

**23. September 2008: Lausanne
Hôtel Mövenpick
Abstract Séminaire**

NQAD - Nano Quantity Analyte Detector

A new aerosol based HPLC-Detector with ultrahigh sensitivity, excellent dynamic range and good linearity

- Universal capability for compounds with or without chromophore
- Sensitive to sub nanogram levels
- Excellent linear response over a wide dynamic range
- UHPLC compatible
- Plug & play configuration

The Quant NQADTM Nano Quantity Analyte Detector is a new and completely different kind of aerosol-based detector for HPLC & UHPLC.

Based on Condensation Nucleation (CNLSD) technology, the NQADTM detector's high sensitivity helps analytical chemists accurately identify and measure extremely low concentrations of compounds in low nanogram ranges.

The NQADTM detector also offers a wide dynamic range with superior linearity when compared to other aerosol-based detectors (ELSD; Corona CAD). Universal detection of a broad range of semivolatile and nonvolatile compounds provides accurate concentration analysis of the drug components. This superior performance will aid any analysis where impurities or drug degradation can be detected with minimal sample preparation.

Dr. Jürgen Maier-Rosenkranz, Grace Davison Discovery Sciences Alltech Grom GmbH

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New techniques for accelerating throughput and efficiency in HPLC

Liquid chromatography has recently evolved in the development of short columns packed with small particles (sub-2 μ m) working at high pressures (>400 bar). Small particles, demonstrates excellent chromatographic performance and efficiency at higher flow rate. Thus, better resolution and reduced analysis time can be achieved. However they generate higher column back pressure and therefore require the use of new optimized instruments.

Per formant and flexible the new Series 275 HRes LC allows to run conventional or fast LC analyses in one reliable system. Methods can be easily transferred from conventional LC to high resolution and high speed chromatography on the same instrument.

All component of the system have been optimized for ultra fast chromatography

- Extremely low dead volume to prevent peak broadening
- Extremely low sample carry-over of the autosampler
- Very short response time constants and fast detector data collection rate

The Series 275 LC System enables today's LC laboratories to achieve higher level of performance, faster analyses and better productivity.

Luca Piatti, PerkinElmer Italy
