr1a)	5 mg/mL	0.5 mL
453250	Mouse P-gp (Mdr1b)	5 mg/mL	0.5 mL
453230	Cynomolgus Monkey P-gp (Mdr1)	5 mg/mL	0.5 mL
453231	Rhesus Monkey P-gp (Mdr1)	5 mg/mL	0.5 mL
453229	Beagle Dog P-gp (Mdr1)	5 mg/mL	0.5 mL
453456	Human MRP1	5 mg/mL	0.5 mL
453332	Human MRP2	5 mg/mL	0.5 mL
453333	Human MRP3	5 mg/mL	0.5 mL
453340	Rat Mrp1	5 mg/mL	0.5 mL
453334	Rat Mrp2	5 mg/mL	0.5 mL
453270	Human BCRP (Arg482)	5 mg/mL	0.5 mL
453257	Human BCRP (Thr482)	5 mg/mL	0.5 mL
453457	Rat Bcrp	5 mg/mL	0.5 mL
453251	Mouse Bcrp	5 mg/mL	0.5 mL
453200	Control membrane preparation for ABC transporters (negative control)	5 mg/mL	0.5 mL

Arg: Arginine Thr: Threonine

## Corning® Gentest™ ABC Transporter Vesicles

Cat. No.	Transporter	Protein Concentration	Qty
453455	Human MRP1	5 mg/mL	0.5 mL
453450	Human MRP2	5 mg/mL	0.5 mL
453520	Human MRP3	5 mg/mL	0.5 mL
453510	Rat Mrp1	5 mg/mL	0.5 mL
453523	Rat Mrp2	5 mg/mL	0.5 mL
453501	Rat Bsep	5 mg/mL	0.5 mL
453502	Human BSEP	5 mg/mL	0.5 mL
453271	Human BCRP (Arg482)	5 mg/mL	0.5 mL
453345	Rat Bcrp	5 mg/mL	0.5 mL
453252	Mouse Bcrp	5 mg/mL	0.5 mL
453500	Control Vesicle (negative control)	5 mg/mL	0.5 mL

Arg: Arginine

## Corning Gentest Transporter Kits

Cat. No.	Description	Qty
459006	Corning Gentest ATPase Assay Kit Kit contains reagents for five 96 well plate assays (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
459010	Corning Gentest MRP/BCRP Vesicle Assay Kit Kit contains reagents for 200 assays (Assay Uptake Buffer, 10 X Wash Buffer, 200 mM ATP, 200 mM AMP, 300mM GSH, MRP3 Substrate, BCRP Substrate, MRP2/MRP3 Fluorescent Substrate, MRP1/MRP2 Substrate)	1 Kit
459011	Corning Gentest BSEP Vesicle Assay Kit Kit contains reagents for 200 assays (Assay Uptake Buffer, 10 X Wash Buffer, 200 mM ATP, 200 mM AMP, BSEP Substrate, Blocking Buffer (50X))	1 Kit
450600	Corning Gentest MRP/BCRP Vesicle Assay Wash Buffer	10X MOPS 500 mL
450601	Corning Gentest BSEP Vesicle Assay Wash Buffer	10X HEPES 500 mL

## Corning Gentest Transporter-Qualified Human CryoHepatocytes

Cat. No.	Description	Size	Qty/Pk
454541	Corning Gentest Plateable Transporter-Qualified Human CryoHepatocytes	5 million cells	1.5 mL
454426	Corning Gentest SLC Transporter-Qualified Human CryoHepatocytes in Suspension	2-5 million cells	1.5 mL
454427	Corning Gentest SLC Transporter-Qualified Human CryoHepatocytes in Suspension	>5 million cells	1.5 mL
454460	Corning Gentest Hepatocyte Transporter Suspension Assay Kit Kit contains a detailed transporter uptake protocol, 10 mL of filtration oil, and 100 easy-to-cut centrifuge tubes	1 Kit	100 tests

## Corning Gentest LLC-PK<sub>1</sub> Control and P-gp Expressing Cells

Shipment of Corning Gentest LLC-PK<sub>1</sub> Control and P-gp Expressing Cell Lines requires receipt by Corning Life Sciences of an executed USE AGREEMENT (non-commercial use by non-profit organizations only) or an executed LICENSE AGREEMENT. Contact a Technical Support Representative at **800.492.1110** or your local Sales Representative for more information regarding these agreements. **Note:** Cell lines are not available for purchase online.

Cat. No.	Description	Qty
450211	LLC-PK <sub>1</sub> expressing MDR1 cDNA Cell Line	1
450216	LLC-PK <sub>1</sub> Control Cell Line (contains same vector and promotor used in Cat. No. 450211)	1

## Chemicals for Measuring Transporter Activity

CLF is a fluorescein-labeled bile acid with biological behavior closely resembling naturally occurring cholyl glycine. CLF is secreted into bile canaliculi by the bile salt export pump (BSEP) transporter.

