

Determination of abscisic acid by cathodic stripping square wave voltammetry

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Abstract-

In this paper a study is accomplished on behavior in a mercury electrode, of the phytohormone abscisic acid and of the conditions of accumulation in a HMDE. A mechanism is proposed of reduction based on its electrochemical behavior and proving the product of the reduction through mass spectrometry of bulks. A method is proposed for the determination of Abscisic acid (ABA) with a quantification limit of 58 ng ml⁻¹. The procedure is applied wing determination of ABA in pears through the combination of high performance liquid chromatography (HPLC) with electrochemical quantification.

Index Terms- Abscisic acid; Phytohormone; Mercury electrode

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