

Press Release

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LC-20A *prominence*

Universal front-end for high-end mass spectrometers

Instrument control via Internet Explorer or MS software

Shimadzu, one of the world leaders in analytical instrumentation, has introduced several possibilities for using the LC-20A *prominence* system as front-end for hyphenation with sensitive mass spectrometers. Shimadzu is presenting the LC-20A *prominence* with new specifications while defining a new HPLC philosophy accentuating simplicity and flexibility as well as state-of-the-art communication capabilities via an integrated web-server.

Micro-piston pumps and autosamplers

The LC-20A *prominence* HPLC systems constitute the ideal sample inlet for the most sensitive MS/MS and MSⁿ systems. This is based on the extraordinary characteristics of the LC-20A autosamplers and micro-piston pumps which ensure very fast injections without sample carry-over, and accurate gradient control over a wide flow rate range (from below 50 $\mu\text{L}/\text{min}$ up to several mL/min). An optional rack changer for 12 microtiter plates supplements the system for use in

high-throughput analysis such as in pharmacokinetics. Worldwide several hundred LC-MS/MS systems are equipped with Shimadzu LC-10AVP and LC-20A HPLC systems as front-end.

The integrated web-server of the LC-20A *prominence* enables control of the LC-system via Internet Explorer – without the need for additional software. In this way, hyphenation with any mass spectrometer is possible.

Integration of HPLC control within the MS software is extremely important for use in a regulated laboratory environment. In addition to system control via the Shimadzu LCMSsolution software (for example in coupling with the new LCMS-IT-TOF hybrid mass spectrometer) instrument control via other widely used MS software packages is possible. In this way, the drivers for LC-20A systems are accessible for both “Analyst” and “Xcalibur”.

Trademark:

Analyst and Xcalibur are registered trademarks of Applied Biosystems/MDS Sciex and Thermo Electron Corp.



Caption: LC-20A *prominence* HPLC system as front-end for hyphenation with high-sensitivity mass spectrometers.

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