

## Press Release

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analytica

### **X-ceptional insights**

***Nexera X2* UHPLC extends the range of HPLC/UHPLC applications /**

**For routine and highly regulated environments /**

**World's most sensitive photodiode array detector**

Shimadzu, one of the worldwide leading manufacturers of analytical instrumentation, provides through its *Nexera X2* UHPLC system exceptional insights into the compounds analyzed. It is perfect for routine analysis and applications in highly regulated environments demanding complex system setups. Compared to the predecessor *Nexera* system, this completely renewed *Nexera X2* offers higher core performance as well as new features improving analytical efficiency in a wider range of HPLC/UHPLC applications.

### **World's most sensitive photodiode array detector**

The SPD-M30A photodiode array detector provides superior stability and has been designed for ultra-high sensitive applications. It suits the analysis of trace impurities and hazardous substances in food or drugs perfectly due to the world's highest sensitivity and high sampling rate. The new *i*-PDeA (intelligent Peak Deconvolution Analysis) function enables peak separation of non-separated peaks by extracting the spectra from co-eluted peaks, and quantitates them by exploiting the differences in spectra between each compound.

*i*-PDeA enables users to visualize and detect a minor single impurity even when the impurity is co-eluted with an analyte.

### **Software for highly regulated environments**

The software has been intentionally adapted to meet the requirements for use in highly regulated environments. All HPLC components are fully integrated in the software. Software features controlling multiple gradients in a single system expand the system flexibility to use automated solvent blending on each pump in a binary gradient setup.

### **The *Method Scouting* system**

The *Nexera X2* is available in various configurations.

The *Method Scouting* system tests up to six columns and eight mobile phases and simplifies method development in high-performance liquid chromatography. *Method Scouting* provides important and reliable data for determining analysis conditions. The *Method Scouting Solution* software simplifies batch creation and ensures users a fast and reliable route to analysis start-up.

### **Live demo during analytica 2014**

**The *Nexera X2* UHPLC system configured for *Method Scouting* can be seen daily at the *Live Lab Food Analysis* in hall B2.**

- 1 - 3 April, at 11 am, 1 pm and 3 pm
- 4 April, at 11 am and 1 pm



**Figure 1:** Improved food and drug safety through  
*Nexera X2* with world-leading features

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