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PRODUCT NOTE

Series 200 Diode Array Detector

High resolution UV/Vis spectral data plus TotalChrom Control



Series 200 Diode Array Detector

Outstanding performance coupled with TotalChrom control

Getting answers – not just data – to your analytical questions is what PerkinElmer's TotalChrom LC Plus™ system is all about. The newest addition to our system, the Series 200 Diode Array Detector, provides the chromatographer with true UV/Vis detection and high resolution spectral data (Figure 1) – all under single-point control by our renowned Totalchrom™ chromatography data systems.

The Series 200 is fully network compatible providing fast and secure transmission of chromatographic and spectral data via TCP/IP.

The excellent signal-to-noise characteristics of the Series 200 Diode Array make it ideally suited for low volume or low concentration samples (Figure 2). In addition, the spectral data generated by the Series 200 is quickly and easily processed by our powerful TurboScan™200 software.

Sophisticated software toolset

Fully integrated within TotalChrom to streamline your laboratory's operation, the Series 200 Diode Array and TurboScan^{200} allow you to access, display, and manipulate spectral data with impressive speed and flexibility. TurboScan^{200} also calculates the purity and lambda max of your components, and includes this valuable information in both your chromatographic report and result file.

Use the Series 200 Diode Array to develop, qualify or evaluate methods and samples. And through TotalChrom's networking power, share your results within your laboratory or anywhere in your organization – easily.

Key Features

- Fully network compatible
- Peak purity and lambda max reporting
- Extract chromatograms at any wavelength post-run
- Full system control by TotalChrom Workstation or Client/Server

Key Benefits

- Analyze all the spectra for complete characterization
- Ensures complete separations and confirms component identification
- No need to rerun samples to generate additional data. Aids in method development for variable wavelength detectors
- Network communication ensures data security

PerkinElmer™ instruments.

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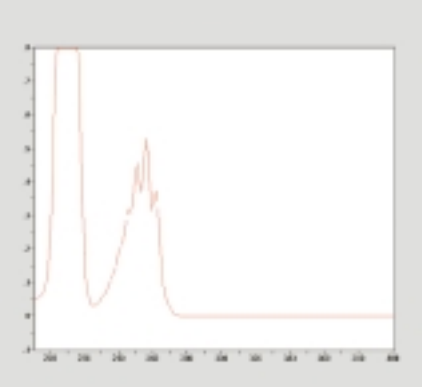


Figure 1. The Series 200 clearly resolves the characteristic “fingers” of benzene even at a 4-nm slit width as shown in this spectrum.

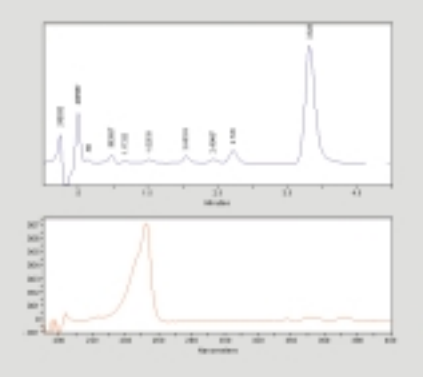


Figure 2. Chromatogram (top) and anthracene spectrum (lower) of an 8-µL injection of PE Universal Test Mix diluted 100:1. Approximate anthracene concentration of 160 pg.

Specifications

Detection type	Single beam polychromator
Sources	Simultaneous Deuterium lamp and Tungsten-halogen lamp
Number of diodes	512
Wavelength range	190 – 700 nm
Resolution	1.09 nm/diode
Absorbance range	–0.005 to 1.5 AUFS
Wavelength accuracy	±1 nm
Wavelength setability	1 nm
Spectral bandwidth	1 to 175 nm
Short-term noise	±1.5 x 10^{-5} AU peak to peak at 254 and/or 650 nm, 20-nm bandwidth, 2-second response time, slit width 4-nm effective calculations per ASTM @ 1mL/min w/100% methanol
Drift	1 x 10^{-3} AU/ hour (using above conditions)
Flow cells	Standard: 12-uL volume 10-mm pathlength Low Volume: 5-uL volume 4.5-mm pathlength
Flow cell pressure rating	500 psi
Output	Two digital channels of output via TCP/IP or RS-232 to Turbochrom Workstation or Client/Server version 6.1 or TotalChrom. Spectral data output via TCP/IP or parallel interface to LPT1 or LPT2 of controlling PC.
Dimensions	Height: 24.2 cm (9.5 in.) Width: 31.8 cm (12.5 in.) Depth: 55.5 cm (21.3 in.) Weight: 15.5 kg (34.1 lb)
Electrical requirements	120 to 240 VAC, 50/60 Hz, 195 VA

Ordering Information

Part Number	Description
N292-2130	Series 200 Diode Array Detector, 120/240 V, 50/60 Hz
S270-0055	TurboScan^{200} Spectral Processing software for Turbochrom Workstation (requires but does not include Turbochrom Workstation version 6.1 or higher)
S270-2026	TurboScan^{200} Spectral Processing software for Turbochrom Client/Server (requires but does not include Turbochrom Client/Server version 6.1 or higher)
N292-2030	Low volume flowcell (optional)

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