



Clinical Research and Regulatory Affairs >

Volume 24, 2007 - [Issue 1](#)

874 | 82

Views | CrossRef citations to date | Altmetric | 0

Research Article

Classification of Drug Permeability with a Caco-2 Cell Monolayer Assay

Donna A. Volpe, Patrick J. Faustino, Anthony B. Ciavarella, Ebenezer B. Asafu-Adjaye, Christopher D. Ellison, Lawrence X. Yu & ...[show all](#)

Pages 39-47 | Published online: 10 Oct 2008

Cite this article <https://doi.org/10.1080/10601330701273669>

Sample our
Bioscience
Journals
>> [Sign in here](#) to start your access
to the latest two volumes for 14 days

Full Article

Figures & data

References

Citations

Metrics

Reprints & Permissions

[Read this article](#)

Share

Abstract

In the absence of an optimized and validated protocol for the Caco-2 cell drug permeability assay, a more general approach is considered to standardize a method within a laboratory. An assay was evaluated using over 20 model drugs to assess its ability to classify drugs as high or low permeability. This cell culture method is considered to be useful as it established a relationship between experimental permeability values and extent of absorption. This represents an application of regulatory specifications to demonstrate that a cell model is able to determine the permeability class of a drug substance.

[< Previous article](#)

[View issue table of contents](#)

[Next article >](#)

Notes

[6] Center for Drug Evaluation and Research, Food and Drug Administration. Guidance for Industry. "Waiver of In Vivo Bioavailability and Bioequivalence Studies for Immediate Release Solid Oral Dosage Forms Based on a Biopharmaceutics Classification System," 2000.

Related research

People also read

Recommended articles

Cited by
82

Information for

[Authors](#)

[R&D professionals](#)

[Editors](#)

[Librarians](#)

[Societies](#)

Opportunities

[Reprints and e-prints](#)

[Advertising solutions](#)

[Accelerated publication](#)

[Corporate access solutions](#)

Open access

[Overview](#)

[Open journals](#)

[Open Select](#)

[Dove Medical Press](#)

[F1000Research](#)

Help and information

[Help and contact](#)

[Newsroom](#)

[All journals](#)

[Books](#)

Keep up to date

Register to receive personalised research and resources by email



Sign me up



Copyright © 2026 Informa UK Limited [Privacy policy](#)

[Cookies](#) [Terms & conditions](#) [Accessibility](#)

Registered in England & Wales No. 01072954
5 Howick Place | London | SW1P 1WG



Taylor & Francis
by informa