Barrier Function Measurement System
Continuous Real-time TEER 10-1,000 ohm-cm²

- Continuous long-term measurement of TEER from under 10 to 1,000 ohm cm² in up to 96 wells
- Non-invasive AC measurement
- Automated dipping pin insertion
- Can be robotically loaded
- Choose between single time point or continuous measurements
- Uses Millipore 96-well filter plates
- Fast barrier function dynamics can be monitored
- Accurately measures endothelial and epithelial barrier function
- Real time visualization of TEER; control of sampling rate
- Up to 96 wells can be simultaneously displayed and analyzed
- Export data to Excel or other statistical programs

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 CO2 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
- TEER values vs time graph
- Click-button initiation
- Color-coded well mapping
- Stores values without cells (flat-f lining)
- Group average and compare data
- Statistical error bars
- Data output in CSV or graphical (JPEG, TIFF)

Specifications
- Millipore Millipcell-96 well plates
- Gold electrodes dipping pins
- 75 Hz sinusoidal excitation
- Power: < 2 watts, 12 V dc
- Station: 29.2 x 11.1 x 25.4 cm
- Controller: 29.8 x 9.2 x 21.3 cm
- Windows 10 OS

System Includes:
- TEER 96 station
- Station Controller w/Power Supply
- Motion Controller w/Power Supply
- Laptop PC w/TEER96 software installed
- TEER96 validation array
- Spare 96 dipping pin assembly
- Bar code scanner
- Bar code labels for culture filter plates
- 6 Millipore Millicell-96 cell culture filter plates
- 2 USB cables, LEMO cable, 2 Multi pin RS232

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