

Voltammetric study of ketorolac and its differential pulse polarographic determination in pharmaceuticals

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A differential pulse polarographic method for the quantitative determination of ketorolac is described. Ketorolac is an antiinflammatory-analgesic agent that is directly electroreducible at the mercury electrode. The polarographic reduction is due to the reduction of the benzoyl moiety in the ketorolac molecule. For analytical purposes, a very well resolved diffusion controlled differential pulse polarographic peak obtained at pH 9 was selected. This peak was used to develop a new method for the determination of ketorolac in pharmaceutical dosage forms. Recovery study shows that the method is sufficiently accurate and precise to be applied in the individual tablet assay of commercial samples.