

## TISSUE TRAIN® CULTURE PLATES

### Flexible bottomed culture plate used with the Flexcell Tissue Train Culture System for providing uniaxial strain to 3-D cell-seeded gel constructs.

- Create 3-D cell-seeded constructs on a Tissue Train plate using a Trough Loader as a mold (Fig. 12a).
- Create 3-D trapezoidal-shaped bioartificial tissue constructs (Fig. 12b).
- Apply a load regimen of uniaxial cyclic strain to the cellular construct using a Flexcell Tension system and Arctangle Loading Stations.
- Matrix-bonded nylon mesh anchors for improved cell attachment.
- Observe cell responses in 3-D matrix with phase contrast, fluorescence or scanning confocal microscopy.
- Covalently bonded anchors: Amino, Collagen (Type I or IV), Elastin, ProNectin (RGD), Laminin (YIGSR).

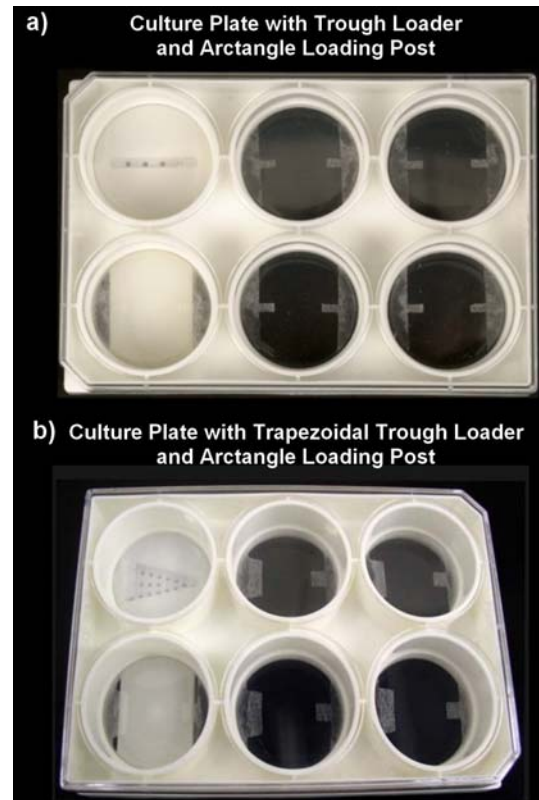


Figure 12. Tissue Train (a) and Trapezoidal TT (b) culture plates from 3D culture of cell-matrix constructs. The top left well has (a) a Trough Loader and (b) a Trapezoidal Trough Loader beneath the flexible membrane. The 4 adjacent wells show the anchors for attachment of cells and gel from a uniaxial construct. The bottom left well shows an Arctangle™ loading post to deliver uniaxial load.

<b>Ordering Information</b>	
<b>For use with standard (linear) Trough Loaders</b>	
<i>Catalog Number</i>	<i>Product/Item</i>
TT-4001U	Tissue Train® Culture Plate – Untreated
TT-4001A	Tissue Train® Culture Plate – Amino
TT-4001C	Tissue Train® Culture Plate – Collagen Type I
TT-4001C/IV	Tissue Train® Culture Plate – Collagen Type IV
TT-4001E	Tissue Train® Culture Plate – Elastin
TT-4001P	Tissue Train® Culture Plate – ProNectin
TT-4001L	Tissue Train® Culture Plate – Laminin
<b>For use with Trapezoidal Trough Loaders</b>	
TRTT-4001U	Trapezoidal TT Culture Plate – Untreated
TRTT-4001A	Trapezoidal TT Culture Plate – Amino
TRTT-4001C	Trapezoidal TT Culture Plate – Collagen Type I
TRTT-4001C/IV	Trapezoidal TT Culture Plate – Collagen Type IV
TRTT-4001E	Trapezoidal TT Culture Plate – Elastin
TRTT-4001P	Trapezoidal TT Culture Plate – ProNectin
TRTT-4001L	Trapezoidal TT Culture Plate – Laminin