

## Delta T Transwell® Insert Adapter Instructions

The Delta T Transwell Insert Adapter combines the growth environment of transwell inserts with the micro-observation, micro-environmental characteristics of Delta T Culture Dish System, which enables advanced or time lapse microscopy of specimens grown on transwell membranes. The Delta T Transwell Insert Adapter is a transwell receiver sleeve with perfusion ports, which mates to an internally threaded metal mounting ring. The Delta T Transwell Insert Adapter suspends the membrane surface at the appropriate distance relative to the objective's plane of focus in a Delta T Culture Dish where the following variables and attributes are controlled: optical compatibility, fluid containment, convenience, and highly accurate temperature control.

### Instructions:

1. Place the Transwell Insert Adapter onto the Delta T Dish.
2. Place a Transwell Insert (without cells) into the Transwell Insert Adapter and adjust the depth of the membrane surface relative to the dish bottom by rotating the metal ring on the perimeter of the adapter. The membrane should be off the bottom of the dish and within the focusing range of the objective. The Adapter is now set and ready to accept transwells with cells.

If Perfusion is required, attach 1/16" tubing to the stainless steel perfusion tubes. The perfusion tubes are friction fitted and can be adjusted by gently twisting them while forcing them to the desired depth. See below for perfusion specifications.

### Sterilization:

The Transwell Insert Adapter can be cleaned with 70% alcohol or autoclaved at 120°C for 15 minutes.

### Note:

If your experiment requires special characteristics other than those provided with the Transwell Insert Adapter, please contact Bioptechs for modifications or specialty services. Bioptechs appreciates feedback from our customers so we may continue to improve our products. Please inform us as to how you are performing your experiments and how we may better serve your needs. Thank you for your interest in our products.

### Continual Transwell Insert Perfusion with the Delta T Micro-Perfusion Pump:

The Delta T Micro-Perfusion Pump is shipped with dual channel tubing. When the tubing pair is stretched around the rollers on the pump, the tube with the black band will have a slightly smaller ID yielding a slower fluid transport capability. Attach the supply line from your media to the barb on the input side of the black band pump tubing and another tube from the output side of this tube to the irrigation port of the Transwell Insert Adapter. Attach tubing from the aspiration port of the Transwell Insert Adapter to the input side of the other pump tube and a line from the output side of this pump tube to a waste container. Adjust the pump speed as needed for suitable perfusion rate.

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