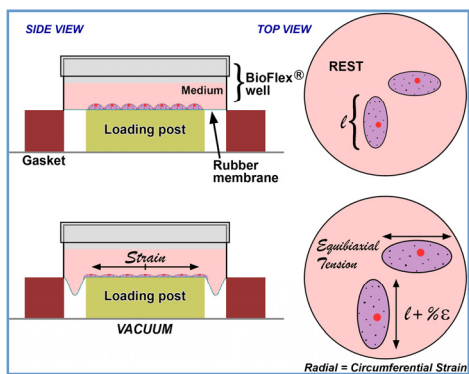


Flexcell® FX-6000™ Tension System

The FX-6000™ Tension System is a patented, computerized instrument that applies a defined controlled, static or variable duration cyclic tension, to cells growing *in vitro*. This system uses regulated vacuum pressure **and** positive air pressure to deform flexible-bottomed culture plates.

Various combinations of Flexcell culture plates and loading stations can be interchanged to allow for application of either equibiaxial, uniaxial, or gradient tension to cells in monolayer or 3D cell culture, allowing studies to better mimic the *in vivo* environment.



Schematic of equibiaxial strain application to cells cultured in a BioFlex® well and placed atop a cylindrical loading post.

- FX-6000™ Tension System includes:**
- Laptop computer
 - FlexSoft FX-6000™ software
 - Tension FlexLink®
 - Tension accessory package:
 - ◊ BioFlex® baseplate and four gaskets
 - ◊ BioFlex® Loading Stations™ with 25 mm diameter Loading Posts
 - ◊ Four BioFlex® Cell Seeders
 - ◊ Four BioFlex® culture plates
 - ◊ Drying filter, water trap, vacuum tubing, and grease/lubricant

Highlights

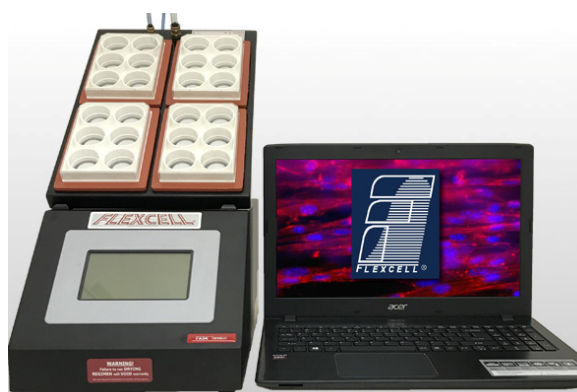
Apply equibiaxial or uniaxial tension to cells in 2D and 3D culture.

Simulate *in vivo* tissue strains and frequencies in an *in vitro* setting.

Contains state-of-the-art digital valve to automatically regulate and maintain pressure for a specified strain regimen.

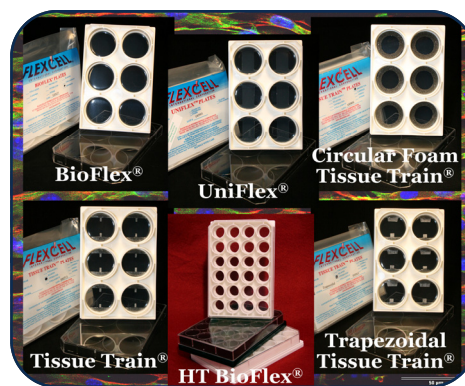
Multiple frequency, amplitude, and waveform changes can be programmed in one regimen.

Drives up to four independent FlexLink® remote compression and/or tension controllers.



Flexcell® FX-6000™ Tension System

Culture Plate + Loading Station (LS)	Max Strain
BioFlex® + Cylindrical LS	21.8% Equibiaxial
Tissue Train® + Arctangle® LS	20.8% Uniaxial
UniFlex®+ Arctangle® LS	12.2% Uniaxial
HT BioFlex®+ Cylindrical LS	8.0% Equibiaxial
BioFlex® + No LS	30% Gradient



Culture plates compatible with the FX-6000™ Tension System

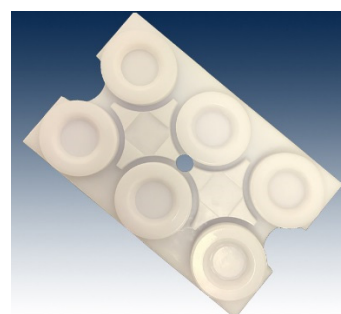
Introducing the FX-6000™ Dynamic Culture System

Apply cyclic or dynamic strain to your cells or tissue constructs

Features	FX-6000™	FX-5000™
<i>Tension application</i>	Single digital valve regulates both vacuum and compressed air to deform membrane	Two digital valves regulate vacuum pressure only to deform membrane
<i>Static and dynamic data capture</i>	Controlled pressure change with no overshoot or oscillation in waveform	Small oscillations in waveform at static step changes
<i>Baseline return</i>	Membrane return to equilibrium enhanced with applied positive pressure	Membrane return to equilibrium by atmospheric pressure only
<i>Waveform shapes</i>	Smoother waveforms	Vacuum fluctuations cause some waveform distortion
<i>Software Compatibility</i>	Yes with FX-5000	Yes with FX-6k
<i>Maintenance</i>	Dry compressed air improves moisture control	Moisture control limited to drying regimen runs
<i>FlexLink® Footprint</i>	9.5" x 7.5" x 15.75" (W x H x D)	10.5" x 7.5" x 18.5" (W x H x D)
<i>Controller Computer</i>	Acer Laptop	Dell Desktop Computer
<i>Data analysis</i>	Saves both kPa and % elongation values for analysis	Saves kPa values for analysis
<i>Accessories</i>	Cell seeder for 6-well BioFlex® plates available as part of standard baseplate kit	Available for purchase separately



FX-6000™ Tension System



BioFlex® Cell Seeder

For more information and for ordering and pricing information on the FX-6000™ Tension System please contact: