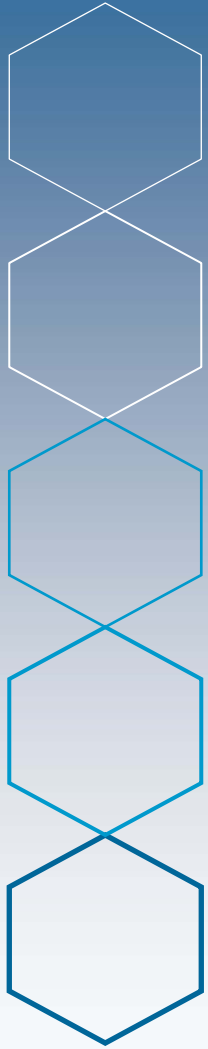


In Vitro Technologies: Company Story



Company Background

- Based in Baltimore, Maryland, USA
- Started in 1990 as a part of the “Biotech Incubator” program through UMBC

1991: 3 people living in a trailer

1995: 15 people, moved into UMBC campus

2006: 65 employees, 6 in Europe

Joined Maryland World Class Manufacturing Consortium in 2004



Products and Services CATALOG

Providing products and services to the pharmaceutical industry for 15 years

Prices effective April 15, 2005



Offering *In Vitro* Dermal Absorption Testing Services

- ◆ Chemicals
- ◆ Pharmaceutical Actives
- ◆ Cosmetics

www.invitrotech.com

Caco-2 Assay Kits



Easy Solutions Using Ready-to-Use Caco-2 Assay Kits



Caco-2 cells were originally derived from a human colonic adenocarcinoma and are a suitable model for the evaluation of intestinal absorption of drugs through paracellular, transcellular, and P-glycoprotein-mediated transport. Plating Caco-2 cells on membrane supports, such as Transwell® cell culture inserts, allows the study of apical to basolateral (A to B) and basolateral to apical (B to A) drug transport. Kits are provided in a ready-to-use, 24-well format, complete with media and transport buffer.

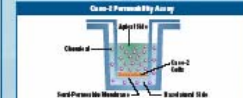
Features and Benefits

- A robust system that provides reproducible results.
- Strict quality control standards assure Caco-2 barrier function.
- Tested to be dependable so you can run experiments regularly.
- The kit comes with everything you need to run your absorption assay.
- Innovative packaging makes the cells easy to handle.

Technical Information

VT Caco-2 cultures are considered acceptable for transport studies if they meet the following criteria:

Unapparent electrical resistance (TEER)	≥ 100 ohms
Monolayer permeability	≤ 20 hR ²
Preparatory permeability	≥ 5 times the permeability of control
P-glycoprotein expression	of transport ≥ 2.5 times relative permeability in the absence of transport



Digest of the Caco-2 transport system. The cells are cultured in confluent cells on a semi-permeable membrane in a Transwell, which is placed inside another well. Generally, chemicals are added to the apical side of the Transwell separating the receptor chamber and the donor appearing in the donor chamber side. Separating systems (substrate) is measured for permeability evaluation.

Ordering Information

Product No.	Description	Size
C0021	Caco-2 Assay Kit	1 x 24 well plate
C0022	Caco-2 Assay Kit	2 x 24 well plates
C0023	Caco-2 Assay Kit	3 x 24 well plates
C0024	Caco-2 Assay Kit	4 x 24 well plates
C0025	Caco-2 Assay Kit	5 x 24 well plates

For more information about In Vitro Technologies product offerings, please visit our Web site.
To place an order, contact Customer Service at:
Toll-free (800) 488-2222 or (410) 455-1242
Fax: (410) 454-6280
E-mail: info@invitrotech.com

Introducing The Redesigned Caco-2 Assay Kit



3, 2, 1...
WE HAVE IGNITION.
WE HAVE RELAUNCH.



The company that first brought you the ready-to-use Caco-2 system delivers true innovation again. Our redesigned Caco-2 Assay Kit continues to be the *in vitro* model of choice for evaluating intestinal absorption of your compounds.

- ◆ A more robust system that provides reproducible results.
- ◆ Higher quality cells to assure Caco-2 barrier function.
- ◆ Tested to be more dependable so you can run experiments regularly.
- ◆ Better packaging that makes the cells easier to handle.
- ◆ Improved shipping conditions to transport the cells safely to you.

For more information on In Vitro Technologies product and service offerings, call Customer Service toll-free at 800-488-2222 or E-mail info@invitrotech.com.

Who Are We Selling To?

Worldwide customers: approaching 35%
of sales outside the USA in 2006

Among the top 10 Pharma:

Pfizer	Johnson & Johnson
GlaxoSmithKline	Novartis
AstraZeneca	Sanofi-Aventis
Roche	Merck
Bristol-Myers	Eli Lilly

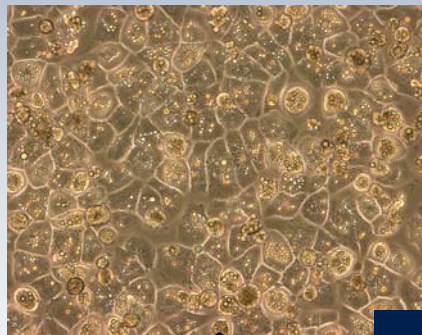
Every one was a
2004 customer
(for products
and/or services)

Our Products

Media
New product, large margins, gaining traction



Cryo cells/enzymes
Large inventory, important product, large volume buys



Plated cells



Cell suspensions



Hepatocytes
Account for about 70% of our revenues



Different formats
We supply primary cells in many different configurations

Critical Determinants for Clinical Success of a Drug Candidate

Pharmacological properties (efficacy) ↑

Physicochemical properties (formulation/stability)

ADME-Tox Properties

- absorption ↑
 - metabolic stability ↑
 - toxicity ↓
 - drug-drug interaction potential ↓
- } bioavailability ↑

Approximately 40% of drug candidates fail in clinical trials due to unanticipated pharmacokinetic and toxicology problems



The Future of IVT

IVT in midst of acquisition by Celsis International plc

Celsis is an international Analytical Services company, based in the UK with operations in St. Louis, New Jersey, Germany, and Belgium

We could not have hoped for a better strategic partner than Celsis. The synergy created by joining forces will create a strong team with great potential for future growth. This new combination will provide our respective customers with great value through a significantly expanded product and service offering. I very much look forward to working with the team at Celsis.” Dr. Paul Silber

Questions and answers

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A dark blue speech bubble with a white exclamation mark inside. The bubble has a tail pointing towards the bottom-right corner.

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