

Agilent xCELLigence Real-Time Cell Analyzer HT-Biotek BioSpa 8

High-throughput screening expanded



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

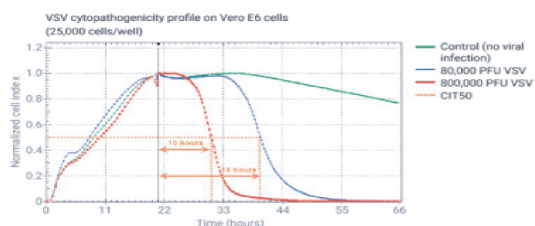


Figure 1. The virus-mediated cytopathic effect on Vero E6 cells was monitored by the Agilent xCELLigence RTCA technology. Virus was added at 20.5 hours, indicated by the black vertical line. Dotted orange lines indicate the time CI decreased to 50% of the maximum (CI50).

Label-free, high-throughput, real-time cell analysis

Integration of two Agilent instruments—the xCELLigence RTCA HT instrument and the BioTek BioSpa 8 automated incubator—expands already high throughput to eight 384-well plates. xCELLigence real-time cell analysis workflows are ideal for label-free, high-throughput infectious viral assays and neutralizing antibody screening with minimal hands-on time.

Features

- Impedance biosensor technology for label-free monitoring of cell health and viability.
- Expands the throughput to eight 384-well plates.
- Real-time temperature and CO₂/O₂ control, with humidity monitoring.
- One software for on-line and off-line data analysis.

Typical applications

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

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

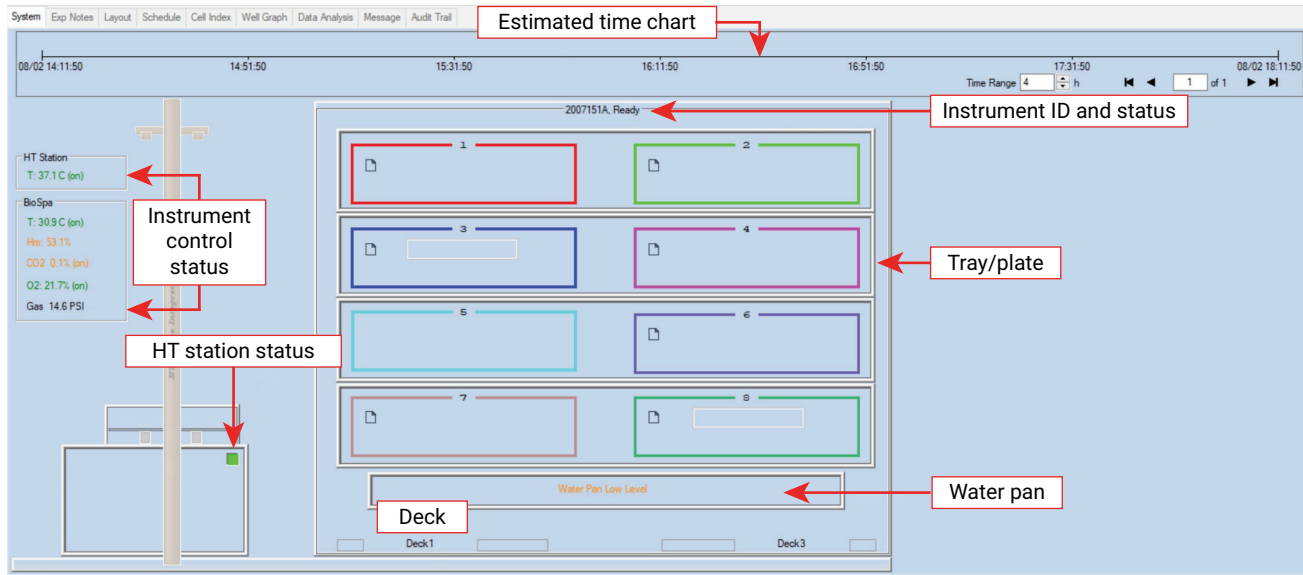


Figure 2. System setup in RTCA Software Pro (HT BioSpa).

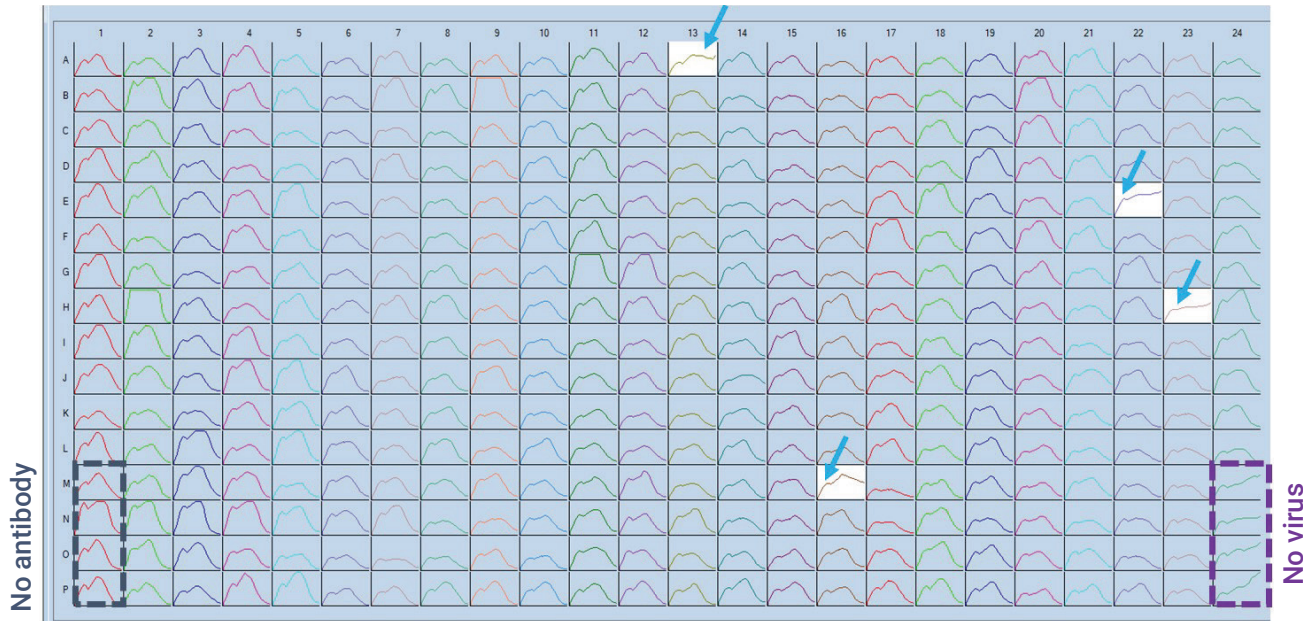


Figure 3. Representative 384-well plate with neutralizing antibody screening. Wells with high neutralizing activity are highlighted and noted by the blue arrows. The purple rectangle displays wells without virus control.

Learn more:

<https://www.agilent.com/en/product/cell-analysis/real-time-cell-analysis/rtca-analyzers/xcelligence-rtca-ht-biotek-biospa8-screening-model-3460595>

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