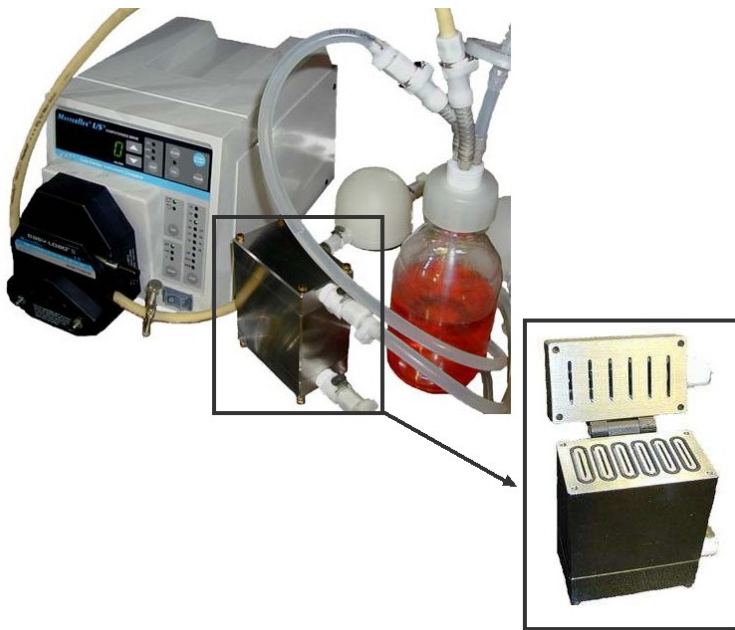


FLEXCELL® STREAMER®

Fluid Shear Stress Device

(cat. no. Str-4000)

Apply fluid shear stress to cells with laminar, pulsatile, or oscillating flow



- Culture cells on special matrix coated PTFE rimmed 25 mm × 75 mm × 1,0 mm Culture Slips.
- Uses a computer-controlled peristaltic pump to regulate shear stress from 0 to 35 dynes/cm²
- Works with Osci-Flow flow controller to regulate oscillating and pulsatile flow.
- Analyze effects of fluid flow on cell alignment, mRNA and protein expression, and signaling pathways.
- Remove quick disconnect fittings for easy cleaning after use.
- Streamer device is autoclavable.
- Run up to six slides at one time.
- Comes with two pulse dampeners.

Figure 7. Image of Streamer system setup.

Applied Flowrate vs. Shear Stress

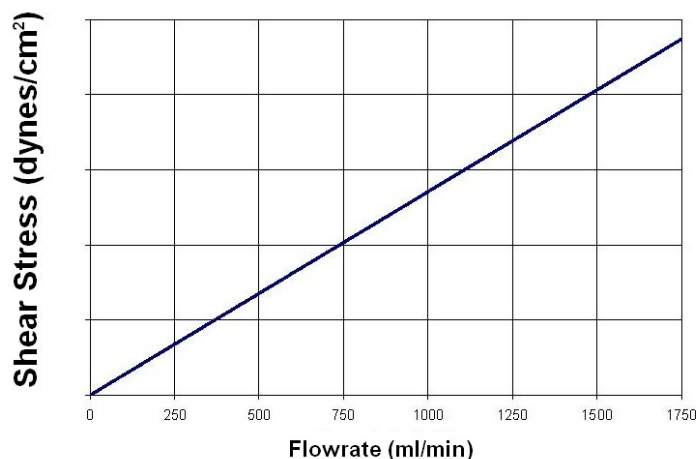


Figure 8. Representative graph of applied fluid shear stresses for a given pump flow rate for cells cultured on Culture Slips and placed within the Streamer device.

Streamer System includes:

- Streamer device
- Dell notebook computer
- Tubing and quick disconnects
- Peristaltic pump
- StreamSoft software
- Two pulse dampeners
- 12 Culture Slips