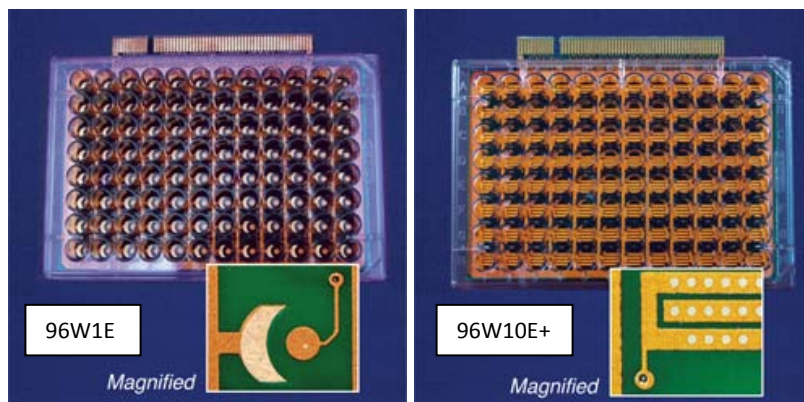


**FOR IMMEDIATE RELEASE**

### **Label Free Barrier Function Measurements in 96 Well Plates**

**October 5, 2009 Applied BioPhysics**, an analytical instrument manufacturer in Troy NY, introduces a 96 well system to measure barrier function of cell monolayers in culture.



The ECIS Ztheta 96 well system provides researchers the ability to monitor cell behavior in real time, without the use of labels and in a standard 96 well format. Complex impedance data is gathered automatically at different AC frequencies by the system. Once data has been acquired, with a few clicks of a mouse, one can call up an established mathematical model to further refine the data into cell-based parameters. One of these parameters is the barrier function of confluent cell layers. The ECIS system effectively measures this property even of cell layers with weak cell-cell interactions, and proven to be especially useful in studies of endothelial cell layers.

The concept of using impedance to follow the real-time behavior of cells in culture was pioneered by Applied BioPhysics over 15 years ago.

Published applications using ECIS in addition to endothelial barrier function include measurements of extravasation of normal cell layers by metastatic cells, signal transduction, cell-ECM interactions, cytotoxicity, cytopathic effects of infectious agents and cell proliferation.

The ECIS systems also include the popular electrical wound-healing assay that replaces the antiquated scrape method to automatically measures cell migration without opening the door of the cell incubator.

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