Applied BioPhysics

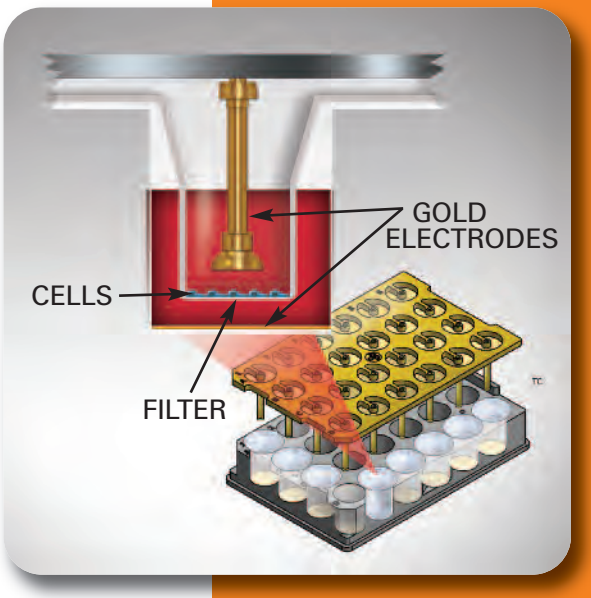
TEER 24

Barrier Function Measurement System

Continuous real-time TEER

10–1,000 ohm-cm^2

- Continuous long-term measurement of TEER from under 10 to 1,000 ohm cm^2 in up to 24 wells
- Uses standard commercially available 24 Well membrane inserts
- Fast barrier function dynamics can be monitored
- Accurately measures endothelial and epithelial barrier function
- Located in incubator for long term experiments
- Real time visualization of TEER; control of sampling rate
- Group average and compare data
- Up to 24 wells can be simultaneously displayed and analyzed
- Export data to Excel or other statistical programs
- Data output in CSV or graphical (JPEG, TIFF)



TEER 24 uses standard 6mm filter inserts.

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TEER 24

This system provides repeatable, label free automated TEER measurements to electrically monitor the barrier function of epithelial and endothelial cells as they are grown in normal CO_2 high humidity incubators. Data is collected continuously and reported as real-time changes in barrier function of cell layers in ohm-cm².

User friendly software

CONNECT Confirms wells are connected

ZERO Stores values without cells (flat-fielding).

SETREF Select at least 1 cell free reference well to monitor and compensate for incubator changes

START Inoculate filters and begin measurement of selected wells

MARK Inserts notes with time in the data file

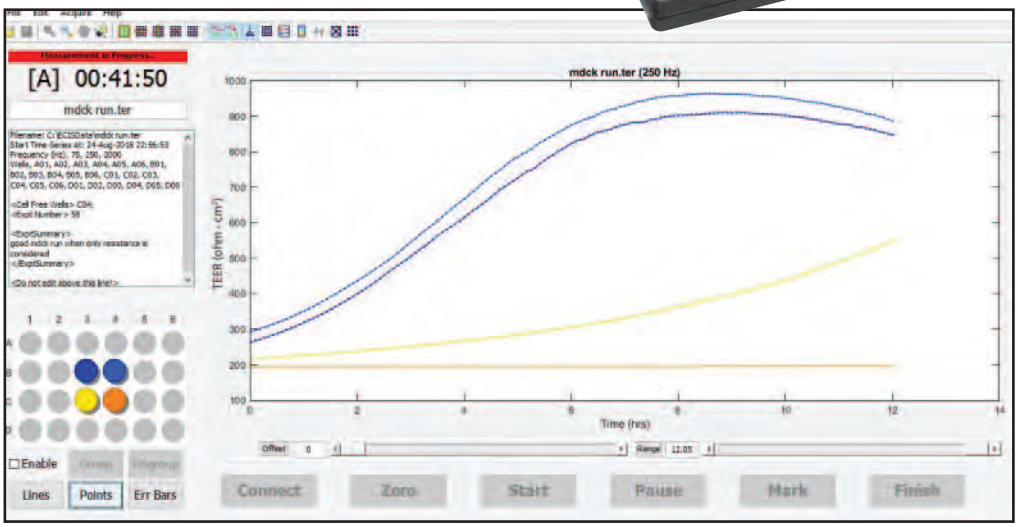
PAUSE Clock remains running, data collection paused, recheck connections before resuming

Specifications:

- 24 well microplates use standard 6mm filters
- Gold electrodes
- 75Hz sinusoidal excitation
- 24 well dipping assembly can autoclaved or oven sterilized
- Station dimensions 10 x 3 x 15cm
- Power: <1 watt, 12 V dc
- Station: 25.5 x 18 x 4.5 cm, 2.3kg
- Controller: 21.5 x 18 x 4.5 cm, 2kg
- Windows 10 OS

System includes:

- TEER 24 station located in CO2 incubator
- Stainless steel plate assembly with 24 gold plated dipping pins
- External control module
- Laptop PC
- ECIS acquisition, control and display software
- Validation test array
- Four TEER 24 consumable microplate arrays



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