

## Mass spectrometry



### Bench-top spectrophotometer

The Hach Odyssey DR/2500 spectrophotometer features a touch-screen display for faster, easier testing, a built-in pH meter, automatic wavelength selection, an adjustable cell holder, 130 built-in tests, and a sleek, modern design. The patented concentric polychromator optical system has nearly diffraction-limited performance and significantly reduced stray light for extended measurement range. Single or simultaneous multiple wavelengths can be selected with unprecedented accuracy and precision.

<http://www.camlab.co.uk>



sample may be pipetted directly onto the measurement surface. Using surface tension, the sample is drawn into a column between the ends of two optical fibers to create the measurement path. After the measurement is taken and the sample is wiped off, the next sample is ready to be loaded. The sample handling mechanism is integrated with a xenon flash lamp and CCD array to achieve a photometric range of 0.02–50 absorbance units from 220–750 nm.

<http://www.nanodrop.com>



Optimized for Windows XP, MassLynx 4.0 has over 1,000 refinements including a new, context-sensitive graphical user interface (GUI) and a family of application managers enabling users to choose only the relevant tools they need from the software's "core superset." MassLynx 4.0 can be configured to meet secure electronic record-keeping criteria in quantitative bioanalysis required by the US Food and Drug Administration's regulations on electronic records (21CFR11)—typically in drug development and clinical trial settings.

<http://www.micromass.co.uk>

## Gene therapy

### Transfection reagents

Qbiogene's jetPEI line of cationic polyethylenimine (PEI)-derived transfection reagents provide effective, highly reproducible gene and oligonucleotide delivery with low residual toxicity, and are an affordable and well-characterized alternative to liposome-based transfection. They also provide superior performance *in vivo* and have become the reference carriers for delivery to lung, brain, liver, and tumors. Included are reagents for targeting specific adherent and suspended cell types.

<http://www.qbiogene.com>

### Improved efficiency

GenePORTER 2 transfection reagents from Gene Therapy Systems use patent-pending direct hydrophilic conjugation (DHC) technology to achieve the highest transfection efficiencies in a variety of cell types, including traditionally hard-to-transfect lines such as HeLa, K-562, and PC12. The newly improved formulation includes optimization components and buffers, and is designed to further enhance DNA stability and reduce interference from serum components during the transfection process.

<http://www.genetherapysystems.com>



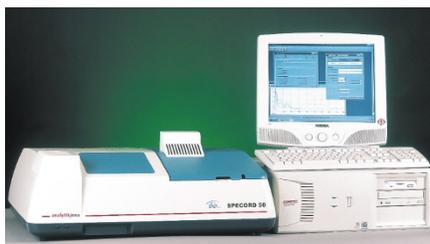
### Proteomics workstation

ProteomeX, from Thermo Finnigan, is a fully integrated, multidimensional capillary LC/MS system based on the company's highly successful LCQ Deca XP ion-trap mass spectrometer, Surveyor HPLC, and TurboSEQUENT software. It is designed and optimized for LC/MS/MS experiments required for proteomics, such as high-throughput protein identification, shotgun sequencing of complex samples, and differential protein quantitation using ICAT reagents.

<http://www.thermoфинnigan.com>

### Small volume spectrophotometer

The ND-1000 Spectrophotometer from NanoDrop Technologies simplifies UV/visible spectrophotometry for 1  $\mu$ l samples: the



### Family of spectrophotometers

The SPECORD BIO series of spectrophotometers from Analytik Jena permits the reliable analysis and quantification of biological molecules. Offering a wavelength range from 190 to 1,100 nm, scanning speeds up to 6,000 nm/min, conformity with all European and American pharmacopoeias, and accessories for exact thermostating and very small sample volumes, the instruments also feature special modules of the WinASPECT software, which support preprogrammed methods such as quantitative determinations (calibration and concentration), enzyme activity determinations, purity checks, spectrum recording, data handling, substance identification, and determination of DNA and RNA melting points.

<http://www.analytik-jena.de>

### MS software

MassLynx 4.0 is the latest version of Micromass's mass spectrometry software.