Cat. No.	Description	Qty/Pk
451041	CLF (Choly-lysyl-fluorescein)	1 mg

# Metabolism

## Recombinant Metabolic Enzymes and Antibodies

### Corning® Supersomes™ P450/UGT Metabolic Enzymes

#### Human P450 Enzymes

Cat. No.	Description	Protein Concentration	Qty
456211	Human CYP1A1 + reductase	8 mg/mL	0.5 nmol
456203	Human CYP1A2 + reductase	6 mg/mL	0.5 nmol
456220	Human CYP1B1 + reductase	5 mg/mL	0.5 nmol
456204	Human CYP2A6 + reductase	7 mg/mL	1 nmol
456254	Human CYP2A6 + reductase + b <sub>5</sub>	5 mg/mL	0.5 nmol
456210	Human CYP2B6 + reductase	7 mg/mL	0.5 nmol
456255	Human CYP2B6 + reductase + b <sub>5</sub>	8 mg/mL	0.5 nmol
456222	Human CYP2C18 + reductase	5 mg/mL	0.5 nmol
456219	Human CYP2C19 + reductase	3 mg/mL	0.5 nmol
456259	Human CYP2C19 + reductase + b <sub>5</sub>	3 mg/mL	0.5 nmol
456212	Human CYP2C8 + reductase	4 mg/mL	1 nmol
456252	Human CYP2C8 + reductase + b <sub>5</sub>	4 mg/mL	0.5 nmol
456218	Human CYP2C9*1 (Arg <sub>144</sub> ) + reductase	5 mg/mL	1 nmol
456258	Human CYP2C9*1 (Arg <sub>144</sub> ) + reductase + b <sub>5</sub>	3 mg/mL	0.5 nmol
456217	Human CYP2D6*1 (Val <sub>374</sub> ) + reductase	7 mg/mL	0.5 nmol
456206	Human CYP2E1 + reductase + b <sub>5</sub>	4 mg/mL	1 nmol
456264	Human CYP2J2 + reductase + b <sub>5</sub>	3 mg/mL	0.5 nmol
456207	Human CYP3A4 + reductase	3 mg/mL	1 nmol
456202	Human CYP3A4 + reductase + b <sub>5</sub>	5 mg/mL	0.5 nmol
456235	Human CYP3A5 + reductase	4 mg/mL	1 nmol
456256	Human CYP3A5 + reductase + b <sub>5</sub>	8 mg/mL	0.5 nmol
456237	Human CYP3A7 + reductase + b <sub>5</sub>	5 mg/mL	0.5 nmol
456221	Human CYP4A11 + reductase	7 mg/mL	0.5 nmol
456272	Human CYP4F2 + reductase + b <sub>5</sub>	3 mg/mL	0.5 nmol
456273	Human CYP4F3A + reductase + b <sub>5</sub>	13 mg/mL	0.25 nmol
456274	Human CYP4F3B + reductase + b <sub>5</sub>	3 mg/mL	0.5 nmol
456275	Human CYP4F12 + reductase + b <sub>5</sub>	3 mg/mL	0.5 nmol
456260	Human CYP19 (Aromatase) + reductase	4 mg/mL	0.5 nmol

#### Allelic Variants

Cat. No.	Description	Protein Concentration	Qty
456240	Human CYP2D6*10 Allelic Variant Kit (Asian allele) <i>Kit includes: Human CYP2D6*10 and CYP2D6*1 Corning Supersomes Enzymes, and Insect Control Microsomes</i>		0.5 nmol P450 in 0.5 mL
456209	Human CYP2C9*2 (Cys <sub>144</sub> ) + reductase Allelic Variant	4 mg/mL	1 nmol
456242	Human CYP2C9*3 (Leu <sub>359</sub> ) + reductase Allelic Variant	3 mg/mL	1 nmol

See page page 11 for Controls, Cofactors, and Buffers

## Corning® Supersomes™ P450/UGT Metabolic Enzymes (continued)

### Human UGT Enzymes

Cat. No.	Description	Protein Concentration	Qty
456400	UGT Control Microsomes	5 mg/mL	0.5 mL
456411	Human UGT 1A1	5 mg/mL	0.5 mL
456413	Human UGT 1A3	5 mg/mL	0.5 mL
456414	Human UGT 1A4	5 mg/mL	0.5 mL
456416	Human UGT 1A6	5 mg/mL	0.5 mL
456407	Human UGT 1A7	5 mg/mL	0.5 mL
456418	Human UGT 1A8	5 mg/mL	0.5 mL
456419	Human UGT 1A9	5 mg/mL	0.5 mL
456410	Human UGT 1A10	5 mg/mL	0.5 mL
456424	Human UGT 2B4	5 mg/mL	0.5 mL
456427	Human UGT 2B7	5 mg/mL	0.5 mL
453323	Human UGT 2B10	5 mg/mL	0.5 mL
456435	Human UGT 2B15	5 mg/mL	0.5 mL
456437	Human UGT 2B17	5 mg/mL	0.5 mL

UGT: UDP-glucuronosyl transferases

### Other Human Metabolic Enzymes

Cat. No.	Description	Protein Concentration	Qty
453320	Human CES1b	5 mg/mL	0.5 mL
453321	Human CES1c	5 mg/mL	0.5 mL
453322	Human CES2	5 mg/mL	0.5 mL
456241	Human FMO1	5 mg/mL	0.5 mL
456233	Human FMO3	5 mg/mL	0.5 mL
456245	Human FMO5	5 mg/mL	0.5 mL
456280	Monoamine Oxidase (MAO) Control	5 mg/mL	0.5 mL
456283	Human Monoamine Oxidase A (MAO-A)	5 mg/mL	0.5 mL
456284	Human Monoamine Oxidase B (MAO-B)	5 mg/mL	0.5 mL
456199	Insect Cell Cytosol (for use with all NAT Corning Supersomes Enzymes)	2.5 mg/mL	0.5 mL
456281	Human NAT1 Cytosol	2.5 mg/mL	0.5 mL
456282	Human NAT2 Cytosol	2.5 mg/mL	0.5 mL

FMO: Flavin-containing monooxygenase

NAT: N-Acetyltransferases

See page page 11 for Controls, Cofactors, and Buffers

## Rat P450 Enzymes

Cat. No.	Description	Protein Concentration	Qty
456514	Rat P450 Reductase Control Baculovirus-Insert Cell-Expressed (BTI-TN-5B1-4 cells)	5 mg/mL	0.5 mL
456511	Rat CYP1A1 + reductase	2.5 mg/mL	1.0 nmol
456503	Rat CYP1A2 + reductase	3.5 mg/mL	0.5 nmol
456519	Rat CYP2A1 + reductase + b <sub>5</sub>	10 mg/mL	0.5 nmol
456505	Rat CYP2A2 + reductase + b <sub>5</sub>	10 mg/mL	0.5 nmol
456510	Rat CYP2B1 + reductase + b <sub>5</sub>	14 mg/mL	0.5 nmol
456536	Rat CYP2C6 + reductase + b <sub>5</sub>	3 mg/mL	0.5 nmol
456531	Rat CYP2C11 + reductase + b <sub>5</sub>	3 mg/mL	0.5 nmol
456532	Rat CYP2C12 + reductase + b <sub>5</sub>	11 mg/mL	0.5 nmol
456533	Rat CYP2C13 + reductase + b <sub>5</sub>	7 mg/mL	0.5 nmol
456517	Rat CYP2D1 + reductase	5 mg/mL	0.5 nmol
456513	Rat CYP2D2 + reductase	10 mg/mL	0.5 nmol
456521	Rat CYP2E1 + reductase + b <sub>5</sub>	5 mg/mL	0.5 nmol
456501	Rat CYP3A1 + reductase + b <sub>5</sub>	8 mg/mL	0.5 nmol
456502	Rat CYP3A2 + reductase + b <sub>5</sub>	8 mg/mL	0.5 nmol

