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(57) Abstract :

The present invention relates to a UV-Visible spectrophotometric method for accurately estimating rabeprazole sodium in tablet dosage forms. The procedure involves preparing a standard stock solution and dissolving, sonicating, and diluting tablet samples for measurement. A calibration curve established within a linearity range of 2–10 µg/ml ensures accurate concentration readings. Validated according to ICH guidelines, the method demonstrates precision, accuracy, linearity, robustness, and sensitivity, with low limits of detection (LOD) and quantitation (LOQ) suitable for detecting small quantities. Minor condition changes do not affect results, confirming its robustness and adaptability in routine analysis. This method is cost-effective, eco-friendly, and applicable to quality control in pharmaceutical settings.

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