

Voltammetric Behaviour of Cre-319, a Novel Dihydropyridine Calcium Antagonist And Its Polarographic, Uv Spectrophotometric and Hplc Determination

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CRE-319, a novel 1,4-dihydropyridine derivative, produces a cathodic polarographic peak due to the reduction of its nitro group according to the following well-known general pathway for the nitro group. The electrode mechanism is strongly dependent on the pH of the solution and follows a similar behaviour to that previously reported for nitrobenzene. The peak current shows a linear dependence with CRE-319 concentrations. This behaviour is used for analytical purposes in determining CRE-319 content in solution. In order to obtain comparative results, we have also developed a spectrophotometric and an HPLC method for quantifying CRE-319. © 1992, Taylor & Francis Group, LLC. All rights reserved.