

Determination of carbendazim in soil samples by anodic stripping voltammetry using a carbon fiber microelectrode

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Abstract-

A method for the determination of carbendazim (MBC) by anodic stripping voltammetry using a carbon fiber ultramicroelectrode was developed. The ultramicroelectrode was made in our laboratory and its electrochemical behavior was characterized by measuring the electrochemical response with a solution of potassium ferricyanide. The optimum parameters used for the determination of MBC are the following: 0.05 M phosphate buffer at pH 2.0 as supporting electrolyte; a scan rate of $v = 10.00 \text{ V s}^{-1}$ and an accumulation potential of $E_{ac} = 0.00 \text{ V}$. The MBC was determined in a soil sample with the method proposed and the results found were comparable to those obtained by HPLC.

Index Terms-

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