Development and validation of Q-absorbance ratio method for simultaneous estimation of

cinitapride hydrogen tartrate and rabeprazole sodium in combined tablet dosage form

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The present manuscript describes simple, sensitive, rapid, accurate, precise, reproducible and economical Q-absorbance ratio method for the simultaneous determination of Cinitapride Hydrogen Tartrate (CINI) and Rabeprazole Sodium (RABE) in combined tablet dosage form. Q-absorbance ratio method uses the ratio of absorbances at two selected wavelengths, one which is an isoabsorptive point and other being the λ-max of one of the two components. The utility of this method is to calculate unknown concentration of components of interest in a mixture containing an interfering component. CINI and RABE show an isoabsorptive point at 273 nm in methanol. The second wavelength used is 260 nm, which is the λ-max of CINI in methanol. The linearity was obtained in the concentration range of 4-40 µg/ml for both CINI and RABE. The mean recovery was 98.60±0.38 and 97.86±0.56 for CINI and RABE respectively. The assay result was 99.04±0.95 and 98.76±0.71 for CINI and RABE respectively. The method was successfully applied to pharmaceutical dosage form because no interference from the mixture excipient was found. The suitability of this method for the quantitative determination of rabeprazole sodium and cinitapride hydrogen tartrate was proved by validation.

Biography
Patel Ankit B has completed his Master Degree at age of 23 from Ganpat University, India. He is interested in research in Pharmaceutical field. He has presented more than 4 papers in various conferences.

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