## Dog P450 Enzymes

Cat. No.	Description	Protein Concentration	Qty
456621	Dog CYP2C21+ reductase + b <sub>5</sub>	5 mg/mL	0.5 nmol
456612	Dog CYP3A12 + reductase + b <sub>5</sub>	4 mg/mL	0.5 nmol

See page 11 for Controls, Cofactors, and Buffers

## Controls, Cofactors, and Buffers

### Corning® Supersomes™ Enzymes Controls

Cat. No.	Description	Protein Concentration	Qty
456200	Insect Cell Control for Corning Supersomes Enzymes Baculovirus-Insect Cell-Expressed (BTI-TN-5B1-4 cells)	5 mg/mL	1.5 mL
456201	Insect Cell Control for Corning Supersomes Enzymes Baculovirus-Insect Cell-Expressed (BTI-TN-5B1-4 cells)	5 mg/mL	0.5 mL
456199	Insect Cell Cytosol Control	2.5 mg/mL	0.5 mL
456299	Sf9 Insect Control for Corning Supersomes Enzymes Baculovirus-Insect Cell-Expressed	5 mg/mL	0.5 mL
456400	Human UGT Insect Control for Corning Supersomes Enzymes	5 mg/mL	0.5 mL
456280	MAO Insect Control for Corning Supersomes Enzymes	5 mg/mL	0.5 mL
456244	Human P450 Reductase and b <sub>5</sub> Control for Baculovirus Expressed (BTI-TN-5B1-4 cells)	5 mg/mL	0.5 mL
456514	Rat P450 Reductase Control for Baculovirus-Insect Cell-Expressed (BTI-TN-5B1-4 cells)	5 mg/mL	0.5 mL

### Cofactors

Cat. No.	Description	Qty
451220	NADPH Regenerating System – Solution A (NADP <sup>+</sup> and Glc-6-PO <sub>4</sub> )	5 mL
451200	NADPH Regenerating System – Solution B (G6PDH)	1 mL
451300	UGT Reaction Mix – Solution A	2 mL
451320	UGT Reaction Mix – Solution B	5 mL

### Buffers

Cat. No.	Description	Qty
451201	Phosphate Buffer (pH 7.4)	500 mL
451202	Tris HCl (pH 7.5)	500 mL

## HTS P450 Inhibition Kits

### Corning Gentest™ Human P450 Inhibition Screening Kits

Measure IC<sub>50</sub> values of up to 38 test compounds

Cat. No.	P450 Enzyme	Substrate	Positive Control Inhibitor	Fluorescent Standard	Qty*
459500	CYP1A2	CEC	Furafylline	CHC	1 kit
459420	CYP2A6	Coumarin	Trancyclopromine	7-HC	1 kit
459220	CYP2B6	EFC	Trancyclopromine	HFC	1 kit
459320	CYP2C8	DBF	Quercetin	Fluorescein	1 kit
459300	CYP2C9	MFC	Sulfaphenazole	HFC	1 kit
459400	CYP2C19	CEC	Trancyclopromine	CHC	1 kit
459200	CYP2D6	AMMC	Quinidine	AHMC	1 kit
459100	CYP3A4	BFC	Ketoconazole	HFC	1 kit
459110	CYP3A4	BQ	Ketoconazole	7-HQ	1 kit
459120	CYP3A4	DBF	Ketoconazole	Fluorescein	1 kit
459520	CYP19	MFC	Ketoconazole	HFC	1 kit

\*Please inquire about bulk packaging

## Chemical Substrates, Inhibitors, Metabolite Standards, and Solutions

### Stable Isotope Standards for use with Mass Spectrometry (Listed by Enzyme)

Cat. No.	Description	CAS#	CYP/UGT Application	Qty
451001	Acetamidophenol-[ <sup>13</sup> C <sub>2</sub> , <sup>15</sup> N]	103-90-2	Internal Metabolite Standard <b>CYP1A2</b>	1 mg
451002	7-Hydroxycoumarin-[D <sub>5</sub> ]	93-35-6	Internal Metabolite Standard <b>CYP2A6</b>	1 mg
451003	Hydroxybupropion-[D <sub>6</sub> ]	N/A	Internal Metabolite Standard <b>CYP2B6</b>	1 mg
451004	Desethylamodiaquine-[D <sub>3</sub> ]	79352-78-6	Internal Metabolite Standard <b>CYP2C8</b>	1 mg
451048	6α-Hydroxypaclitaxel-[D <sub>5</sub> ]	153212-75-0	Internal Metabolite Standard <b>CYP2C8</b>	1 mg
451005	Hydroxytolbutamide-[D <sub>9</sub> ]	5719-85-7	Internal Metabolite Standard <b>CYP2C9</b>	1 mg
451006	4-Hydroxydiclofenac-[ <sup>13</sup> C <sub>6</sub> ]	64118-84-9	Internal Metabolite Standard <b>CYP2C9</b>	1 mg
451007	4-Hydroxymephenytoin-[D <sub>3</sub> ]	61837-65-8	Internal Metabolite Standard <b>CYP2C19</b>	1 mg
451008	Dextrorphan-[D <sub>3</sub> ]	25-73-5	Internal Metabolite Standard <b>CYP2D6</b>	1 mg
451040	1-Hydroxybufuralol Maleate-[D <sub>9</sub> ]	57704-16-2	Internal Metabolite Standard <b>CYP2D6</b>	1 mg
451010	1'-Hydroxymidazolam-[ <sup>13</sup> C <sub>3</sub> ]	59468-90-5	Internal Metabolite Standard <b>CYP3A4</b>	1 mg
451011	Oxidized Nifedipine-[D <sub>12</sub> ]	67035-22-7	Internal Metabolite Standard <b>CYP3A4</b>	1 mg
451009	6β-Hydroxytestosterone-[D <sub>7</sub> ]	62-99-7	Internal Metabolite Standard <b>CYP3A4</b>	1 mg
451046	Acetaminophen-glucuronide-[D <sub>3</sub> ]	120595-80-4	Internal Metabolite Standard <b>UGT1A1, UGT1A6, UGT1A9</b>	1 mg

