

The xCELLigence System Real-Time Cell Analyzer

Greater Insight, True Understanding



Obtain more information than ever before. Acquire data that end-point analysis could never realize, and advance your cell-based research. Expand your resources with the revolutionary xCELLigence System from Roche Applied Science.

Perform real-time cell-based assays that provide:

- Results, not possible with end-point analysis
- More meaningful information from a single experiment
- Label-free and non-invasive detection of cell events

and reach new horizons in cellular analysis.

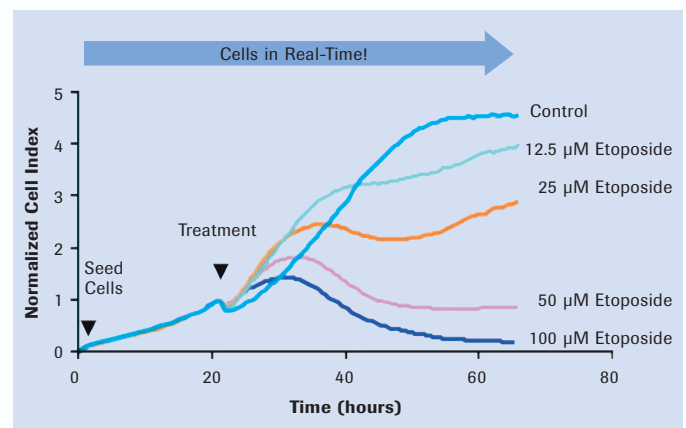


Figure 1: Real-time monitoring of cytotoxicity through DNA damage. Etoposide is a DNA damaging agent which induces apoptosis in high concentrations, while at lower concentrations it leads to S-Phase and/or G2 arrest.

The xCELLigence System

Greater Insight, True Understanding

Don't miss the cellular effects that you want to analyze. Use this powerful new technology to improve your cellular analysis and generate more physiologically relevant data.

Use the xCELLigence System to dynamically monitor the rate and onset of

■ Cell Death and Cytotoxicity

Use the impedance technology to generate physiologically more relevant data with living cells, and monitor

■ Cell Viability and Proliferation

The xCELLigence System provides sensitive and functional monitoring of

■ Receptor-mediated Signaling

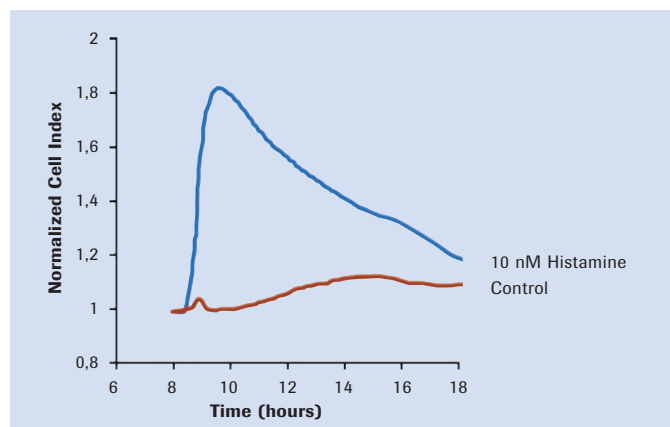


Figure 2: Real-time monitoring of the histamine H1 receptor (Gq) activation expressed in the CHO cell line.

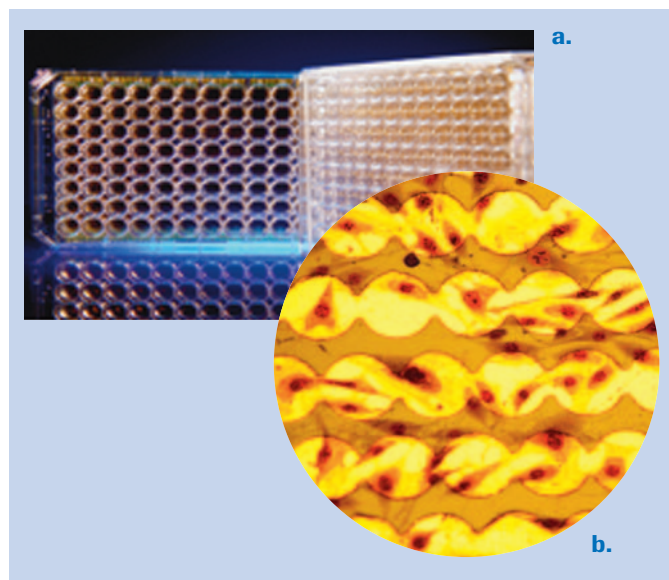


Figure 3: The E-Plate. The 96 well plate is an SBS standard dimension tissue culture plate (a). The bottoms of each well have 80% of the surface area covered by interdigitated gold microelectrodes (b).

The E-Plate features an innovative micro-electrode configuration that covers 80% of each well bottom's surface area (Figure 3). Impedance across the electrodes is measured in real time, providing sensitive, immediate detection of the cellular condition and response from low cell numbers to confluency.

Learn more about our cutting-edge technologies and visit www.xcelligence.roche.com or contact your local Roche representative today!

XCELLIGENCE is a trademark of Roche.

E-PLATE is a registered trademark of ACEA in the US.

Other brands or product names are trademarks of their respective holders.

Intended use: For life science research only. Not for use in diagnostic procedures. FOR *IN VITRO* USE ONLY.

Published by

Roche Diagnostics GmbH
Roche Applied Science
68298 Mannheim
Germany

© 2008 Roche Diagnostics
All rights reserved.

05230454001 0408