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Short Communication

Electrochemical Detection of Tadalafil at Glassy Carbon Electrodes Modified with Ruthenium(II) Complex

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Ruthenium complexes are well known for their electrochemical activity, which could be attributed to the presence of stable ruthenium complexes with divalent ruthenium center, Ru^{2+}. In this work, dichlorobis[8-(diphenylphosphino)quinoline]ruthenium(II) was employed for the detection of tadalafil, a medication for erectile dysfunction, as pure standard or as an ingredient in a pharmaceutical dosage form. A linear range between 30.0 and 80.0 μM was reported with a correlation coefficient equals to 0.9661. The corresponding limit of detection (LOD) and limit of quantitation (LOQ) reported values obtained were 3.85 μM and 11.7 μM, respectively.

Keyword: Tadalafil, Ruthenium (II) Complexes, Diphenylphosphino quinoline, Oxidation

FULL TEXT