### Fluorescent P450 and UGT Substrates, Metabolite Standards, and Inhibitors (Listed by Enzyme)

Cat. No.	Description	CAS#	CYP/MFC/BFC/BQ Application	Qty
451770	3-O-Methylfluorescein	65144-30-1	Fluorescent <b>CYP1A1</b> and <b>CYP2C19</b> Substrate	5 mg
451775	3-O-Methylfluorescein	65144-30-1	Fluorescent <b>CYP1A1</b> and <b>CYP2C19</b> Substrate	25 mg
451015	3-Cyano-7-hydroxycoumarin (CHC)	19088-73-4	Fluorescent Metabolite Standard <b>CYP1A2</b> and <b>CYP2C19</b>	5 mg
451014	3-Cyano-7-ethoxycoumarin (CEC)	117620-77-6	Fluorescent Substrate <b>CYP1A2</b> and <b>CYP2C19</b>	5 mg
451740	7-Methoxy-4-(trifluoromethyl)-coumarin (MFC)	575-04-2	Fluorescent <b>CYP2C9</b> , <b>CYP2C19</b> , and <b>CYP2E1</b> Substrate	5 mg
451745	7-Methoxy-4-(trifluoromethyl)-coumarin (MFC)	575-04-2	Fluorescent <b>CYP2C9</b> , <b>CYP2C19</b> , and <b>CYP2E1</b> Substrate	25 mg
451700	AMMC	N/A	Fluorescent <b>CYP2D6</b> Substrate	5 mg
451705	AMMC	N/A	Fluorescent <b>CYP2D6</b> Substrate	25 mg
451701	AHMC	15776-59-7	AMMC Metabolite <b>CYP2D6</b> Standard	5 mg
451760	MAMC	N/A	Fluorescent <b>CYP2D6</b> Substrate	5 mg
451765	MAMC	N/A	Fluorescent <b>CYP2D6</b> Substrate	25 mg
451761	7-Hydroxy-4-(aminomethyl)-coumarin (HAMC)	N/A	MAMC Metabolite Standard <b>CYP2D6</b>	5 mg
451750	Dibenzylfluorescein (DBF)	97744-44-0	Fluorescent <b>CYP3A4</b> and <b>CYP2C8</b> Substrate	5 mg
451755	Dibenzylfluorescein (DBF)	97744-44-0	Fluorescent <b>CYP3A4</b> and <b>CYP2C8</b> Substrate	25 mg
451720	7-Benzyloxyquinoline (7-BQ)	131802-60-3	Fluorescent <b>CYP3A4</b> Substrate	5 mg
451725	7-Benzyloxyquinoline (7-BQ)	131802-60-3	Fluorescent <b>CYP3A4</b> Substrate	25 mg
451730	7-Benzyloxy-4-(trifluoromethyl)-coumarin (BFC)	N/A	Fluorescent <b>CYP3A4</b> Substrate	5 mg
451735	7-Benzyloxy-4-(trifluoromethyl)-coumarin (BFC)	N/A	Fluorescent <b>CYP3A4</b> Substrate	25 mg
451731	7-Hydroxy-4-(trifluoromethyl)-coumarin (HFC)	575-03-1	Metabolite Standard for <b>MFC</b> , <b>BFC</b>	5 mg
451721	7-Hydroxyquinoline	580-20-1	Metabolite Standard for <b>BQ</b>	5 mg



## Chemical Substrates, Inhibitors, Metabolite Standards, and Solutions for Metabolizing Enzymes (Listed by CYP Application)

Cat. No.	Description	CAS#	CYP Application	Qty
451013	Fexofenadine (Terfenadine Carboxylate)	83799-24-0	Metabolite Standard for P450	5 mg
451037	Furafylline	80288-49-9	Mechanism-based Inhibitor <b>CYP1A2</b>	5 mg
451710	Bupropion Hydrochloride	31677-93-7	Substrate <b>CYP2B6</b>	25 mg
451711	Hydroxybupropion	N/A	Metabolite Standard <b>CYP2B6</b>	5 mg
451016	(S)-(+)-N-Desmethylnirvanol (S)-(+)-Nirvanol	65567-34-2	Metabolite Standard <b>CYP2B6</b>	5 mg
451782	Desethylamodiaquine	79352-78-6	Metabolite Standard <b>CYP2C8</b>	5 mg
451656	6 $\alpha$ -Hydroxypaclitaxel	N/A	Metabolite Standard <b>CYP2C8</b>	10 nmol
451027	Carboxytolbutamide	2224-10-4	Metabolite Standard <b>CYP2C9</b>	5 mg
451031	Hydroxymethyltolbutamide	5719-85-7	Metabolite Standard <b>CYP2C9</b>	5 mg
451019	Sulfaphenazole	526-08-9	Competitive Inhibitor <b>CYP2C9</b>	5 mg
451000	Tienilic Acid (Ticrynafen)	40180-04-9	Mechanism-based Inhibitor <b>CYP2C9</b>	5 mg
451443	4'-Hydroxydiclofenac	94118-84-9	Metabolite Standard <b>CYP2C9</b>	50 nmol
451743	4'-Hydroxydiclofenac	94118-84-9	Metabolite Standard <b>CYP2C9</b>	5 mg
451017	7-Hydroxywarfarin	17834-03-6	Metabolite Standard <b>CYP2C9</b>	5 mg
451780	Tienilic-3C-alcohol	N/A	Substrate <b>CYP2C18</b>	5 mg
451032	S-Mephenytoin	70989-04-7	Substrate <b>CYP2C19</b>	5 mg
451795	(S)-(+)-N-3-Benzylnirvanol	N/A	Competitive Inhibitor <b>CYP2C19</b>	5 mg
451033	4'-Hydroxymephenytoin	61837-65-8	Metabolite Standard <b>CYP2C19</b>	5 mg
451034	Bufuralol HCL	59652-29-8	Substrate <b>CYP2D6</b>	5 mg
451030	Dextrophan-D-Tartrate	143-98-6	Metabolite Standard <b>CYP2D6</b>	5 mg
451035	1-Hydroxybufuralol Maleate	57704-16-2	Metabolite Standard <b>CYP2D6</b>	5 mg
451036	6-Hydroxychlorzoxazone	1750-45-4	Metabolite Standard <b>CYP2E1</b>	5 mg
451025	Terfenadine Alcohol Metabolite	N/A	Substrate <b>CYP2J2</b> , <b>CYP4F12</b> , and <b>CYP3A4</b>	5 mg
451785	Azamulin	76530-44-4	Mechanism-based Inhibitor <b>CYP3A4</b>	5 mg
451023	Ketoconazole	65277-42-1	Mixed-Type Inhibitor <b>CYP3A4</b>	5 mg
451028	Midazolam	59467-70-8	Substrate <b>CYP3A4</b>	5 mg
451020	Oxidized Nifedipine	67035-22-7	Metabolite Standard <b>CYP3A4</b>	5 mg
451630	p-3'-Hydroxypaclitaxel	132160-32-8	Metabolite Standard <b>CYP3A4</b>	20 nmol
451038	1'-Hydroxymidazolam	59468-90-5	Metabolite Standard <b>CYP3A4</b>	5 mg
451029	4-Hydroxymidazolam	59468-85-8	Metabolite Standard <b>CYP3A4</b>	5 mg
451012	6 $\beta$ -Hydroxytestosterone	62-99-7	Metabolite Standard <b>CYP3A4</b>	5 mg
451022	7-Hydroxycoumarin Glucuronide (Umbelliferone Glucuronide)	N/A	Metabolite Standard <b>UGT</b>	5 mg
451024	7-Hydroxycoumarin Sulfate, K <sup>+</sup> salt	N/A	Metabolite Standard <b>SULTs</b>	5 mg

