

Graphics of fluorescence spectrometer



Overview

Free fluorescence spectrophotometer illustrations to use in your next project. PRAGUE, CZECH REPUBLIC - April 28, 2018: Typhoon FLA 9500, laser scanner in fluorescence spectroscopy laboratory. Institute of Organic and Biochemistry. It involves using a beam of light, usually ultraviolet light, that excites the electrons in molecules of certain compounds and causes them. Fluorescence spectrophotometry is a class of techniques that assay the state of a biological system by studying its interactions with fluorescent probe molecules. This interaction is monitored by measuring the changes in the fluorescent probe optical properties.

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Schematic representation of a fluorescence spectrophotometer. The light source produces light photons over a broad energy spectrum, typically ranging from 200 to 900 nm.



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Both cylindrical and rectangular cells fabricated from glass, fused silica or plastic are employed for fluorescence measurement. Rectangular cells need to have four polished sides.



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These photonic processes involve transitions between electronic and vibrational states of polyatomic fluorescent molecules (fluorophores). The Jablonski diagram (Figure 1) offers a convenient represen ...



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When measuring fluorescence spectra, the wavelength of the excitation light is kept constant, preferably at a wavelength of high absorption, and the emission monochromator scans the spectrum.



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