Review

Recent Advances in Electrochemical Sensing of Isoproterenol

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One of the sympathomimetic beta-adrenergic agonist medications is isoproterenol (IP), which is utilized for the treatment of heart block or bradycardia. It applies positive chrono-tropic and inotropic impacts on heart in case of heart attack, bronchitis, and cardiac chock. However, its excessive dosage may result in the arrhythmias or heart failure. Consequently, it is necessary to devise simplistic, fast, and affordable assays (e.g., electro-chemical determination) for aiding the clinical diagnostic and treatments of IP. In this review, we have covered important techniques and electrode substances utilized for the IP analysis base on the nanostructured electrodes and their chemically modifications. In addition, we have illustrated the advantages and disadvantages of the presented the electrode materials for the IP analyses.

Keywords: Isoproterenol, drug, Clinical diagnostics, Electrochemical detection, Chemically modified Electrodes.

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