## Tissue Fractions

### Human Liver Microsome Tissue Fraction Products

#### Corning® Gentest™ Human Mixed Pooled Microsomes, Cytosol, and S9

Cat. No.	Description	Protein Concentration	Qty/Pk
452117	Mixed Gender Corning UltraPool™ 150-donor HLM (equal mix of male and female donors)	20 mg/mL	0.5 mL
452118	Mixed Gender Corning UltraPool 150-donor HLM (80 vials of 452117 packaged in an easy-count box)	20 mg/mL	0.5 mL
452116	Mixed Gender Corning UltraPool 150-donor S9	20 mg/mL	1.0 mL
452115	Mixed Gender Corning UltraPool 150-donor Cytosol	20 mg/mL	1.0 mL
452156	Mixed Gender Pool 50-donor HLM (equal mix of male and female donors)	20 mg/mL	0.5 mL
452152	Mixed 50-donor HLMs packaged in an Easy-Count Box (80 vials of 452156)	20 mg/mL	80 vials
452227	Human 50-donor Tissue Fraction Kit Includes 1 vial each of HLM, S9, and Cytosol prepared from the same 50 donors	20 mg/mL	1 kit
452161	Mixed Gender HLM Mixed Pooled (approx. 20 donors)	20 mg/mL	0.5 mL
452155	Mixed HLMs packaged in an Easy-Count Box (80 vials of 452161) (approx. 20 donors)	20 mg/mL	80 vials
452961	Mixed Gender Pooled 20-Donor S9	20 mg/mL	1.0 mL

#### Corning Gentest Human Pooled Specialty Products

Cat. No.	Description	Protein Concentration	Qty/Pk
452165	Mixed Gender Pooled CMV Negative HLM	20 mg/mL	0.5 mL
452172	Pooled Male HLM	20 mg/mL	0.5 mL
452183	Pooled Female HLM	20 mg/mL	0.5 mL
452210	Mixed Gender Pooled Intestinal Microsomes	10 mg/mL	1.0 mL

## Human Liver Microsome Tissue Fraction Products (continued)

### Corning® Gentest™ Human Individual Liver Microsomes Panel

Cat. No.	Description	Protein Concentration	Qty/Pk
452138	P450 Single Donor HLM Panel High/Low P450 Single Donor HLM Panel	20 mg/mL	0.5 mL

The most current list of donors can be found at [www.corning.com/lifesciences/admetox](http://www.corning.com/lifesciences/admetox).

### Corning Gentest Individual Allelic Variant Donor Panels

Cat. No.	Description	Protein Concentration	Qty/Pk
<b>CYP2D6</b>			
452141	CYP2D6(*3-*8) PM <sup>†</sup>	20 mg/mL	0.5 mL
<b>CYP2C9</b>			
452142	CYP2C9(*2*2), (*2*3), and (*3*3)	20 mg/mL	0.5 mL
<b>CYP2C19</b>			
452143	CYP2C19(*2-*5) PM <sup>†</sup>	20 mg/mL	0.5 mL
<b>CYP2C8</b>			
452144	CYP2C8(*3*3)	20 mg/mL	0.5 mL
<b>CYP3A5</b>			
452135	CYP3A5(*1*1) High expresser	20 mg/mL	0.5 mL
452136	CYP3A5(*1*3) High expresser	20 mg/mL	0.5 mL
452137	CYP3A5(*3*3) Wild-type Low expresser	20 mg/mL	0.5 mL
<b>UGT1A1</b>			
452132	UGT1A1(*28*28) Low expresser	20 mg/mL	0.5 mL
452133	UGT1A1(*1*28) Moderate expresser	20 mg/mL	0.5 mL
452134	UGT1A1(*1*1) Wild-type High expresser	20 mg/mL	0.5 mL

<sup>†</sup> Poor Metabolizer

**NOTE:** Orders must include donor lot number as well as catalog number. Each lot number corresponds with a specific donor. To view an up-to-date listing of donors with donor demographics, donor history, and characterization data, visit [www.corning.com/lifesciences/admetox](http://www.corning.com/lifesciences/admetox).

## Animal Liver Tissue Fraction Products

### Corning® Gentest™ Animal Pooled Liver Microsomes

Cat. No.	Description	Protein Concentration	Qty
<b>Rat Liver Microsomes</b>			
452501	Sprague-Dawley, male	20 mg/mL	0.5 mL
452502	Sprague-Dawley, female	20 mg/mL	0.5 mL
452511	Wistar Han, male	20 mg/mL	0.5 mL
452521	Fischer 344, male	20 mg/mL	0.5 mL
452522	Fischer 344, female	20 mg/mL	0.5 mL
<b>Mouse Liver Microsomes</b>			
452220	B6C3F1, male	20 mg/mL	0.5 mL
452701	CD-1, male	20 mg/mL	0.5 mL
452702	CD-1, female	20 mg/mL	0.5 mL
<b>Dog Liver Microsomes</b>			
452601	Beagle, male	20 mg/mL	0.5 mL
452602	Beagle, female	20 mg/mL	0.5 mL
<b>Monkey Liver Microsomes</b>			
452413	Cynomolgus, male	20 mg/mL	0.5 mL
452401	Cynomolgus, female	20 mg/mL	0.5 mL
452411	Cynomolgus, female, export	20 mg/mL	0.5 mL
452424	Rhesus, male	20 mg/mL	0.5 mL
452340	Marmoset, male	20 mg/mL	0.5 mL
452341	Marmoset, female	20 mg/mL	0.5 mL
<b>Guinea Pig Liver Microsomes</b>			
452311	Dunkin Hartley, male	20 mg/mL	0.5 mL
452313	Dunkin Hartley, female	20 mg/mL	0.5 mL
<b>Mini-Pig Liver Microsomes</b>			
452322	Gottigen, male	20 mg/mL	0.5 mL
<b>Rabbit Liver Microsomes</b>			
452201	New Zealand White, male	20 mg/mL	0.5 mL

**Hazard Warning:** Monkey tissue fractions are prepared from freshly frozen tissues. These materials are tested and found negative for Herpes B and SIV. It is recommended this material be considered a potential biohazard.

