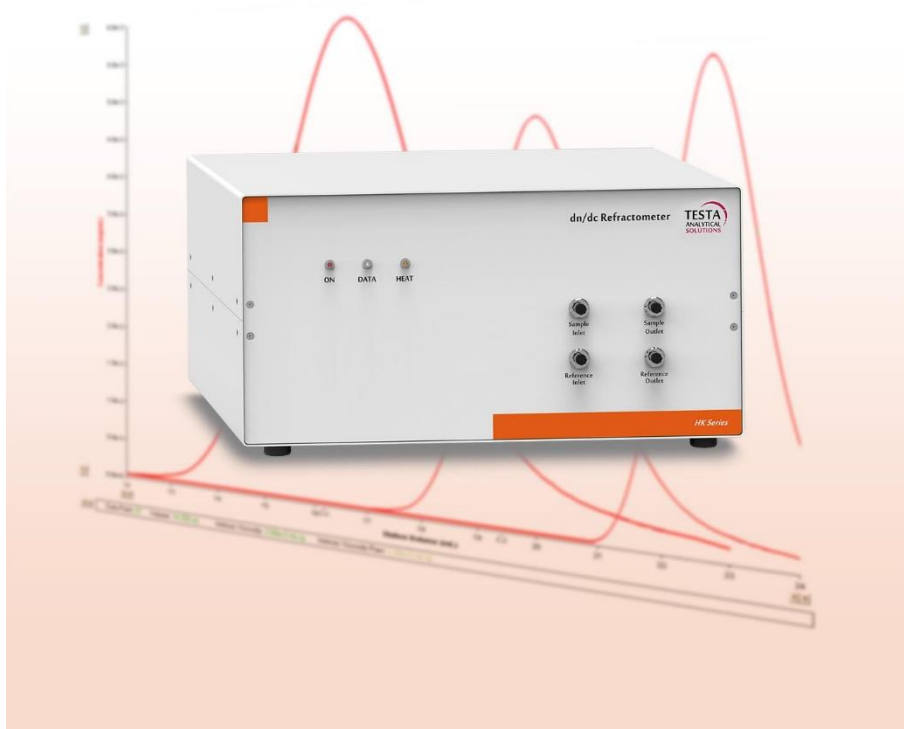


### *Wavelength Optimized Dn / dc Measurement*

TESTA Analytical Solutions e.K has introduced **new laser options** for its HK Series differential refractometer to enable precise determination of specific refractive index increment (**dn/dc**) at the same wavelength as the light scattering application under investigation.



#### **Light scattering**

is a tried and trusted method for measuring molecular weight and therefore a widely used tool for analyzing biopolymers, polymers and proteins. Most labs combine light-scattering detectors with chromatographic techniques such as Gel Permeation Chromatography / Size-Exclusion Chromatography (GPC/SEC). When using a GPC/SEC system with advanced detectors knowing the exact concentration of the sample at each data slice is very important. Accurately determining the dn/dc value, which is highly wavelength dependent, is vital because it is the link that translates raw refractive index data to sample concentration

#### **The most accurate method of determining dn/dc**

is to use a stand-alone batch instrument, such the HK Series differential refractometer, and to take measurements at different concentrations. While this uses more sample than on-line methods, it is not influenced by chromatographic parameters.

#### **The HK Series differential refractometer is**

a flexible device that may be used in either static or dynamic mode. In static mode, the specific refractive index (dn/dc) of dissolved samples can be easily and precisely determined in just a few minutes. Beneficially, the system now offers a large number of wavelength options enabling precise



matching of your light scattering detector laser operating wavelength, thereby ensuring reliable and reproducible results every time.

**For further information on**

the HK Series differential refractometer please visit <https://www.testa-analytical.com/research-light-scattering.html> or contact the company on +49-30-864-24076 or [info@testa-analytical.com](mailto:info@testa-analytical.com).

**Testa Analytical Solutions e.K**

Backed by decades of experience, Testa Analytical Solutions e.K has created a range of high-performance GPC/SEC detectors, GPC/SEC Pumps, accessories and software products customizable to meet your exact needs. Our team of knowledgeable technical and engineering staff are also available to discuss your OEM needs and to provide seamless integration of our technology into your existing or new product.

-----

**Worldwide HQ**

**Testa Analytical Solutions e.K.**

Sophienstraße 5  
12203 Berlin  
Germany

Tel: +49-30-864-24076

Email: [info@testa-analytical.com](mailto:info@testa-analytical.com)

Web [www.testa-analytical.com](http://www.testa-analytical.com)