

Revolutionize the way you monitor the barrier function of cells!

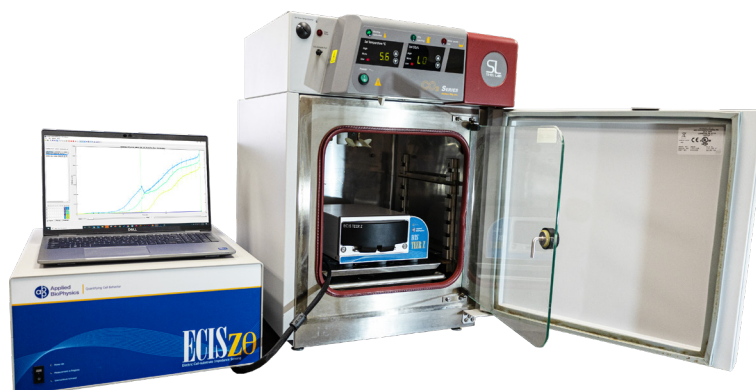


ECIS[®] TEER Z

Continuous, Real-time TEER Measurement System

- TEER in 24 or 96-well format
- TEER monitored under standard cell incubation
- Non-invasive measurement
- Uses Corning[®], Millipore[®] or MatTek[®] cell-culture insert plates
- Read 96 wells in under 5 minutes

Introducing our cutting-edge system that revolutionizes the way you monitor the barrier function of epithelial and endothelial cells! Experience seamless and repeatable label-free automated transepithelial electrical resistance (TEER) measurements, allowing you to electrically track cell layers in real-time. Grow your cells with confidence in up to 96 wells under normal CO₂ high-humidity incubators, while our system continuously collects data and provides precise reports on TEER changes in ohm-cm². Stay ahead in cellular research with the power of