## Animal Liver Tissue Fraction Products (continued)

### Corning® Gentest™ Animal Pooled Liver S9

Cat. No.	Description	Protein Concentration	Qty
<b>Rat Liver S9</b>			
452591	Sprague-Dawley, male	20 mg/mL	1.0 mL
452593	Fischer 344, male	20 mg/mL	1.0 mL
452594	Fischer 344, female	20 mg/mL	1.0 mL
<b>Mouse Liver S9</b>			
452791	CD-1, male	20 mg/mL	1.0 mL
452792	CD-1, female	20 mg/mL	1.0 mL
<b>Dog Liver S9</b>			
452693	Beagle, male	20 mg/mL	1.0 mL
<b>Monkey Liver S9</b>			
452494	Cynomolgus, male	20 mg/mL	1.0 mL
452491	Cynomolgus, female	20 mg/mL	1.0 mL
452492	Cynomolgus, female, export	20 mg/mL	1.0 mL
452473	Rhesus, male	20 mg/mL	1.0 mL

### Corning Gentest Animal Liver Cytosol

Cat. No.	Description	Protein Concentration	Qty
<b>Rat Liver Cytosol</b>			
452581 (male)	Sprague-Dawley, male	20 mg/mL	1.0 mL
<b>Monkey Liver Cytosol</b>			
452461 (male)	Cynomolgus, male	20 mg/mL	1.0 mL
452462 (female)	Cynomolgus, female	20 mg/mL	1.0 mL

**Hazard Warning:** Monkey tissue fractions are prepared from freshly frozen tissues. These materials are tested and found negative for Herpes B and SIV. It is recommended this material be considered a potential biohazard.

## Primary Hepatocyte Cells

### Corning® Gentest™ Human Fresh Hepatocytes

Cat. No.	Description	Qty/Pk
<b>One Million Human Fresh Hepatocytes in Suspension</b>		
454401	10 million cells minimum order	1 million cells/vial
<b>Human Fresh Plated Hepatocytes on Corning BioCoat™ Collagen I Microplates</b>		
454406	6 well	1 plate
454412	12 well	1 plate
454424	24 well	1 plate
454425	48 well	1 plate
454496	96 well	1 plate
<b>Human Fresh Hepatocytes on Corning BioCoat Collagen I Microplates with Corning Matrigel® Overlay</b>		
454480	6 well	1 plate
454481	12 well	1 plate
454482	24 well	1 plate
454483	48 well	1 plate
454484	96 well	1 plate
<b>Human Fresh Plated Hepatocytes on Corning BioCoat Collagen I Flasks</b>		
454415	25 cm <sup>2</sup>	1 plate
454475	75 cm <sup>2</sup>	1 plate

All human tissues are prepared from donors who tested negative serologically for HIV-1, HIV-2, HTLV-1, HTLV-2, HBV, HCV, and syphilis. All tissues are subsequently tested for the same pathogens by PCR.

### Corning Gentest Human CryoHepatocytes

Cat. No.	Description	Qty/Pk
<b>Corning Gentest Inducible-Qualified Human CryoHepatocytes</b>		
454550	2-5 million cells	1.5 mL
454551	>5 million cells	1.5 mL
<i>(Contact us about P450 induction study contract services at 888.334.5229 x2246 or 781.935.5115 x2246)</i>		
<b>Corning Gentest Plateable Transporter-Qualified Human CryoHepatocytes</b>		
454541	≥5 million cells	1.5 mL
<b>Corning Gentest SLC Transporter-Qualified Human CryoHepatocytes in Suspension</b>		
454426	2-5 million cells	1.5 mL
454427	>5 million cells	1.5 mL
<b>Corning Gentest Hepatocyte Transporter Suspension Assay Kit</b>		
454460	1 Kit; Contains a detailed transporter uptake protocol, 10 mL of filtration oil, and 100 easy-to-cut centrifuge tubes	100 tests
<b>Corning Gentest Plateable Metabolism-Qualified Human CryoHepatocytes</b>		
454543	≥5 million cells	1.5 mL
<b>Corning Gentest Metabolism-Qualified Human CryoHepatocytes in Suspension</b>		
454503	2-5 million cells	1.5 mL
454504	>5 million cells	1.5 mL

## Important Ordering Information

HepatoLink® is the Corning Life Sciences immediate response system providing researchers with instant notification when Corning Gentest hepatocyte products are available. For your convenience, select a preferred contact method—email, phone, and/or SMS text alerts. Upon registration, you will be sent donor characterization data when a new lot becomes available. You can register online at [www.corning.com/lifesciences/hepatolink](http://www.corning.com/lifesciences/hepatolink). Place your order directly through Corning's online system. If you have any questions regarding Corning's program or your participation, please contact us at **978.442.2200** or email [hepatocytes@corning.com](mailto:hepatocytes@corning.com).

All Corning Gentest Fresh and CryoHepatocyte orders must be lot specific. Each lot number corresponds with a specific donor and must be included with your order. An up-to-date listing of Corning Gentest Human Fresh and CryoHepatocyte donors with donor demographics, donor history, and characterization data is maintained at [www.corning.com/lifesciences/admetox](http://www.corning.com/lifesciences/admetox).



## Corning® Gentest™ Animal CryoHepatocytes

Cat. No.	Description	Cell Quantity	Qty
<b>Rat CryoHepatocytes</b>			
454701	Sprague-Dawley, male	5 million cells	1.5 mL
454703	Sprague-Dawley, female	5 million cells	1.5 mL
<b>Mouse CryoHepatocytes</b>			
454310	CD-1, male	2 million cells	1.5 mL
<b>Dog CryoHepatocytes</b>			
454830	Beagle, male	4 million cells	1.5 mL
<b>Monkey CryoHepatocytes</b>			
454930	Cynomolgus, male	5 million cells	1.5 mL

**Hazard Warning:** Monkey tissue fractions are prepared from freshly frozen tissues. These materials are tested and found negative for Herpes B and SIV. It is recommended this material be considered a potential biohazard.

