



BioFlux 200

Automated live cell assays under shear flow



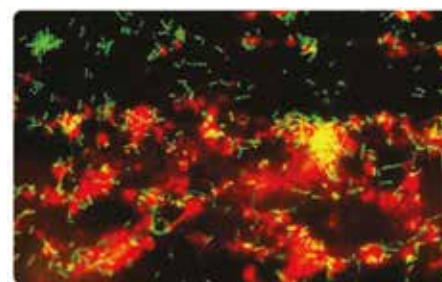
The **BioFlux System** is a benchtop instrument which enables up to 24 temperature-controlled flow cell assays in parallel. The pressure Interface connects a highly precise and accurate electro-pneumatic pump to the well plates to initiate controlled shear flow. The System works with your existing inverted microscope and is compatible with fluorescence, brightfield, phase, and confocal imaging. User-friendly software automates experimental controls and provides a powerful analysis package.



Accelerate your biomedical research

One system, many capabilities

- Higher biological relevance:** Controlled shear flow for simulating physiological and environmental conditions. Fully programmable changes to shear flow in real time offer the widest range of assay possibilities.
- Controlled shear flow:** Pneumatically-controlled flow source generates reproducibility from assay to assay, day to day, and week to week.
- Higher throughput and data reliability:** BioFlux runs up to 24 simultaneous flow experiments on a single plate, enabling hundreds of assays per day.
- Ease of use:** Intuitive software provides a simple way to control many experiments at once. Each system is fully integrated to work with your existing lab setup.
- One system, many uses:** Wide range of live cell applications, including biofilms monitoring, wound-healing, immunology, stem cells, and more.



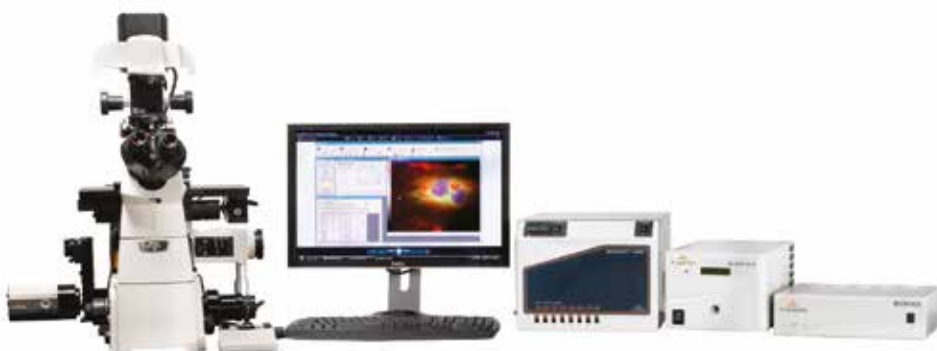
Pseudomonas fluorescens biofilm grown at 2 dyne/cm² for 24 hours. Stained with a BacLite kit and imaged with a 20X objective.



The BioFlux 1000z provides a high content screening platform for running physiologically-relevant shear flow assays and delivers high resolution microscopy data with the ultimate in throughput, convenience and flexibility.

BioFlux 200 product specifications

BioFlux 200 controller	BioFlux plate	BioFlux software
Shear flow range: 0.5 - 20 dyne / cm ²	Plate formats: SBS-standard well plates, pre-sterile	Operating modules: Manual, AutoRun Editor, AutoRun, Image Acquisition, Image Analysis
Temperature control: ambient to 50 °C	24-well BioFlux plate: 8 experimental channels, two inputs per channel (for compound additions)	Operating system: Windows 2000 or XP
Dimensions: 12" (W) x 13" (L) x 9" (H) 30 cm (W) x 33 cm" (L) x 22 cm (H)	48-well BioFlux plate: 24 experimental channels, one input per channel	Memory: 1GB RAM
Throughput: up to 24 simultaneous experiments per 48-well BioFlux plate		Available hard drive space: 2GB USB 2.0 Connection
Imaging surface: 180 µm cover slip glass		
Microfluidic channel dimensions: 350 µm wide x 70 µm tall		



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