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Validated RP-HPLC method development for the simultaneous estimation of lisinopril and hydrochlorthiazide in bulk and pharmaceutical dosage form

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A simple and cost HPLC method is described for the determination of Lisinopril and Hydrochlorothiazide in pure form and in pharmaceutical formulations. The drugs were highly soluble in acetonitrile so it was selected as the solvent system for the drugs. This ensured adequate drug solubility and maximum assay sensitivity. The linearity range for Lisinopril and Hydrochlorothiazide at its wavelength of detection of 230 nm was obtained as 20-30 µg/ml and 270 nm as 50-75 µg/ml. The absorbance was found to increase linearly with increasing concentration of Linisopril and Hydrochlorothiazide , which is corroborated by the calculated correlation coefficient value of 0.9999. The limit of detection and limit of quantification of Lisinopril and Hydrochlorothiazide was found to be 0.10 µg/ml & 0.32 µg /ml and 0.10 µg/ml & 0.30 µg/ml respectively. The validity of the described procedure was assessed. Statistical analysis of the result shows high accuracy and good precision. The proposed method was successfully applied to the determination of Lisinopril and Hydrochlorothiazide in pharmaceutical formulations

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