

Applications Ultraviolet Spectrophotometry Method with Multiple Wavelength for Simultaneous Determination Binary Mixture of Pseudoephedrine Hydrochloride and Triprolidine Hydrochloride in Tablet

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Abstract : The mixture of pseudoephedrine hydrochloride (PSE) and triprolidine hydrochloride (TRI) which is one kind of anti-influenza tablets combination. The aim of study to determination of binary mixture PSE and TRI in tablet by ultraviolet spectrophotometry with multiple wavelength technique in the matrix calculation. The methodology used to determine of PSE and TRI in tablet by spectrophotometric method with wavelength in the matrix calculation. The methodology used to determine of PSE and TRI in tablet by spectrophotometric method with wavelength in matrix calculation with 0.1 N HCL as a solvent. The multiple wavelength method measured at wavelength 220 nm, 245 nm, 251 nm, 256 nm, and 264 nm. The results were obtained the PSE and TRI in T tablet was $(101.90 \pm 0.52)\%$ and $(96.99 \pm 1.55)\%$ respectively. The results obtained were accurate and precise. The conclusions of this studies is this spectrophotometric method with multiple wavelengths in the matrix calculations can be used to determination of binary mixture PSE and TRI in tablet.

Keywords: *Pseudoephedrine HCl, Triprolidine HCl, Tablet, Multiple Wavelength, Ultraviolet Spectrophotometry.*

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