## Related Products for Hepatocyte Culture

Cat. No.	Description	Qty
454534	Corning Gentest High Viability CryoHepatocyte Recovery Kit Platable human cryopreserved hepatocyte recovery and plating medium, kit contains: 2X tubes (45 mL each) recovery media, 2X tubes (45 mL each) plating media	1 kit
454560	Corning Gentest High Viability CryoHepatocytes Recovery Medium	45 mL
454561	Corning Gentest CryoHepatocytes Plating Medium	45 mL
454500	Corning Gentest CryoHepatocyte Purification Kit Each kit allows for the purification of six individual 1.5 mL cryotubes Use two-step process for maximum cell viability	1 kit
454600	Corning Gentest CryoHepatocyte One-Step Purification Kit Each kit allows for the purification of four individual 1.5 mL cryotubes Use for fast and easy purification	1 kit
455056	Corning Hepatocyte Culture Media Kit 500 mL plus EGF supplement Use for serum-free medium to maintain hepatocyte cultures in vitro; commonly used to culture plated human fresh or cryopreserved hepatocytes on Corning BioCoat™ Rat Tail Collagen I Multiwell Plates and Flasks	500 mL
454460	Corning Gentest Hepatocyte Transporter Suspension Assay Kit Kit contains a detailed transporter uptake protocol, 10 mL of filtration oil, and 100 easy-to-cut centrifuge tubes	100 tests
40-550-CV*	Corning Hepatocyte Maintenance Medium Maintains the physiological relationships between hepatic Phase I and II drug metabolism enzymes, influx and efflux transporters, while meeting the long-term high metabolic needs of hepatocytes. Defined, animal-origin free, serum-free, and optimized for primary human hepatocytes	500 mL

\*Produced by Mediatech, Inc., a Corning subsidiary. To order, go to [www.cellgro.com](http://www.cellgro.com).

## Corning BioCoat™ Poly-D-Lysine Cultureware

Cat. No.	Description	Qty/Cs
<b>Multiwell Plates</b>		
354410	24 well	5
354461	96 well, clear plate	5

## Corning BioCoat Matrigel® Matrix Cultureware

Cat. No.	Description	Qty/Cs
354510	6 well plates	5



## Corning® BioCoat™ Rat Tail Collagen I Cultureware

Cat. No.	Description	Qty/Cs
<b>Multiwell Plates</b>		
354400	6 well	5
356400	6 well	50
354500	12 well	5
356500	12 well	50
354408	24 well	5
356408	24 well	50
354505	48 well	5
356505	48 well	50
354407	96 well Clear	5
356407	96 well Clear	50
356698	96 well Clear	80
354649	96 well Black/Clear	5
356649	96 well Black/Clear	50
356700	96 well Black/Clear	80
354650	96 well White/Clear	5
356650	96 well White/Clear	50
356701	96 well White/Clear	80
<b>Flasks</b>		
354484	25 cm <sup>2</sup> vented cap	10
356484	25 cm <sup>2</sup> vented cap	50
354485	75 cm <sup>2</sup> vented cap	5
356485	75 cm <sup>2</sup> vented cap	50
354486	150 cm <sup>2</sup> vented cap	5
356486	150 cm <sup>2</sup> vented cap	40
354487	175 cm <sup>2</sup> vented cap	5
356487	175 cm <sup>2</sup> vented cap	40

## Corning Matrigel® Basement Membrane Matrix

Cat. No.	Concentration	Qty/Cs
<b>Corning Matrigel Matrix</b>		
356234	Standard	5 mL
354234	Standard	10 mL
356235	Standard	50 mL (5 x 10 mL)
354248	High	10 mL
<b>Corning Matrigel Matrix, phenol red-free</b>		
356237	Standard	10 mL
354262	High	10 mL
<b>Corning Matrigel Matrix, Growth Factor Reduced (GFR)</b>		
356230	Standard	5 mL
354230	Standard	10 mL
354263	High	10 mL
<b>Corning Matrigel Matrix GFR, phenol red-free</b>		
356231	Standard	10 mL

## Antibodies by P450 Enzyme Family

Cat. No.	Description	Recommended Dilution	Preparation	Immunogen	Application Use	Qty
<b>CYP1A</b>						
458312	IH-MAB-1A2, Anti-human CYP1A2	n/a	Mouse monoclonal	Human CYP1A2	Human CYP1A2 Immunoinhibition	400 µL
<b>CYP2A</b>						
458106	IH-WB-MAB-2A6, Anti-human CYP2A6	1:500 with Alkaline Phosphatase Secondary or Chemiluminescence Detection	Mouse monoclonal	CYP2A Purified from Rat Liver	Human CYP2A6, detection by immunoblot. Human CYP2A6 Immunoinhibition	400 µL
<b>CYP1B</b>						
458211	WB-1B1, Anti-human CYP1B1 serum	1:500 with Enhanced Chemiluminescence Detection	Rabbit polyclonal	Peptide	Human CYP1B1, detection by immunoblot	400 µL
458511	WB-1B1, Anti-rat CYP1B1 serum	1:500 with Alkaline Phosphatase Secondary	Rabbit polyclonal	Peptide	Rat CYP1B1, detection by immunoblot	400 µL
<b>CYP2B</b>						
458326	IH-MAB-2B6, Anti-human CYP2B6	n/a	Mouse monoclonal	Human CYP2B6	Human CYP2B6 Immunoinhibition	400 µL
458226	WB-2B6, Anti-human CYP2B6 serum	1:500 with Enhanced Chemiluminescence Detection	Rabbit polyclonal	Peptide	Human CYP2B6, detection by immunoblot.	400 µL
<b>CYP2C</b>						
458328	IH-MAB-2C8, Anti-human CYP2C8	n/a	Mouse Monoclonal	Hyman CYP2C8	Human CYP2C8 Immunoinhibition	400 µL
458209	WB-2C9, Anti-human CYP2C9 serum	1:500 with Enhanced Chemiluminescence Detection	Rabbit polyclonal	Peptide	Human CYP2C9, detection by immunoblot	400 µL
458319	IH-MAB-2C19, Anti-human CYP2C19	n/a	Mouse Monoclonal	Hyman CYP2C19	Human CYP2C19 Immunoinhibition	400 µL
458219	WB-2C19, Anti-human CYP2C19 serum	1:333 with Enhanced Chemiluminescence Detection	Rabbit polyclonal	Peptide	Human CYP2C19, detection by immunoblot	400 µL
<b>CYP2D</b>						
458366	IH-MAB-2D6, Anti-human CYP2D6	n/a	Mouse Monoclonal	Human CYP2D6	Human CYP2D6 Immunoinhibition	400 µL
458246	WB-MAB-2D6, Anti-human CYP2D6	1:500 with Alkaline Phosphatase Secondary; 1:3000 with Enhanced Chemiluminescence Detection	Mouse Monoclonal	Human CYP2D6	Human CYP2D6, detection by immunoblot	400 µL

