Chlorodesmethyldiazepam Fluorimetric Determination in Pharmaceutical Formulations and in Aqueous Media

Ramzia Ibrahim, Taha M. A. Razek b, Ahmed E. Ramadan

Professor of Pharmaceutical chemistry, Head of Pharmaceutical Chemistry Department.

Abstract

A direct fluorimetric method for the determination of chlorodesmethyldiazepam was proposed. The fluorescence process was pH dependent. The dynamic range for the method was 1.6–12 µg ml⁻¹. A linear relationship between the fluorescence intensity and the concentration of chlorodesmethyldiazepam solution was obtained with r² of 0.9958. The detection limit for the method was found to be 0.224 µg ml⁻¹. The method has successfully applied to the determination of chlorodesmethyldiazepam in pure, authentic, and aqueous samples.

Analytical letters - 2007, December