



EVOMTM MANUAL

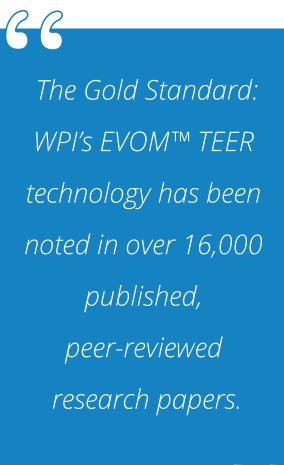
Leading the Market with our EVOM Technology



TEER Measurement with Auto Data Logging

Introducing the EVOM™ Manual

WPI's EVOM™ Manual is the gold standard for delivering stable and repeatable Trans Epithelial Electrical Resistance (TEER) measurements. The EVOM™ Manual qualitatively measures cell monolayer health and quantitatively measures cell confluence by determining an increase or a plateau in tissue resistance detected using our innovative EVOM™ technology. The EVOM™ Manual produces a low AC current that avoids electrode metal deposits and is specially designed for the non-destructive testing of epithelial monolayer confluence in cell cultures. Additionally, resistance readings are unaffected by membrane capacitance or membrane voltage. WPI's state of the art EVOM™ technology provides you with real time valuable feedback during experiment measurements.



APPLICATIONS



Confluence of Monolayer



Drug Discovery



Blood Brain Barrier (BBB)



Epithelial or Endothelial Barrier



Intestinal Drug Absorption: Caco-2 3-D Tissue Function



Permeability or Transport of Ions or Drugs

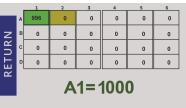


Lung In Vitro Models for COVID Study





The main EVOM™ Manual screen displays information and lets you make measurements.



The preview screens, like this 24-well preview, gives a quick visual of the plate you are measuring.



The EVOM™ Manual with the new STX4 electrode simplifies TEER measurement.

SPECIFICATIONS

Tissue Sampling Frequency	12.5 Hz	Resistance Resolution	0.1 Ω (under 200 Ω); 1 Ω (over 200 Ω)
Sample Averaging	20 samples per second	Resistance Accuracy	 0.1 Ω (under 200 Ω), 1 Ω (over 200 Ω) 0.1% 100,000 Ω ± 2 μA (to 105 ΚΩ)
Resistance Ranges	 0 to 10,000 Ω 0 to 50,000 Ω 0 to 100,000 Ω +5% 	Accuracy Resistance	0.1 Ω (200 Ω); 1 Ω (above 200 Ω)
Auto Mode	1 to 100,000 Ω auto current 2μA, 4 μA, 10 μA	Data Logging	Continuous via USB (PC, Mac, Linux)



REDUCES EXPERIMENTAL

PROCESSING TIME

AUTO DATA LOGGING ELIMINATES THE NEED TO TRACK DATA BY HAND



THE SMALL FOOTPRINT ALLOWS MORE BENCH SPACE



EASY CALIBRATION AND VERIFICATION



FOOTSWITCH FOR HANDS-FREE RECORDING



PREVENT DATA LOSS
WITH AUTO SAVE AND
DATA RECOVERY WHEN
BATTERY IS LOW



LOW NOISE DESIGN OFFERS GREATER RESOLUTION AND ACCURACY



TEER MEASUREMENT ELECTRODE

The STX4 electrode was designed for easy insertion into many 24-well plates. It is location re-placeable in the insert for repeatable and consistent measurements.

- Designed for 12 and 24-well plates
- · Hands-free stable measurements
- · Mitigates electrical and cell phone interference
- Consistent results and no need for multiple readings
- · Easy to maintain



ELECTRODE OPTIONS



EVM-EL-03-03-01

STX4

- Greater measurement precision than STX2/STX3
- Hands-free operation
- · Cable blocks RF interference
- · Low media volume
- Longer life with replaceable blades
- No chloriding necessary (coated tips)



EVM-EL-03-02-xx

STX HTS

- Smaller tip size than the STX2 electrode
- Constructed for durability
- Fits neatly into the keyhole-shaped filter well
- Electrode design reduces chance of contamination



EVM-EL-03-01-xx

ENDOHM

- Stability and reproducibility superior to the STX2 electrodes to 1% tolerance
- Can be used with 6, 12 or 24-well plates with removable inserts
- Symmetrical electrode pattern disperses test current uniformly

Contact our distributor



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