

(54) Title of the invention : METHOD FOR QUANTITATIVE ESTIMATION OF GLYBURIDE IN BULK DRUG AND PHARMACEUTICAL FORMULATION

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(57) Abstract :

ABSTRACT METHOD FOR QUANTITATIVE ESTIMATION OF GLYBURIDE IN BULK DRUG AND PHARMACEUTICAL FORMULATION The invention provides a validated, rapid, accurate, precise, and cost-effective RP-HPLC method for quantitative estimation of Glyburide in bulk drug and pharmaceutical formulations. The method employs a C18 column (250 × 4.6 mm, 5 μm) with a mobile phase consisting of Acetonitrile and Water in 50:50 ratio (v/v), adjusted to pH 4.0, at a flow rate of 1.0 mL/min, and UV detection at 230 nm. The method demonstrates a retention time of approximately 9.0–9.2 minutes, linearity in the range of 10–50 μg/mL ($R^2 \approx 0.997$), accuracy of 98–101%, and precision with %RSD 2%. The method is robust and suitable for routine quality control analysis of Glyburide-containing dosage forms.

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