



Development and validation of uv-visible methods for Imatinib Mesylate in bulk and tablet dosage form

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Abstract : The present work deals with development of two rapid, precise and accurate spectrophotometric methods for the estimation of Imatinib Mesylate in bulk and solid dosage form. Method A is area under the curve in which wavelength range 237-277nm was selected for estimation of Imatinib Mesylate. Method B is area under the curve in which wavelength range 400-800nm was selected for estimation of Imatinib Mesylate. Linearity was observed in the concentration range 2-10 μ g/ml for both the methods ($r^2=0.9992$ for method A and method B). The results of analysis have been validated statistically, which confirm the accuracy and reproducibility of the methods. All the methods were found to be simple, precise and accurate and can be employed for routine quality control analysis of Imatinib Mesylate in bulk as well as in its solid dosage form.

Keywords : Imatinib Mesylate, UV spectrophotometry, visible spectroscopy, LOD, LOQ, Robustness.

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