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Spectrophotometric determination 3-(benzyliden amino)-6-methyl-2-thioxo 2,5-dihydro pyrimidine-4(3H)-one (LS) by zero order method

Hind A. Abbas

Department of Chemistry and biochemistry, Collage of Medicine, University of Al-Nahrain, Baghdad, Iraq.

Abstract: The objective of this work rapid, accurate, precise, simple, specific and expeditious spectrophotometric method was used for determination of Schiff bases 3-(benzyliden amino)-6-methyl-2-thioxo 2,5-dihydro pyrimidine-4(3H)-one (LS). It was prepared and characterized using (FT-IR, UV) spectroscopy. The quantitative determination of (LS) was carried out using the zero order derivative values measurement of light absorption in UV region. The UV spectra of Schiff bases 3-(benzyliden amino)-6-methyl-2-thioxo 2,5-dihydro pyrimidine-4(3H)-one (LS) showed that maximum absorbance of light was observed at (316) nm and linearity was observed in the concentration range of (4-12)ppm with correlation coefficient 0.997.

Keyword: 3-(benzyliden amino)-6-methyl-2-thioxo 2,5-dihydro pyrimidine-4(3H)-one (LS), Zero-order method, Spectrophotometric.

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