Cat. No.	Description	Recommended Dilution	Preparation	Immunogen	Application Use	Qty
<b>CYP2E</b>						
458321	IH-MAB-2E1, Anti-human CYP2E1	n/a	Mouse monoclonal	Human CYP2E1	Human CYP2E1, Immunoinhibition	400 µL
<b>CYP3A</b>						
458334	IH-MAB-3A4, Anti-human CYP3A4	n/a	Mouse monoclonal	Human CYP3A4	Human CYP3A4 detection by immunoinhibition	400 µL
458254	WB-MAB-3A, Anti-human CYP3A	1:500 with Alkaline Phosphatase Secondary; 1:3000 with Enhanced Chemiluminescence Detection	Mouse monoclonal	Human Liver Cytochrome P450 fraction	Human CYP3A4/3A5/3A7 detection by immunoblot	400 µL
458234	WB-3A4, Anti-human CYP3A4 serum	1:500 with both Alkaline Phosphatase Secondary and Enhanced Chemiluminescence Detection	Rabbit polyclonal	Peptide	Human CYP3A4/3A7 detection by immunoblot	400 µL
458235	WB-3A5, Anti-human CYP3A5 serum	1:500 with Alkaline Phosphatase Secondary; 1:3000 with Enhanced Chemiluminescence Detection	Rabbit polyclonal	Peptide	Human CYP3A5 detection by immunoblot	400 µL
<b>Antibodies for UDP-Glucuronosyl Transferases (UGTs)</b>						
458411	WB-UGT1A1, Anti-human UGT1A1 serum	1:500 with Enhanced Chemiluminescence Detection	Rabbit polyclonal	Peptide	Human UGT1A1 detection by Immunoblot	400 µL
458427	WB-UGT2B7, Anti-human UGT2B7 serum	1:500 for both Alkaline Phosphatase Secondary and Enhanced Chemiluminescence Detection	Rabbit polyclonal	Peptide	Human UGT2B7 detection by Immunoblot	400 µL

## Custom Products

In addition to the products listed in this guide, Corning has more than 20 years of experience offering Custom Special Preparations from a wide range of species and tissues. Custom products include, but are not limited to, hepatocytes, tissue fractions, and recombinant enzymes. Our custom product team handles the complete process, including tissue ordering, preparation, concentration, packaging, characterization, and delivery. For additional information, please contact [DLCustRes@corning.com](mailto:DLCustRes@corning.com) or consult your Corning Drug Discovery Sales Specialist.

# Contract Research Services

Corning® Gentest™ Contract Research Services has over 20 years experience developing services to support pharmaceutical drug discovery and development programs in the early ADME/Tox phase. Our Study Directors are highly skilled scientists with in-depth knowledge of absorption and transport, metabolism, and toxicity. This expertise gives Corning Life Sciences Study Directors the ability to partner with you to develop and deliver a broad range of ADME/Tox studies to meet your discovery and development project needs. We ensure the highest level of quality standards and adhere to current regulatory requirements and applicable FDA-sponsored guidance documents.

Utilizing state-of-the art techniques and equipment, Corning Life Sciences is able to assist our clients in screening for viable drug candidates during drug discovery or to prepare regulatory agency submission-quality reports for your drug development compounds. Let our team of experts take you to the next level with studies designed to predict drug-drug interactions and human pharmacokinetics using innovative Corning Gentest products, cell models, and methodologies.

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## Description

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### Permeability and Transport Studies

#### ABC and SLC Transporter Services

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##### Caco-2

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##### MDR1-LLC-PK<sub>1</sub>

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Studies with Corning TransportoCells™ (HEK293 cells expressing OATP1B1, OATP1B3, OAT1, OAT3, OCT1, OCT2, MATE1, MATE2K)

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### Metabolism Studies

Metabolic stability in microsomes and hepatocytes

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### Enzyme Inhibition Studies

Inhibition of Cytochrome P450 and UGT

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### Enzyme Induction Studies

P450 Studies in Human Hepatocytes (mRNA and enzyme activity endpoint; Relative Induction Scoring)

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Studies in Preclinical Species

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### Cytochrome P450, CES, and UGT Reaction Phenotyping Studies

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### Protein Binding Studies

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### Custom Studies

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For more information on Corning Gentest Contract Research Services, contact Corning Life Sciences at 888.334.5229 x2546, 781.938.2546 or contact your local Corning Drug Discovery Sales Specialist.



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

**Corning acquired the BioCoat™, Falcon®, Gentest™, HepatoLink®, Matrigel®, Supersomes™, and UltraPool™ brands.**

**Corning Incorporated  
Life Sciences**

Corning BV  
Fogostraat 12  
1060 LJ Amsterdam  
The Netherlands  
Phone: +31 0 20 659 60 51  
Fax: +31 20 659 76 73  
cceurnl@corning.com

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

**Worldwide  
Support Offices**

**ASIA/PACIFIC**

**Australia/New Zealand**  
t 0402-794-347

**China**  
t 86 21 2215 2888  
f 86 21 6215 2988

**India**  
t 91 124 4604000  
f 91 124 4604099

**Japan**

t 81 3-3586 1996  
f 81 3-3586 1291

**Korea**

t 82 2-796-9500  
f 82 2-796-9300

**Singapore**

t 65 6733-6511  
f 65 6861-2913

**Taiwan**

t 886 2-2716-0338  
f 886 2-2516-7500

**EUROPE**

**France**

t 0800 916 882  
f 0800 918 636

**Germany**

t 0800 101 1153  
f 0800 101 2427

**The Netherlands**  
t 31 20 655 79 28  
f 31 20 659 76 73

**United Kingdom**  
t 0800 376 8660  
f 0800 279 1117

**All Other European  
Countries**

t 31 (0) 20 659 60 51  
f 31 (0) 20 659 76 73

**LATIN AMERICA**

**Brasil**

t (55-11) 3089-7419  
f (55-11) 3167-0700

**Mexico**

t (52-81) 8158-8400  
f (52-81) 8313-8589

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