

Kinetic determination of caffeine in drug formulations. Sultan, Salah M.; Abdennabi, Abdella M. Dep. Chem., King Fahd Univ. Pet. Miner., Dhahran, Saudi Arabia. Arabian Journal for Science and Engineering (1992), 17(2A), 173-9. CODEN: AJSEDY ISSN: 0377-9211. Journal written in English. CAN 118:66976 AN 1993:66976 CAPLUS (Copyright (C) 2008 ACS on SciFinder (R))

Abstract

Two simple and accurate kinetic methods, the fixed time and the fixed concn. methods, for the detn. of caffeine involved the use of 3.20×10^{-3} M Ce(IV) soln. and 8.0×10^{-2} M sulfuric acid. Reaction rates were followed at 405 nm; absorbance measurements for the fixed time method were taken at 350 s; and a calibration equation was used for calcg. unknown concns. of caffeine. For the fixed concn. method, time was measured at a fixed absorbance of 1.70 and another calibration equation was used. The 2 methods were applied to the detn. of caffeine in proprietary drugs, interferences were studied, and a statistical comparison with the results obtained by the official British Pharmacopeial method was made.