



ChemTech

International Journal of ChemTech Research

CODEN(USA): IJCRGG, ISSN: 0974-4290,

ISSN(Online):2455-9555

Vol.10 No.3, pp 321-325,2017

Simultaneous Determination and Validation of Ramipril And Hydrochlorothiazide by RP-HPLC Method

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Abstract: RP-HPLC method in which simultaneous determination of Ramipril and Hydrochlorothiazide, in bulk and combined formulations was carried on a reverse phase C-18 column using a mobile phase consisting of Orthophosphate buffer: acetonitrile(60:40v/v) with a neutral pH. The mobile phase was pumped at a rate of 0.8ml/min and the UV detection was carried out at 294 nm. The linearity was found to be in the range of 50-150 $\mu\text{g/ml}$ and 50-150 $\mu\text{g/ml}$ with regression coefficient 1, for Ramipril and Hydrochlorothiazide respectively. The peaks obtained were sharp having clear baseline separation with a retention time of 2.4 min and 1.4 min for Ramipril and Hydrochlorothiazide respectively.

Key words:Ramipril, Hydrochlorothiazide, RP-HPLC.

Madhavi.A *et al*/International Journal of ChemTech Research, 2017,10(3): 321-325.
