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Development and Validation of a Spectrophotometric Method for Glibenclamide in Bulk and Tablet Dosage Forms

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Abstract: Two simple spectrophotometric methods have been developed for estimation of Glibenclamide from tablet dosage form. First method, Area under curve method, area under curve in the range of 295.0-310.0 nm was selected for the analysis. Second method is First order derivative spectroscopy, the absorbance was measured at λ max=296.50 nm, λ min=308.3 nm & Zero cross=301.0nm. Linearity for detector response was observed in the concentration range of 40-90 μ g/ml. The accuracy and precision of the methods were determined and validated statically. All the methods showed good reproducibility and recovery with % RSD less than 2. The proposed methods were found to be rapid, specific, precise and accurate and can be successfully applied for the routine analysis.

Keywords: Accuracy, Precision, % Recovery, Glibenclamide, First order derivative spectroscopy, Area under curve method.

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