

# Agilent xCELLigence RTCA DP

## Are you using the right time point?

Increased flexibility, complete data and more insight into cell health and behavior



Real-time, label-free cell monitoring outperforms end-point analysis to advance discovery at your pace.



### xCELLigence RTCA E-Plate 16: Cellular assays in a 16-well format

Quantitatively monitor assays in real time:

- Cell adhesion
- Compound- and cell-mediated cytotoxicity
- Cell proliferation and differentiation
- Receptor-mediated signaling

### xCELLigence RTCA E-Plate VIEW 16: Visualize cells with ease

Use a modified version of the E-plate 16 for the inspection of cells using microscopes.

### xCELLigence RTCA CIM-Plate 16: Quantitative cell invasion/migration (CIM) analysis

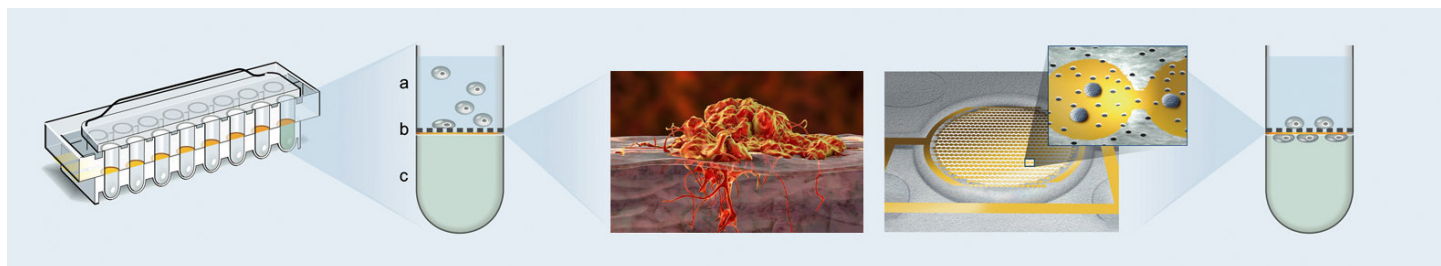
Benefit from the following features:

- Identify optimal migration and invasion time points.
- Eliminate time-consuming manual detection.
- Perform CIM analysis in a convenient one-well system

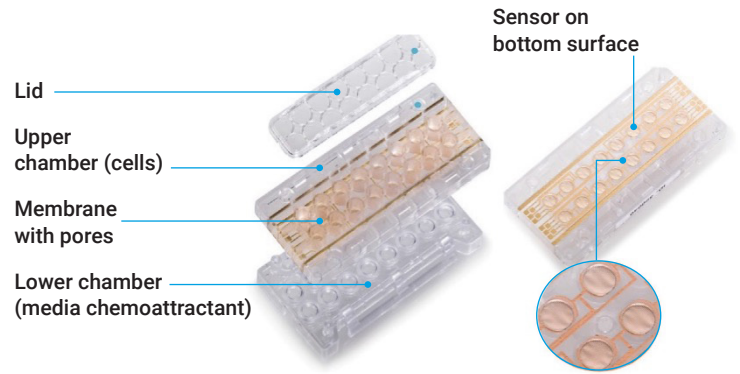
### xCELLigence RTCA E-Plate VIEW 16: Coculture in real time

Continuously monitor indirect cell-cell interactions under physiological conditions.

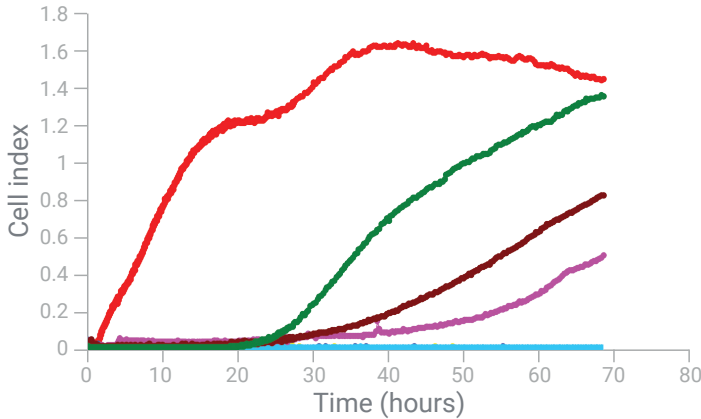
### Overview of the xCELLigence RTCA CIM-Plate technology



The CIM-Plate features two separable sections for easy experimental setup. Cells seeded in the upper chamber move through the microporous membrane into the lower chamber that contains a chemoattractant. Cells adhering to the microelectrode sensors lead to an increase in impedance, measured in real time by the xCELLigence RTCA DP.



