EQUIPMENT

FLEXCELL® FX-5000™
Tension System

CALL YOUR DISTRIBUTOR FOR PRICING

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

- Computer-regulated bioreactor that applies cyclic or static tensile strains to cells cultured *in vitro*.
- Uses regulated vacuum pressure to deform flexible-bottomed culture plates producing up to 25% substrate elongation.
- Simulate *in vivo* tissue strains and frequencies in cells from muscle, lung, heart, blood vessels, skin, tendon, ligament, cartilage and bone.
- Contains state-of-the-art digital valve to automatically regulate and maintain pressure for a specified strain regimen.
- Works with BioFlex, Tissue Train, and UniFlex series culture plates.
- Multiple frequency, amplitude and waveform changes can be programmed in one regimen (Fig. 3).
- Uses cylindrical or Arctangle Loading Posts to provide equibiaxial or uniaxial strain, respectively.
- Apply gradient biaxial strain (unconstrained distention) by removing Loading Stations.
- Drives up to four independent FlexLink remote compression and/or tension controllers.
- Better control of waveforms at low and high amplitudes.

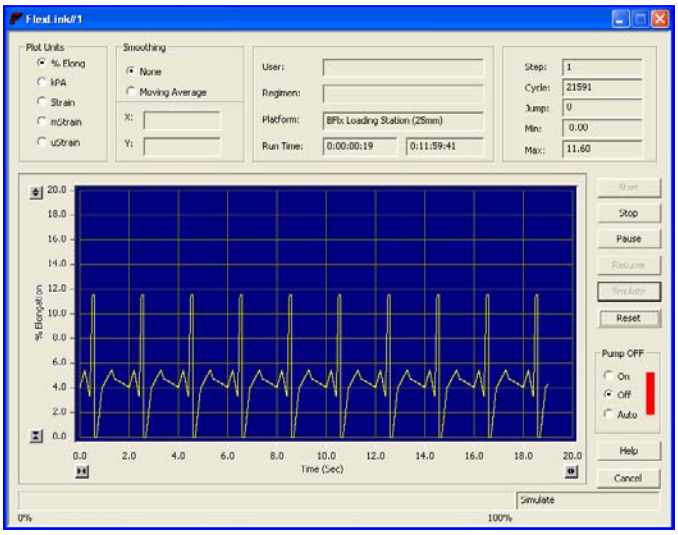

Figure 3. Waveform plot showing typical heart waveform.

Waveforms available:

- *Static*
- *Sinusoidal*
- *Heart Stimulation*
- *Triangular*
- *Square*
- *Custom*

FX-5000 Tension System includes:

- Host computer with 17" flat panel monitor
- FlexSoft FX-5000 software
- FX5K™ Tension FlexLink
- Tension accessory package:
  - BioFlex baseplate and four gaskets
  - BioFlex Loading Stations with 25 mm diameter Loading Posts
  - Four BioFlex culture plates
  - Drying filter, water trap, vacuum tubing, and grease/lubricant

800-728-3714
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