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Novel Spectrophotometric Estimation of Acyclovir Using Hydrotropic Solublizing Agent

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Abstract:

The Ultraviolet absorption spectrophotometric method for the estimation of poorly water soluble drug, acyclovir. In pharmaceutical formulation has been developed aqueous solubility of this selected model drug was in 5M Urea solution. The primary objective of the present investigation was to employ hydrotropic agent to improve solubility of poorly soluble drug, without use of costlier organic solvents. The selected wavelength for Acyclovir was 254nm. The hydrotropic solution did not interfere in method development of Acyclovir. The result analyses have been validated statistically and recovery studies. The proposed methods are new, simple, economic, accurate safe and precise.

Keywords: Acyclovir, Hydrotropic Agent, Urea, Spectrophotometric Estimation.