Comprehensive Solutions

Optimize Your Cell Analysis Workflow with the Leader in TEER Technology

1 CELL COUNTING

CELL COUNTING
WPI Cell Counter - Coming Soon!

2 CELL SEEDING & INSPECTION

LIVE CELL IMAGING
Celloger® Mini Plus
Celloger® Pro
Celloger® Nano
Celloger® Stack

CELL GROWTH
EVOM™ Warming Plate

3 CELL GROWTH & PROLIFERATION

TEER MEASUREMENT
EVOM™ Auto
EVOM™ Manual
EVOM™ Warming Plate

CELL INSPECTION
Microscopy
Celloger Pro

CELL GROWTH/ PROLIFERATION ASSAY
Absorbance/Fluorescent Plate Reader

4 CELLULAR FUNCTIONAL ANALYSIS

TEER MEASUREMENT
EVOM™ Auto
EVOM™ Manual
EVOM™ Warming Plate

CELL VIABILITY ASSAY
Absorbance/Fluorescent Plate Reader

PERMEABILITY
Fluorescent Plate Reader
Immunostaining/ Immunofluorescence
Fluorescence Microscopy/ Celloger Pro

PROTEIN EXPRESSION/ LOCALIZATION (IMMUNO-STAINING)
Fluorescence Microscopy
Celloger Pro

TEER MEASUREMENT
EVOM™ Auto

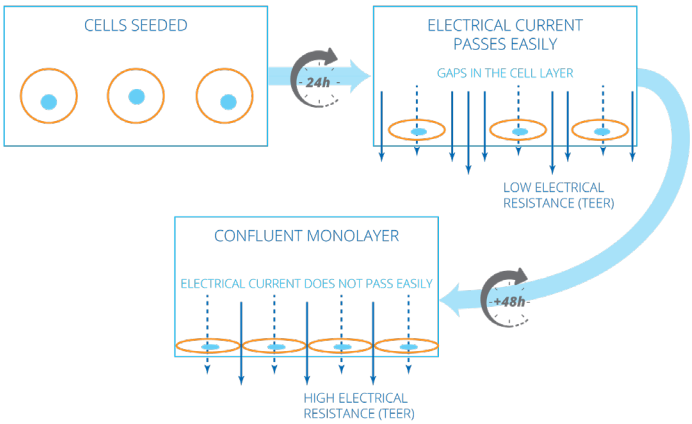
LIVE CELL IMAGING
Celloger® Pro

TEER MEASUREMENT
EVOM™ Manual

TEER MEASUREMENT
EVOM™ Warming Plate

As cells adhere to the permeable membranes and start spreading and multiplying, the gaps in the cellular layers tend to close. With the increase in cell numbers, the cellular layer approaches confluency. As the cells forms tight junctions, the passage of ions become more and more restricted. When the confluency of the cellular layer increases, permeability decreases, electrical conductivity decreases, and the electrical resistance increases. Transepithelial/transendothelial electrical resistance (TEER) consists of transcellular resistance (caused by individual cells) and paracellular resistance (from the formation of tight junctions between cells). As cells grow and proliferate and a fully confluent monolayer is formed, the TEER value reaches a plateau. TEER value can serve as a functional marker of barrier integrity of epithelial or endothelial cellular layers.

WPI offers manual and automated EVOM™ TEER measurement solutions. WPI recently added an EVOM™ Warming plate so you can measure a sample plate at the physiological temperature of 37° C. WPI offers advanced and versatile options for live and fixed cell imaging with Celloger Pro, Celloger Mini Plus, Celloger Stack, and Celloger Nano to monitor cell growth and cellular function. WPI provides efficient cellular analysis tools for fast, reliable, and meaningful data you can use with confidence.



WHY RESEARCHERS TRUST WPI'S EVOM™ TECHNOLOGY

- Since 1980, WPI's EVOM™has been the gold standard for TEER measurement.
- Over 10,000 citations on EVOM™ products, with more added daily.
- Dedicated team of scientist and engineers based in the USA continue to innovate.
- Experts in TEER are available for technical support, if you ever need to talk with a real person.

