

xCELLigence RTCA HT with BioSpa 8 Automated Incubator

HTS Expanded. Peace of mind.

Coming Soon in July 2022.



BioSpa 8 transfers microplates from its incubator to the xCELLigence RTCA HT Station.

Label Free, High Throughput, Real Time Cell Analysis

Agilent xCELLigence RTCA HT instrument with Agilent BioTek BioSpa 8 automated incubator integration expands screening throughput of your RTCA HT instrument to eight 384-well plates. Label-free high-throughput xCELLigence Real-Time Cell Analysis workflows is ideal for infectious viral assays and rapid neutralizing antibody screening with minimal hands-on time.

Features

- xCELLigence utilizes impedance biosensor technology for label-free monitoring of cell health and viability
- RTCA HT instrument with BioSpa integration expands the throughput to eight 384-well plates
- BioSpa provides real time temperature and CO₂/O₂ control, with humidity monitoring
- One Simple RTCA software for on-line and off-line data analysis

Typical Applications

- Compound mediated cytotoxicity assay
- Viral-mediated cytopathic effect (CPE)
- Neutralizing antibody screening
- Antiviral drug screening
- Immune cell potency assay
- Antibody-depend cell-mediate cytotoxicity (ADCC) assays

The HT-BioSpa integration provides

The HT-BioSpa integration provides a simple workflow for increased throughput and screening flexibility with physiologically relevant data.

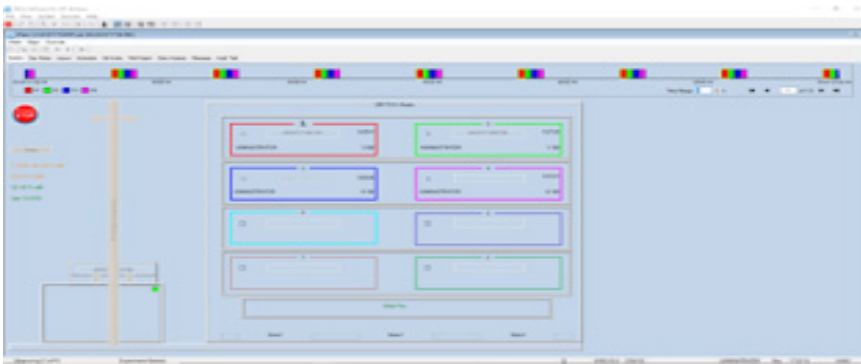


Figure 1. System setup in RTCA Software Pro.

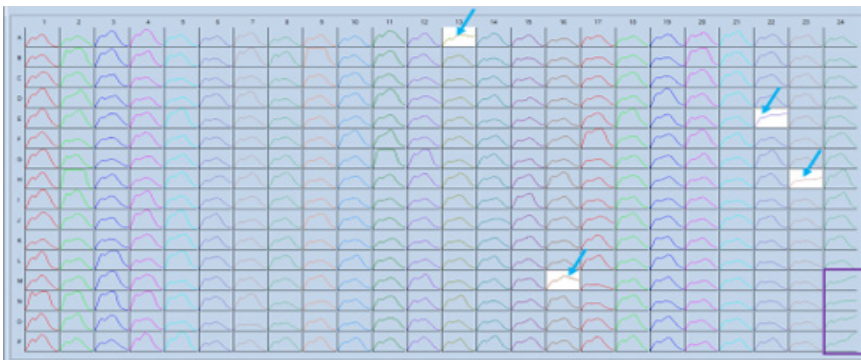


Figure 2. Representative 384-well plate with *neutralizing antibody* screening. Wells with high neutralizing activity are highlighted and noted by the blue arrows. The purple rectangle displays no virus control wells.

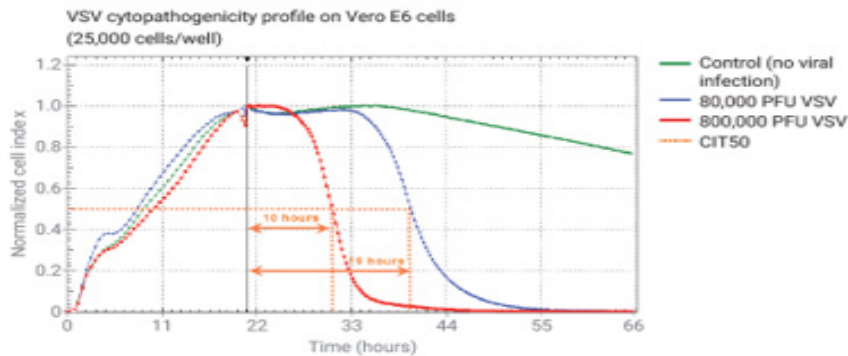


Figure 3. The virus-mediated effect on adhesion, spreading, and proliferation of the cells was monitored by measuring cell impedance every 15 minutes using the RTCA SP instrument. Time of addition of virus at 20.5 hours is indicated by the black vertical line. The time point when the CI value had decreased to 50% of the maximum (CI50) value is indicated by the dotted orange lines.

Learn more:

<https://explore.agilent.com/HTBioSpaSLAS>

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