



Plates &
Electrode
**IN STOCK
NOW**

High Throughput Screening Electrode & Insert Plates

96-Well PermaCell Insert Plates & Custom Designed Electrodes are **IN STOCK NOW** for use with your EVOM™ Meter



World Precision Instruments (WPI) is excited to introduce the new STX HTS EVOM Electrode and PermaCell 96-well cell culture insert plates, enabling EVOM™ meter users to increase sample throughput both accurately and efficiently. The STX HTS EVOM™ electrode is a compact electrode specifically designed for measurement of transepithelial electrical resistance (TEER) in combination with the PermaCell 96-well insert plates. The electrode can be connected directly to the EVOM™ Manual and EVOM3 meters and can also be used with the EVOM2 meter when a special adaptor is purchased. For greater peace of mind, WPI is now also offering the Cover Your Assay (CYA) Electrode Protection Plan. (Further details are on the back.)



1 STX HTS Electrode

- Cost-effective alternative to automation, allowing TEER measurement in PermaCell HTS insert plates manually
- Design of the STX HTS electrode guarantees spatial repeatability and accuracy
- Electrode is designed to self-align based on the form factor of the apical and basal access ports of the PermaCell insert plate
- For greater peace of mind, you can add the Cover Your Assay Electrode Protection Plan

2 PermaCell 96 Insert Plate

- PermaCell 96-well insert plates are advanced, sterile cell culture devices used for growth and differentiation of cells
- Plates consist of an array of 96 membrane wells connected in a single, rigid tray for easier handling and feeding and to allow for high-throughput robotic processing
- 96-well insert plate fits within a 96-well receiver plate (included) which allows for individual treatment and assaying of each well in the plate (Fig. 1)
- PermaCell insert plates can be used for cell culture and cell differentiation into 2D/3D tissues, drug transport/permeability studies, and imaging studies



Fig. 1—The PermaCell insert plates have three components: (1) Cover, (2) Insert Plate and the (3) Receiver plate.

High Throughput Screening Plates & Electrode

STX HTS EVOM™ Electrode

EVM-EL-03-02-05

| | |
|---|-----------------------------|
| Compatible with | EVOM™ Manual, EVOM3, EVOM2* |
| Minimum Volume for use with the EVOM™ Manual (Apical/Basolateral) | 150 µL/400 µL |
| Minimum Volume for use with the EVOM™ Auto (Apical/Basolateral) | 150 µL/550 µL |
| Electrode Tip Outer Diameter | ~1.8 mm |

* The Electrode Adapter Cable (WPI #: EVM-AC-02-01-01) is required for use with the EVOM2.



96-Well PermaCell Insert Plates

CCI96-PET-0.4 (pkg. of 1) or CCI96-PET-0.4-5 (pkg. of 5)

| | |
|------------------------|---|
| Dimensions | 96-Well Insert Plate |
| Receiver Plates | 127.8 × 85.5 mm |
| Well Depth | 12 mm |
| Membrane Diameter | 4.29 mm |
| Membrane Area | 0.11 cm ² |
| Membrane Pore Size | 0.4 µm |
| Solvent Compatibility | Same as polystyrene |
| Sterility | Gamma Irradiation, shipped sterile |
| Membrane Types | Polyethylene terephthalate (PET) |
| Pore Density | 1 × 10 ⁸ pores/cm ² |
| Transparent in Culture | No |

Plate Setup

It is best to perform these steps in a laminar flow hood or equivalent controlled environment. The inserts are pre-packaged in a 96-well receiver plate. Be sure to inspect the wells to ensure there are no defects before you begin.

1. Add cell culture media to the wells of the 96-well receiver plate. For MatTek 96-well insert plates, add 300 µL of medium into the wells of the receiver plate.
2. Seed cells into the wells of the insert plate and follow the standard tissue culture incubation and feeding procedures for optimal cell growth. Typical experiments seed cells on the apical membrane using up to 100 µL in the apical compartment. Experiments may also include seeding cells into the receiver plate wells and/or onto the basal side of the membrane.

NOTE: For taking TEER measurements, the STX HTS EVOM™ Electrode performs optimally with 350 µL of cell culture medium in the basolateral compartment and 150 µL of cell culture medium in the apical compartment.

Cover Your Assay Protection Plan

WPI recognizes how valuable your research is and strives to ensure that your research continues with minimal disruption when unexpected events occur. In an effort to best support researchers and minimize equipment and personnel downtime, we are pleased to introduce our **Cover Your Assay (CYA) Electrode Protection Plan**. For a limited time, purchasers of the STX HTS EVOM™ Electrode have the opportunity to be upgraded in warranty coverage when you commit to purchase as few as 50 PermaCell insert plates per year. Our CYA Electrode Protection plan extends your electrode warranty from 30 days up to two replacement electrodes per year.

For details, see: www.wpiinc.com/extended-warranty.

WPI is an authorized distributor of MatTek PermaCell insert plates.

Return Policy

- Once insert plates are opened, plates cannot be returned for a refund.
- The CYA Protection Plan guarantee is void if the minimum plate purchase has not been made.
- Warranty may be reinstated if the purchase quantity is made current.

WORLD PRECISION INSTRUMENTS

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