



FLEXCELL® TISSUE TRAIN® CULTURE SYSTEM

(cat. no. FX-5000TT)

3-D cell culture in a gel matrix with or without cyclic uniaxial tension

- Create tethered, linear, 3-D cell-seeded collagen gels using a novel Trough Loader mold device and a Tissue Train culture plate (Fig. 5-6)
- Apply a load regimen of uniaxial cyclic strain using a Flexcell Tension system and Arctangle Loading Stations (Fig. 5).
- Build user-defined strain regimens to simulate heart rate, walking, running and other dynamic exercise patterns.
- Create bioartificial tissue strips up to 35 mm in length.
- Observe cell responses in a 3-D matrix with phase contrast, fluorescent, or scanning confocal microscopes.
- Matrix coated nylon mesh anchors for improved cell attachment.



Figure 5. Tissue Train culture plate with nylon mesh anchors, Trough Loader, and Arctangle Loading post.

FX-5000TT includes:

- Host computer with 17" flat panel monitor
- FlexSoft FX-5000 software
- FX5K™ Tension FlexLink
- TissueTrain accessory package:
 - TissueTrain Baseplate and four gaskets
 - TissueTrain Trough Loaders
 - Arctangle Loading Posts
 - Four Tissue Train Culture Plates
 - Acrylic Baseplate cover, vacuum tubing, quick disconnects, and grease/lubricant

TissueTrain® 3-D Bioartificial Tissue

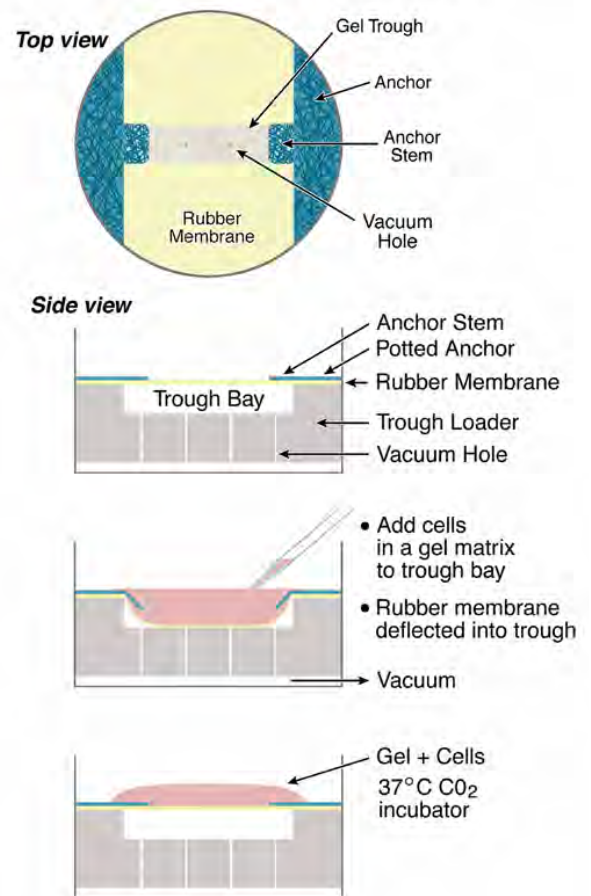


Figure 6. Schematic of protocol for making cell-seeded gel constructs with the Tissue Train Culture system.

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