Certificate of Analysis

Corning® BioCoat™ Matrigel® Invasion Chamber

Corning BioCoat Matrigel Invasion Chambers provide cells with conditions that allow assessment of their invasive property *in vitro*. The Matrigel Invasion Chambers consist of Falcon® Cell Culture Inserts containing an 8 micron pore size PET membrane that has been treated with Matrigel Matrix. The layer of Matrigel Matrix serves as a reconstituted basement membrane *in vitro*. This uniform layer occludes the pores of the membrane, blocking non-invasive cells from migrating through the membrane. By contrast, invasive cells (malignant and non-malignant cells) are able to detach themselves from and migrate through the Matrigel Matrix-treated membrane. The membrane may be processed by standard procedures for light and electron microscopy and can be easily removed after staining, or for counting radioactivity. Matrigel Invasion Chambers are provided in Falcon Companion Tissue Culture Plates, making it a convenient, ready-to-use system to study cell invasion *in vitro*.

Applications

Specific applications include assessment of the metastatic potential of tumor cells [1,2], inhibition of metastasis by ECM components [3,4], or antineoplastic drugs [5,6], and altered expression of proteins in metastatic cells [7,8,9,10,11,12]. The Corning BioCoat Matrigel Invasion Chamber has also been used to study the invasion of normal cells, such as neutrophils [13,14], eosinophils [15,16], and endothelial cells[17,18].

CATALOG NUMBER:	354480	LOT NUMBER: 4300010
SIZE:	24-well plate	
PLASTICWARE:	Falcon Cell Culture Inserts with an 8 micron pore size PET membrane and Falcon 24-well multiwell companion plate.	
EXTRACELLULAR MATRIX:	Matrigel Matrix is a solubilized basement membrane preparation extracted from Engelbreth-Holm-Swarm (EHS) mouse sarcoma. It contains laminin, collagen type IV, heparan sulfate proteoglycan, entactin and growth factors, including TGF beta, basic FGF and others which occur naturally in the EHS tumor.	
QUANTITY:	Two 24-well multiwell plates, each containing 12 chambers coated with Matrigel Matrix.	
CHAMBER SIZE:	6.4 mm	
MEMBRANE SURFACE AREA:	0.3 square centimeters	
USE:	Remove the package from **-20°C** storage and allow to equilibrate to room temperature.	
	Add 500 microliters of warm (37°C) bicarbonate based culture medium to the interior of the insert. Allow to rehydrate for **2 hours** in humidified tissue culture	

Discovery Labware, Inc., Two Oak Park, Bedford, MA 01730, Tel: 1.978.442.2200 (U.S.)
CLSTechServ@Corning.com www.corning.com/lifesciences

CORNING

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

incubator, 37°C, 5% CO_2 atmosphere. After rehydration, carefully remove the medium from the insert.. The chamber is now ready for use.

QUALITY CONTROL: Each lot is tested for its ability to allow invasion of HT-1080 cells, an invasive human fibrosarcoma cell line, and to exclude invasion of 3T3 cells, a non-invasive fibroblast cell line.

Tested and found negative for the presence of bacteria and fungi.

STORAGE: Stable when stored at -20 °C. Avoid multiple freeze-thaws. Do not store in frost-free freezer. **KEEP FROZEN**

EXPIRATION DATE: December 21, 2015

REFERENCES:

1. Albini, A. et al., Cancer Research, **47**:3239 (1987).
2. Albini, A. et al., Pathol. Oncol. Research, 406:532 (2000).
3. Kobayshi, H. et al., Cancer Research, **52**:3610 (1992).
4. Yoshida, N., et al., Br. J. Cancer, **80**:1898 (1999).
5. Melchiori, A. et al., Cancer Research, **52**:2352 (1992).
6. Parkkila. S., et al., Pro. Natl. Acad. Sci. USA, **97**:92220 (2000).
7. Sterms, M. and Want, M., Cancer Research, **47**:3776 (1992).
8. Clarke, E.A. et al., Nature, **406**:532 (2000)
9. Dohadwala et al., J Biol. Chem., **276**:20809 (2001).
10. Graff, J.R. et al., J Biol. Chem., **275**:2727 (2000).
11. Jessani et al., Pro. Natl. Acad. Sci. USA, **99**:10335 (2002).
12. Kawai, N., et al., Gastroenterology **122**:331(2002).
13. Delacourt, C., et al., A. J. Respir.Cell Mol. Biol. **26**:290 (2002).
14. Keck, T., et al., Gastroenterology 122:188 (2002).
15. Guilbert, M et al., A. J. Respir.Cell Mol. Biol. **21**:97 (1999).
16. Okada, S., et al., A. J. Respir.Cell Mol. Biol. **17**:519 (1997).
17. Hashida, H., et al., Gastroenterology **122**:376(2002).
18. Maldonado, C. J., Pathol. Oncol. Research, **4**:225 (1998).

California Proposition 65 Notice

WARNING:	This product contains a chemical known to the state of California to cause cancer.
Component:	**Chloroform**

Quality Assurance

Date

Discovery Labware, Inc., Two Oak Park, Bedford, MA 01730, Tel: 1.978.442.2200 (U.S.)
CLSTechServ@Corning.com www.corning.com/lifesciences

CORNING

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

LOT NUMBER: 4300010