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A Non-Aqueous Potentiometric Titration Method for Validation of Drotaverine Hydrochloride from Pharmaceutical Dosages

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Abstract : A simple precise, rapid accurate and sensitive non-aqueous potentiometric titration method was developed for quantitative determination of Drotaverine hydrochloride from pharmaceutical dosage form. The titration was carried out using standardized0.1 N perchloric acid. The proposed method was found to be precise with % RSD <1 (n = 6). The method showed strict linearity (r^2> 0.999) between 20 % to 100 % of 500 mg of drug substance weight. The percentage recovery of Drotaverine hydrochloride in the optimized method was between 99.747 to 100.325%. The method is also found to be rugged when checked by different analysts and using different lots of reagents and different makes of titrators.

Key-Words : Drotaverine hydrochloride, Perchloric acid, Potassium hydrogen phthalate, Glacial acetic acid.

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