



WORLD
PRECISION
INSTRUMENTS

Accelerate Your Drug Development with Our New EVOM™ Auto High-Throughput Screening System

The Gold Standard for Automated TEER Measurement of Both 24 and 96 HTS Multiwell Plates



EVA-MT-03-XX

EVOM™ Auto with both 24 and 96 HTS multiwell plate capability is a high throughput screening (HTS) platform offering fast, non-invasive sample scanning by comparing electrical resistance measurements (transepithelial/transendothelial electrical resistance: TEER). TEER measurement experiments are simple to set up and less time consuming than more complex molecular studies. TEER measurement can be used as the primary scanning method to identify any physiological changes that can then be further evaluated by other methods. EVOM™ Auto can capture TEER measurements in 24 and 96 HTS multiwell plates from Corning, Millipore, or MatTek. The sample preparation time in these HTS plates is efficient, allowing for fast, multi-channel pipetting options.

Additionally, the EVOM™ Auto electrode disinfection capability during measurement minimizes sample cross-contamination. Its wireless device control offers the convenience of operating the instrument from a distance, and the small footprint of EVOM™ Auto enables you to use it inside a sterile cell culture hood or an incubator. The EVOM™ Auto provides a fast and efficient platform for early drug discovery, by narrowing down drug targets and drug concentrations through automated, non-invasive sample scanning.

APPLICATIONS



Epithelial & Endothelial Barrier Studies



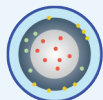
Confluence



Lung Viral Infection



Toxicity



Antibody-Antigen Binding



Blood Brain Barrier (BBB)



Cancer Tissue Studies



Intestine, Kidney and Liver Tissues

EVOM™ Auto Expedites Drug Development by Accelerating:

- Hit Discovery Process
- Hit To Lead
- Target Screening, Identification and Validation
- Formulation Optimization & Improving Bioavailability
- Assay Development
- Safety Assessment: Toxicity
- Quality Control of 2-D and 3-D *In Vitro* Tissue Models in Drug Discovery
- *In Vitro* Tissue Models in Drug Discovery

Automated High Throughput TEER Measurement System

System Includes

EVOM™ Auto TEER Measurement System (EVA-MT-03-xx) includes the autosampler, an electrode array with accessories (for 96 or 24 HTS multiwell plates), an interface unit and its cable, an iPad control tablet with software, and a power cord.

Features	Advantages	Benefits
Electrodes available for 24 & 96 Multiwell HTS plates	Measures wells one column at a time	Efficiency gains with automation
Easily switch between 24 and 96 plate types	Plug-n-play enables fast, easy switching between HTS plate types & heads	Multi-plate compatibility utilizing only one instrument means cost and space savings
Automate your measurements	Streamline your workflow	Minimize human errors
Three rinse locations	Rinse electrodes multiple times during measuring sequences	Take control of your protocol and define custom sequences
Crash protection	Auto alignment detection pauses measurements, preventing equipment damage	Minimize electrode damage, avoiding costly repairs and downtime
Auto-detection of electrode head	Auto electrode detection configures its position and software options for your plate	Simple hardware setup without configuration
Intuitive touchscreen user interface	User-friendly programming sequences with basic selection options	Easy-to-navigate system saves time when configuring sequences
Create custom plate profile	Adjust the programmed coordinates	Fine tune the programming as desired
Save up to three plate profiles per plate type	Multiple users can operate instrument with individually saved settings	Ensures custom settings are saved, preserving data integrity
Store all your data or export to Microsoft® Excel	Analyze your data in a manner suitable to your workflow	Flexibility to manage your data

Specifications

Autosampler Dimensions (W×D×H)	16×10×8.4"
Autosampler Weight	15.5 lbs.
CE Certified	Yes
Compatibility	96 and 24 Well HTS Plates
Resistance Range	10KΩ, 50KΩ, 100KΩ
Number of Rinse Stations	3
Electrode Array for 96 HTS Plate	Array of 8 pair of (1.2mm Φ) electrodes
Electrode Array for 24 HTS Plate	Array of 4 pair of (1.2mm Φ) electrodes
Minimum Sample Reading Time	1 Second
Control Device for Running Software	Tablet, Laptop, Desktop with Wi-Fi adapter
Output Data	CSV/Microsoft® Excel

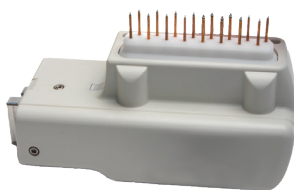
Part Number

Description

EVA-MT-03-01	EVOM™ Auto for TEER Measurement in 96 HTS Plate
EVA-MT-03-02	EVOM™ Auto for TEER Measurement in 24C HTS Plate
EVA-MT-03-03	EVOM™ Auto for TEER Measurement in 24M HTS Plate
EVA-EL-03-01	EVOM™ Auto 96 HTS Electrode Array for TEER
EVA-EL-03-02	EVOM™ Auto 24C HTS Electrode Array for TEER
EVA-EL-03-03	EVOM™ Auto 24M HTS Electrode Array for TEER

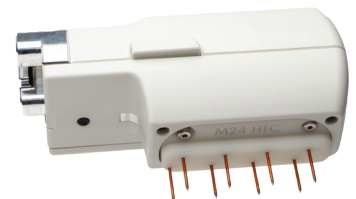
96 Electrode Array

EVA-EL-03-01



24 Electrode Array

EVA-EL-03-03



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