



Mirus™ 1.0 Nanopump: Low volume pumping system for cell based assays mimicking physiological flow



▪ Mirus™ 1.0 Nanopump Performance Specifications:

Shear Stress Range*:	0.05 - 20 dyne/cm ²
Volumetric Flow Rates:	100nL/minute - 20 µL/minute (100 µL syringe)
Sample Volume Increments:	Freely adjustable
Linear Velocity Range**:	10 µm/s to 10cm/s
Flow Direction:	Reversible
Sample Volume Aspiration Accuracy:	±1%
Shear Stress Accuracy:	±0.5%
Sample Volume Aspiration Precision:	<1% CV
Shear Stress Precision:	<0.5% CV

*1mL syringe for high shear stress > 10 dyne/cm².

**Given for the flow of distilled water in a Vena8™ biochip microcapillary with dimensions: 400 µm (W) x 100 µm (D) x 20mm (L).

▪ Mirus™ 1.0 Nanopump Technical Specifications:

Software control:	Integrated <i>FlowAssay</i> software facilitates pumping of cell suspensions through biochips.
Hardware control: PC requirements:	Pentium II microprocessor or higher, 128MB of RAM, 400MB Hard disk, RS232 port (COM port), USB port, CD-ROM drive for <i>FlowAssay</i> software installation, Windows 2000 ME, XP Operating systems.
Dimensions:	220mm (W) x 175mm (D) x 220mm (H)
Weight:	Approx. 5kg
Power Requirements:	110/220V 50/60Hz