

6-well Tissue Train® Culture Plates

Flexible bottomed culture plate used with Arctangle® Loading Stations™ and Trough Loaders™ to apply uniaxial strain to 3D cell-seeded gel constructs.

- Create 3D cell-seeded constructs on a Tissue Train® plate using a Trough Loader™ (Fig. 32) or a Trapezoidal Trough Loader™ as a mold (Trough Loaders™ not included with the plates).
- Tissue Train® Plates available with either CEREX® (a non-woven nylon mesh) or foam (open-cell porous) anchor stems. Anchor material has not been found to affect the compaction kinetics of the collagen gel. However, the foam anchor stems allow for increased construct survival time as measured by time to construct failure/detachment from the anchors.
- Apply a load regimen of uniaxial cyclic strain to the cellular construct using a Flexcell Tension system and Arctangle® Loading Stations™.
- Observe cell responses in 3D matrix with phase contrast, fluorescence or scanning confocal microscopy.
- Covalently bonded anchors: Amino, Collagen (Type I or IV), Elastin, ProNectin (RGD), Laminin (YIGSR).
- Available in cases of 10 and 40 plates.



Figure 29. Tissue Train® and Trapezoidal Tissue Train® culture plates with the foam anchor stems



Figure 30. Representative image of 3D cell-seeded gel construct created in a Tissue Train® culture plate (left picture) and in a Trapezoidal TT® culture plate using a Trapezoidal Trough Loader™

For use with (linear) Trough Loaders™		
Cat. No.	Cat. No.	Description
CEREX®	Foam	
TT-4001U	TT-5001U	Tissue Train® Culture Plate – Untreated
TT-4001A	TT-5001A	Tissue Train® Culture Plate – Amino
TT-4001C	TT-5001C	Tissue Train® Culture Plate – Collagen Type I
TT-4001C/IV	TT-5001C/IV	Tissue Train® Culture Plate – Collagen Type IV
TT-4001E	TT-5001E	Tissue Train® Culture Plate – Elastin
TT-4001P	TT-5001P	Tissue Train® Culture Plate – ProNectin
TT-4001L	TT-5001L	Tissue Train® Culture Plate – Laminin

For use with Trapezoidal Trough Loaders™		
Cat. No.	Cat. No.	Description
CEREX®	Foam	
TTTP-4001U	TTTP-5001U	Trapezoidal TT® Culture Plate – Untreated
TTTP-4001A	TTTP-5001A	Trapezoidal TT® Culture Plate – Amino
TTTP-4001C	TTTP-5001C	Trapezoidal TT® Culture Plate – Collagen Type I
TTTP-4001C/IV	TTTP-5001C/IV	Trapezoidal TT® Culture Plate – Collagen Type IV
TTTP-4001E	TTTP-5001E	Trapezoidal TT® Culture Plate – Elastin
TTTP-4001P	TTTP-5001P	Trapezoidal TT® Culture Plate – ProNectin
TTTP-4001L	TTTP-5001L	Trapezoidal TT® Culture Plate – Laminin