## Invasion/migration analysis in CIM-Plates



- NC: No coating
- No chemo: Serum-free media
- MG: Matrigel
- 5% serum: Chemoattractant
- NC, 5% serum
- 1:20 MG, no chemo
- 1:5 MG, 5% serum
- 1:6 MG, 5% serum
- 1:10 MG, 5% serum

Example of data obtained using CIM-Plates: HT1080 cells ( $2 \times 10^4$ ) were seeded in the upper chamber of CIM-Plate wells that were either coated with varying dilutions of Matrigel or uncoated. Serum was added to the lower chamber of selected wells as a chemoattractant.

Invasion was observed and migration was monitored continuously over a 70-hour period. The serum-free samples resulted in base-line Cell Index levels, while those wells with chemoattractant induced invasion/migration that was delayed in proportion to Matrigel density.

## Ordering information

Description	Pack size	Part number
Agilent xCELLigence RTCA DP bundle	1 bundled package includes: 1 Agilent xCELLigence RTCA DP instrument (5469759001), 1 control unit (standard laptop PC, 5454417001AA), 3 xCELLigence RTCA Software Pro basic single license keys (5454433001), 1 box of E-Plate 16 PET (300600890), and 1 box of CIM-Plate 16 (5665817001)	380601050
Agilent xCELLigence RTCA E-Plate 16 PET	1 × 6 plates	300600890
Agilent xCELLigence RTCA E-Plate 16 PET	6 × 6 plates	300600880
Agilent xCELLigence RTCA E-Plate VIEW 16	1 × 6 plates	300601140
Agilent xCELLigence RTCA E-Plate VIEW 16	6 × 6 plates	300601150
Agilent xCELLigence RTCA E-Plate 16	1 × 6 plates	5469830001
Agilent xCELLigence RTCA E-Plate 16	6 × 6 plates	5469813001
Agilent xCELLigence RTCA E-Plate Insert 16	1 × 6 units	6465382001
Agilent xCELLigence RTCA CIM-Plate 16	1 × 6 plates	5665817001
Agilent xCELLigence RTCA CIM-Plate 16	6 × 6 plates	5665825001
CIM-Plate 16 Assembly Tool	1 piece	5665841001
Agilent xCELLigence RTCA Software basic single license key DP/SP/MP	1 license	5454433001
Agilent xCELLigence RTCA Software basic single license key DP/SP/MP	Site license (20 seats)	310100200
Agilent xCELLigence RTCA Software, IMT single license for DP	1 license	310100270

Description	Pack size	Part number
Agilent xCELLigence RTCA Software, IMT site license for DP	Site license (20 seats)	310100280
Agilent xCELLigence RTCA Software, compliance single license key	1 license	S2807-90004
Agilent xCELLigence RTCA Software, compliance site license key	Site license (20 seats)	S2807-90005
Agilent xCELLigence RTCA Software, virology single license key for iC/S16, DP, SP, MP, and HT	1 license	S2807-90089
Agilent xCELLigence RTCA Software, virology site license key for iC/S16, DP, SP, MP, and HT	Site license (20 seats)	S2807-90086



[Learn more](#) about Agilent xCELLigence DP technology and its broad range of applications.

[www.agilent.com](http://www.agilent.com)

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

RA45623.3217592593

This information is subject to change without notice.

© Agilent Technologies, Inc. 2024  
Published in the USA, December 9, 2024  
5994-7127ENUC

Distributed by Fisher Scientific. Contact us today:

**In the United States**

Order online: [fishersci.com](http://fishersci.com)

Call customer service: 1-800-766-7000

**In Canada**

Order online: [fishersci.ca](http://fishersci.ca)

Call customer service: 1-800-234-7437

