Corning®
BioCoat™
Angiogenesis
System:
Endothelial
Cell Invasion

Evaluate and quantify using real-time fluorescence and non-destructive sample preparation.

The Corning BioCoat Angiogenesis System: Endothelial Cell Invasion is an integrated, automation-friendly cell culture insert system designed to automate endothelial cell invasion assays with real-time fluorescence and non-destructive sample detection. Unlike traditional in vitro cell invasion assays, the Corning BioCoat Angiogenesis System: Endothelial Cell Invasion allows rapid data collection without the need for plate washing or tedious manual cell scraping and counting. This versatile system consists of a patented light-tight Corning FluoroBlok™ PET membrane (3.0 µm pore size) that effectively blocks the transmission of light from 490-700 nm. The Corning FluoroBlok membrane is uniformly coated with Corning Matrigel® Matrix that serves as a reconstituted authentic basement membrane in vitro. The uniform layer of Corning Matrigel Matrix provides an appropriate protein structure that is a true barrier to non-invasive cells, but allows invasive endothelial cells to penetrate and pass through the Corning FluoroBlok membrane.

Since the Corning FluoroBlok membrane effectively blocks the fluorescence of labeled cells that have not invaded through the membrane, only those cells that appear on the underside of the Corning FluoroBlok membrane are quantitated by fluorescence, providing a signal that can be directly correlated to cell number.

HMVEC Invasion Through Corning BioCoat Angiogenesis System: Endothelial Cell Invasion

Human microvascular endothelial cells (HMVECs) were placed in the Corning BioCoat Angiogenesis System: Endothelial Cell Invasion in either the absence (control) or presence of serum and allowed to invade for 22±1 hour. Cells were labeled post-invasion with Calcein AM and visualized using an Olympus IMT-2 phase epifluorescent microscope. Images were captured using iPM Win 4.0 software.
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Lot-to-Lot Reproducibility

Discover the Advantages and Ease of Screening for Pro- and Anti-Angiogenic Compounds

By combining the benefits of Corning Matrigel® Matrix with the fluorescence blocking membrane properties of the Corning FluoroBlok™ 24-Multiwell Insert System, screening for prospective pro- and anti-angiogenic compounds can be automated and reproducibly quantitated. The ease and efficiency of using this proprietary system offers increased productivity and sample throughput for quantitative comparison of multiple samples. The Corning BioCoat Angiogenesis System: Endothelial Cell Invasion is available in a 24-Multiwell Insert Plate format that is compatible with most fluorescence plate readers, robots, and fluid handlers.

Assay-to-Assay Reproducibility

Quality Control

Each lot of Corning BioCoat Angiogenesis System: Endothelial Cell Invasion is tested for its ability to allow invasion of HMEC-1 cells, an invasive human microvascular endothelial cell line, and to exclude invasion of NIH 3T3 cells, a non-invasive fibroblast cell line. All lots are tested and found negative for bacteria and fungi.

Storage and Stability

Product is shipped on dry ice. Upon receipt, store immediately at -20°C. Stable for at least three months from date of shipment.

Ordering Information

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<th>Cat. No.</th>
<th>Description</th>
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For a complete listing of Corning BioCoat products, please visit our website.

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:
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. For additional Corning product, technical, or distributor information, call 978.442.2200.

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.

Corning acquired the BioCoat™, FluoroBlok™, and Matrigel® brands.

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