

Press release

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Front-end systems for LC/MS Flexible combinations open up vast fields of analysis

Universal system LC-20A *prominence* / Nexera UHPLC - unsurpassed productivity and precision

Shimadzu, one of the world leaders in analytical instrumentation, offers with its HPLC and UHPLC systems a wide range of modular combinations allowing configuration of application-specific analysis systems. As front-end systems, they give access to highly specialized applications, for instance in the chemical and pharmaceutical industry as well as the environmental and food industry.

LC-20A *prominence* universal system

The LC-20A *prominence* series includes numerous system components such as pumps, injectors and detectors. They can be combined in a wide variety of different HPLC and LC/MS systems and thus result in the optimal configuration for any application desired. Smooth modification or expansion is possible covering applications from research to routine analysis. Due to its great flexibility, the LC-20A *prominence* is particularly suitable for micro and fast HPLC, and also as a front-end for highly sensitive LC/MS/MS systems. An optional rack changer for 12 microtiter plates completes the system for use in high-throughput analysis, such as in pharmacokinetics.

Nexera UHPLC – unsurpassed productivity and precision

The *Nexera* MP UPLC is perfectly suitable as a front-end system for LC/MS analyses of synthesis stages during drug development or in pharmacokinetic studies. Combined with the LCMS-8030 triple-quadrupole or the LCMS-2020 single-quadrupole mass spectrometer, a system can be configured to analyze multiple samples fast and precisely.

Fastest and most sensitive LCMS system in the world

Compared to any other single-quadrupole, the compact LCMS-2020 single-quadrupole mass spectrometer distinguishes itself by offering the world's fastest scanning speed while featuring significantly higher sensitivity. This allows even more accurate detection of trace impurities, for example in drugs or of harmful substances in the environment.

LC/MS/MS analyses with triple-quadrupole mass spectrometer

The LCMS-8030 is the fastest triple-quadrupole mass spectrometer on the market. This high-performance tool increases laboratory efficiency and supports research which is continuously faced with the challenge of detecting more target analytes with higher sensitivity in hundreds of samples per day. The LCMS-8030 delivers reliable and accurate signal detection, even at low signal width, and speeds up workflows for high-throughput analysis.

A new multiplate autosampler featuring outstanding reproducibility of injected micro-volumes supports LC/MS/MS analysis with the world's highest injection speed and extremely low carryover.



Figure 1: *Nexera MP* Ultra high-performance liquid chromatograph (left) / LCMS-8030 Ultra high-performance triple-quadrupole mass spectrometer (right)

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