For a comprehensive list of references, please visit the PUBLICATIONS section of our website.

WPI OFFERS SOLUTIONS FOR ALL YOUR CELL GROWTH & ANALYSIS NEEDS

EVOM™ Auto Automated TEER System

The EVOM™ Auto automates measurements of TEER in epithelial or endothelial monolayers cultured on high throughput screening (HTS) 24 and 96-well and plates utilizing our innovative EVOM™ technology.

- Automated TEER Measurement in 24 and 96-well plates
- Unparalleled measurement accuracy with continuous data recording capability
- GxP options available
- Measure cellular activity label-free and real-time

EVA-MT-02-01

EVOM™ Manual TEER Measurement System

The compact and portable EVOM™ Manual provides you the manual mode of vital EVOM™ technology based TEER data recording option. Its large touch screen offers informational views for trend analysis, with an intuitive, easy-to-use menu for configuration.

EVM-MT-03-02

- Manual TEER Measurement in 6, 12, and 24-transwell plates
- Low noise design offers greater resolution and accuracy in your TEER measurement protocol
- Automatic 20× sample averaging improves accuracy and stability
- Now with secured data transfer

EVOM™ Warming Plate

Instead of just monitoring temperature, you can take measurements with confidence and keep your samples at a constant 37ºC when you work with plates outside the incubator.

EVM-AC-03-03

- Maintain sample temperature outside the incubator
- Fast temperature equilibration/stabilization for TEER measurement
- Eliminate the effects of temperature fluctuations on TEER readings
- Heat a sample well plate from room temperature to 37°C in less than 12 minutes

Celloger® Pro

Celloger® Pro is an innovative live cell imaging system with exceptional image quality and unmatched convenience. By enabling real-time cell monitoring inside the incubator, it allows for seamless observation and tracking of cellular dynamics without disrupting the natural growth environment. The system's dual fluorescence and brightfield microscopy enable simultaneous visualization of multiple markers, while the multi-point time-lapse imaging captures dynamic cellular events across different locations.

- Cell Inspection
- Absorbance/Fluorescent Plate Reader
- Immunostaining
- Immunofluorescence
- Fluorescence Microscopy

EVI-LCI-01-08

Celloger® Mini Plus

Celloger® Mini Plus is an automated live cell imaging system that is equipped with an advanced fluorescence and brightfield microscopy, auto-focusing and real-time, multi-position imaging technology for a well plate, dish, or T-flask. The streamlined process provides an easy workflow solution giving you the full set of tools you need to acquire the best quality images and accurate research results.

- Advanced Fluorescence & Brightfield Microscopy

EVI-LCI-01-17 BF, 2×
EVI-LCI-01-18 BF, 4×
EVI-LCI-01-19 BF, 10×
EVI-LCI-01-20 BF, 4×, GF
EVI-LCI-01-21 BF, 10×, GF
EVI-LCI-01-22 BF, 4×, RF
EVI-LCI-01-23 BF, 10×, RF

Celloger® Stack

Celloger® Stack is an automated multi-layer vessel monitoring system that enables real-time imaging of live cell samples while they are cultured in an incubator. The system is capable of detecting cells growing in a multi-layer chamber and identifying the optimal time for cell harvest.

EVI-LCI-01-09

Celloger® Nano

Celloger® Nano is a benchtop digital microscope equipped with a wireless connection, enabling you to check the state of your cells in real-time from any location within your laboratory for live cell imaging.

EVI-LCI-01-10 BF, 2×
EVI-LCI-01-11 BF, 4×
EVI-LCI-01-12 BF, 10×
EVI-LCI-01-13 BF, 4×, GF
EVI-LCI-01-14 BF, 10×, GF
EVI-LCI-01-15 BF, 4×, RF
EVI-LCI-01-16 BF, 10×, RF

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