Electrochemical Determination of Neopterin as Inflammatory Factor for Potential Clinic Vasculitis Diagnosis

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In the present work, we develop a novel electrochemical strategy for immunoassay of neopterin by using screen-printed array as electrodes and Neopterin–alkaline phosphatase conjugation as label chemical. Electrochemical detection instead of traditional ELISA was employed, while the traditional plastic wells were replaced by screen-printed array electrodes. Various measurements were utilized for the detection of neopterin. Using the optimized electrochemical method, a limit. The obtained results show a possibility for the clinic diagnosis of vasculitis and a variety of other inflammatory diseases.

Keywords: Neopterin; Immunoassay; Screen-printed array; ELISA; Electrochemistry

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