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Photographs: The BI-DNDC Differential Refractometer from Brookhaven Instruments

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Brookhaven launches new differential refractometer for polymer analysis

Light scattering experiments are set to become easier with the launch of the BI-DNDC Differential Refractometer by Brookhaven Instruments. The new differential refractometer has a warm-up time of just one hour and is significantly less expensive than other models on the market.

An accessory to the existing line of Brookhaven's light scattering instruments, the BI-DNDC is a deflection type refractometer that provides key information for continuing research and/or monitoring activities.

The instrument comes with sophisticated Windows-based software that can calculate the specific refractive index increment (dn/dc) in either static or dynamic mode. An accurate value of dn/dc is essential in molecular weight determination by light scattering. In dynamic mode the BI-DNDC can also be used as a concentration detector for HPLC and GPC applications.

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Easily programmable and user-friendly, the BI-DNDC can be controlled and read using the LED readout or by an external computer. Refractive index and temperature data can be transferred to a PC via a standard serial interface. Included with the instrument is a syringe kit with tubing, fittings and syringes. Other features include nine measurement ranges, active temperature control up to 80°C, autozero, reference cell flush and sensitivity of $2.5 \times 10^{-9} \Delta \text{RIU}$ – equivalent to 1.5ng fructose per mL H₂O.

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