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(54) Title: ENZYMATIC ELECTROCHEMICAL DETECTION ASSAY USING PROTECTIVE MONOLAYER AND DEVICE THEREFOR

(57) Abstract: There is provided an electrochemical assay method for detecting a target molecule, for example a protein, in a sample, which involves the use of a protective monolayer and a redox polymer to form a bilayer immobilized on an electrode. The monolayer protects the electrode from non-specific adherence of reagents, particular proteins, to the electrode while simultaneously providing a surface that can be functionalized to immobilize a capture molecule and that can interact with the redox polymer.

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