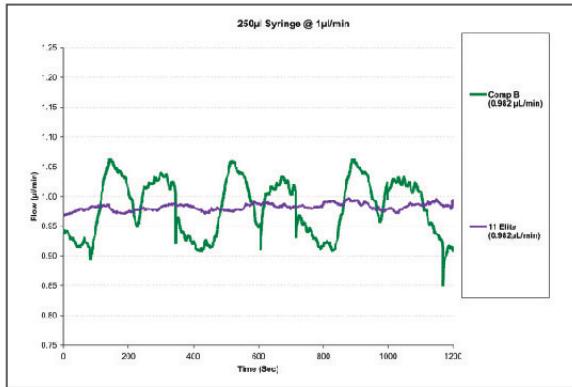




## 细胞生物学 Cell Biology

细胞学研究一般需要在特定的条件下进行微小剂量的液体注射。

- 质体、病毒或其它相似的物质的细胞微注射：见PUMP 11 PICO Plus Elite, PHD ULTRA™ Nanomite, PUMP 11 Elite Nanomite



### Cell Biology References

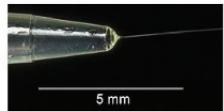
*Microfluidic electroporation for selective release of intracellular molecules at the single-cell level*, ELECTROPHORESIS, Volume 29, Issue 14, pages 2939–2944, No. 14 July 2008

*L-selectin-mediated lymphocyte-cancer cell interactions under low fluid shear conditions*, THE JOURNAL OF BIOLOGICAL CHEMISTRY, 283, 15816-15824

*Shear assay measurements of cell adhesion on biomaterials surfaces*, MATERIALS SCIENCE AND ENGINEERING: C, Volume 29, Issue 4, 5 May 2009, Pages 1293-1301

## 化学和工业/静电纺丝 Electrospinning

化学合成，耐压系统或其它高性能要求的应用，HARVARD 能够为您提供最好的解决方案。

- 高压用途：见PHD ULTRA™ HPSI和XF(使用不锈钢注射器)或PHD ULTRA™ 4400。
- HARVARD 注射泵可用于在高电压下产生纳米及微米级的聚合物纤维，PHD ULTRA™系列注射泵稳定的流速和灵活的应用使可变物转换为静电纺丝非常容易。

### Chemical and Industrial/Electrospinning References

*Microfluidic electroporation for selective release of intracellular molecules at the single-cell level*, ANAL. CHEM., 2008, 80 (9), pp 3112-3122

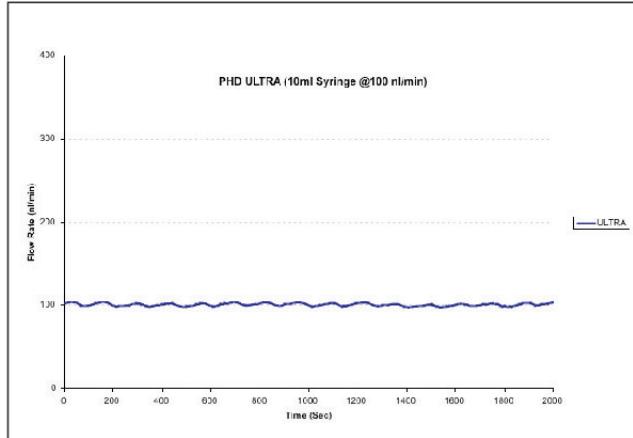
*Optical and electrical properties of indium tin oxide nanofibers prepared by electrospinning*, NANOTECHNOLOGY, 2008 19 145603

*Manufacture of small calibre quadruple lamina vascular bypass grafts using a novel automated extrusion-phase-inversion method and nanocomposite polymer*, JOURNAL OF BIOMECHANICS, Vol. 42, issue 6, Pages 722-730 (16 April 2009)

## 质谱分析定标和电喷射离子化

### Mass Spectrometry Calibration

对于需要精确剂量输出和无脉冲流的最佳仪器校准或溶剂峰消除，PUMP 11 Elite系列注射泵是OEM制造者和最终用户的工业标准。详细信息见PUMP 11 Elite和PUMP 11 PICO Plus Elite。



### Mass Spectrometry Calibration References

*Which Electrospray-Based Ionization Method Best Reflects Protein-Ligand Interactions Found in Solution? A Comparison of ESI, nanoESI, and ESSI for the Determination of Dissociation Constants with Mass Spectrometry*, JOURNAL OF THE AMERICAN SOCIETY FOR MASS SPECTROMETRY, Volume 19, Issue 3, March 2008, Pages 332-343

*Gas-phase IR spectra of intact  $\alpha$ -helical coiled coil protein complexes*, International Journal of Mass Spectrometry, INTERNATIONAL JOURNAL OF MASS SPECTROMETRY, Volume 283, Issues 1-3, 1 June 2009, Pages 161-168

*Fragmentation patterns of newly isolated cassane butenolide diterpenes and differentiation of stereoisomer by tandem mass spectrometry*, JOURNAL OF MASS SPECTROMETRY, Volume 43, Issue 10, pages 1413–1420, October 2008



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