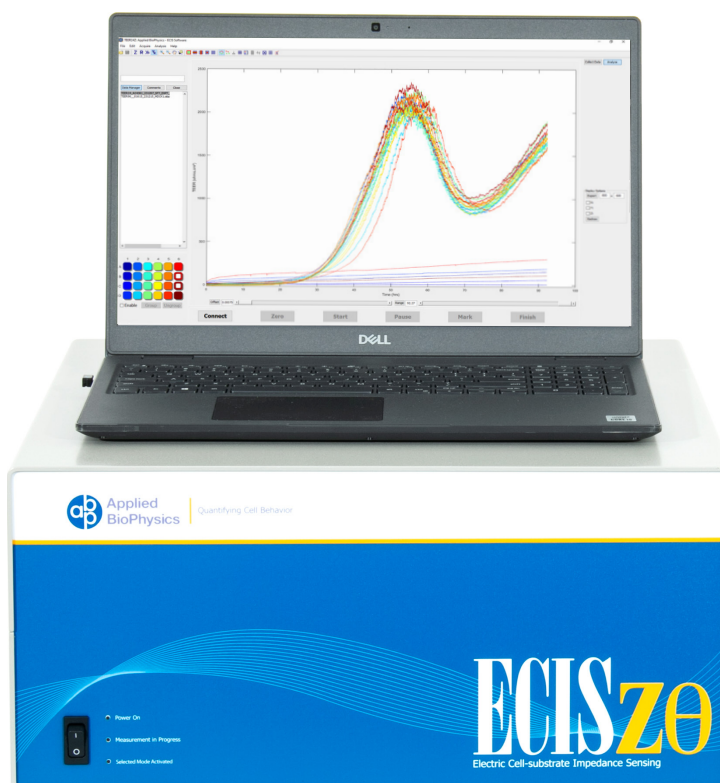


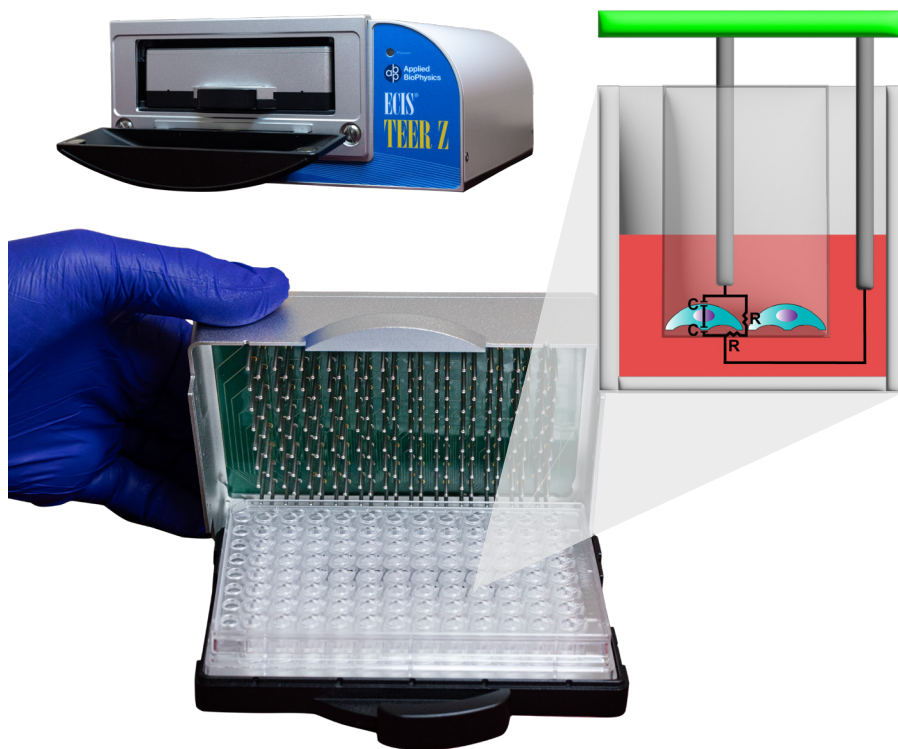
User Friendly Software

- TEER values vs time graph
- Click-button initiation
- Color-coded well mapping
- Stores values without cells (flat-fielding)
- Group average and compare data
- Statistical error bars
- Data output in CSV or graphics files (e.g. JPEG, TIFF)

Specifications

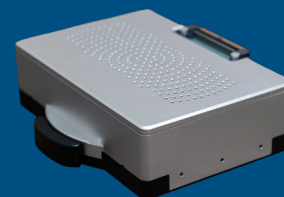
- Reads 24 or 96-well filter plates
- Medical-grade Stainless Steel electrode dipping pins
- 75 Hz sinusoidal excitation
- Power: < 2 watts, 12 V dc
- Station: 30 x 13 x 25 cm
- Controller: 48.3 x 43.2 x 21.6 cm
- Windows PC with ECIS® Software





ECIS® TEER Z Cartridge

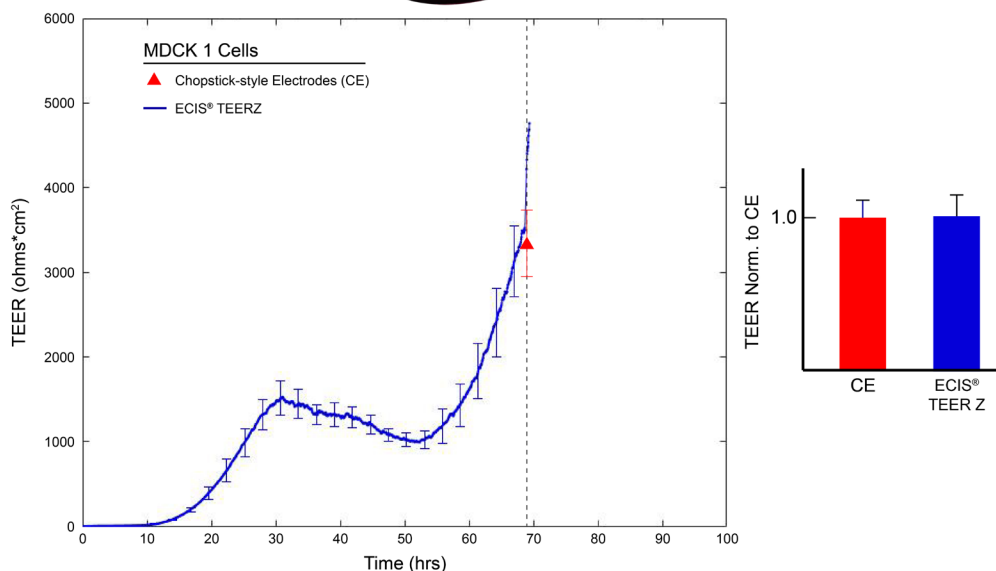
With the ECIS® TEER Z Cartridge, seamlessly transition your cell culture plate from the incubator to the cell culture hood and back while ensuring a sterile environment is maintained. The upper section of the plate features pairs of medical-grade stainless steel dipping pins for easy and precise insertion into each well of the filter plate. Elevate your cell culture workflow with efficiency and sterility in mind.



ECIS® TEER Z vs. Traditional Methods

Explore groundbreaking insights into the cell-cell junctional barrier development of cell monolayers with our innovative ECIS® TEER Z instrument.

The figure to the left displays an example of this with MDCK-I cells as they form their barrier junctions represented by TEER, meticulously monitored for over 60 hours from the moment of seeding. To ensure precision, traditional chopstick electrode probes (CE) were employed for verification (depicted by the red triangle). The accompanying bar chart presents TEER normalized to CE, offering a clear comparison with the ECIS® TEER Z at the same time points. Uncover the power of accurate and reliable monitoring for your cell's TEER values.





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