the amine ligand to form osmium (Ⅳ) amino species. The coupling of proton loss with the electron transfer process may cause the electrode reaction to be kinetically slow. Hence couple Ⅳ may be assigned as oxidation of the osmium(Ⅲ) centers to give an osmium(Ⅳ) amino intermediate.

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SPECTROSCOPIC STUDY AND APPLICATION ON THE INCLUSION COMPLEXATION OF β-CYCLODEXTRIN WITH ESTRADIOL BENZOATE IN AQUEOUS SOLUTION

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The inclusion complexation reaction of β-cyclodextrin with estradiol benzoate (EB) in the presence of cetyltrimethylammonium bromide has been studied by means of UV absorption and fluorescent spectrometry. The reaction conditions, the formation constant, the mechanism of the host-guest inclusion complex have been studied and a simple, highly sensitive fluorescent synergistic method for the determination of EB has been established with satisfactory results.

Key words β-cyclodextrin, estradiol benzoate, cetyltrimethylammoinum bromide, spectral analysis, inclusion complexation