

Category:Operating system manuals[Study on the influence of excitation wavelength on fluorescence spectra of N, N-dimethyl-N'-4-nitrobenzoyl-4'-amino-4-methoxy-2,2'-bipyridine]. The effects of excitation wavelength on fluorescence spectra of N, N-dimethyl-N'-4-nitrobenzoyl-4'-amino-4-methoxy-2,2'-bipyridine (DMBPY), which is a fluorescent reagent for mercuric ions, have been investigated. The fluorescence intensity of DMBPY decreased in the presence of Hg2+ when the excitation wavelength was longer than 350 nm. The fluorescence intensity gradually decreased with the increase of concentration of Hg2+ and the maximal emission intensity was obtained at 370 nm for the concentration of 10(-4) mol.L-1. On the other hand, in the absence of Hg2+ fluorescence spectra was red-shifted to 450 nm for excitation wavelength longer than 350 nm. These results suggest that the absorption maximum of DMBPY in the presence of Hg2+ occurs at 350 nm and the intensity of fluorescence is related to excitation wavelength.Electronic and magnetic circular dichroism spectra of octa-tetra-anions of a platinum(II) complex with 2,2'-bipyridine and terpyridine. The electronic circular dichroism (ECD) and the magnetic circular dichroism (MCD) spectra of the first metal-organic complexes with 2,2'-bipyridine (bipy) and terpyridine (terpy) as 4-electron donor ligands, Pt[bipy](6-), Pt[terpy](4+), and Pt[terpy](5-), were measured at ambient temperature in toluene solution. The Pt[bipy](6-) anion shows ECD and MCD spectra similar to those of [Re(bipy)(6)](4+), but the terpy anions, Pt[terpy](4+), Pt[terpy](5-), show MCD spectra different from those of the [Re(terpy)(3)](3+) cation, indicating the presence of the unpaired electron spin in these species. The

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