

Voltamperometric determination of kinetin with a carbon paste modified electrode

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Abstract— The electrochemical behaviour of kinetin (6-furfurylaminopurine) on a carbon paste modified with OV-17 silicone electrode, is studied. The determination of kinetin is possible working in square wave voltammetric techniques, reaching limits of determination of 38.7 ng ml⁻¹. The proposed method was successfully applied to determine the cytokinin in extracts of apples (previously spiked with kinetin) and the obtained results were in accordance with the results obtained with HPLC-UV.

Index Terms— Kinetin; Electrochemical behaviour; Carbon paste

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Citation:

Ballesteros, Y.; González de la Huebra, M.J.; Quintana, M.C.; Hernández Hernández, P.; Hernández Hernández, L.; "Voltamperometric determination of kinetin with a carbon paste modified electrode", Microchemical Journal, vol.74, no.2, pp.193-202. April, 2003.