# NIR Spectrometer

NIR spectroscopy functions in the wavelength range of 780 to 2500 nm, which is the near-infrared region of the electromagnetic spectrum. Simply put, a NIR spectrometer measures how ...

Near-infrared (NIR) spectroscopy is a non-destructive analytical tool that provides solutions from drug development to the QA/QC lab, and in at-line, on-line, or continuous manufacturing processes.

NIR spectroscopy uses near-infrared light to identify what materials are made of. Learn how it works and where it"s used, from food testing to brain imaging.

As a leader in the near infrared spectroscopy industry for more than 25 years, our range of near infrared spectrometers, spectroradiometers (NIRS), software and services have been part of thousands of ...

The instrumentation for NIR spectroscopy typically consists of a light source, which emits NIR radiation, a sample holder or cuvette, and a detector that measures the intensity of the ...

FT-NIR technology offers many advantages over classic wet chemical and chromatographic analysis methods. It is fast, inexpensive and safe because no chemicals are used and various parameters ...

It is a spectroscopic method that uses the near-infrared region of the electromagnetic spectrum between the wavelengths of 700 to 2500 nm. It is widely used for the analysis of food, agricultural, ...

Learn how to use NIR spectroscopy for process and quality control analytics in various industries. Thermo Fisher Scientific offers a full line of NIR analyzers, software, services, and resources.

NIR spectrometers are used for rapid, non-destructive analysis of chemical and physical properties such as moisture content, fat and protein levels, polymer identification, and overall material composition.

Instrumentation for near-IR (NIR) spectroscopy is similar to instruments for the UV-visible and mid-IR ranges. There is a source, a detector, and a dispersive element (such as a prism, or, more ...

A near-infrared (NIR) spectrometer measures the interaction of light and matter (i.e., the sample) in the near-infrared region of the electromagnetic spectrum, i.e., in the wavelength range of 780 to 2500 nm.

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