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Development and validation of stability indicating HPLC method for the estimation of atorvastatin calcium and telmisartan in bulk and pharmaceutical dosage forms

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A simple, sensitive, accurate stability indicating HPLC method was developed and validated for the estimation of Atorvastatin calcium and Telmisartan in bulk and pharmaceutical dosage forms. The quantification was carried out using Hypersil BDS C_{18} (250× 4.6, 5 µm) column. The mobile phase consists of the mixed phosphate buffer and acetonitrile in the ratio of 55:45w/v. The pH was adjusted to 6.8 with dilute phosphoric acid. The flow rate was found to be 1ml/min and detector wavelength was 254nm. The calibration curve was linear and the concentration range was found to be 8-48 µg/ml and 16-96 µg/ml for Atorvastatin calcium and Telmisartan with the correlation coefficient of Atorvastatin calcium and Telmisartan 0.9988 and 0.9994 respectively. Under the forced degradation studies the % amount of drug degraded for Atorvastatin calcium and Telmisartan at 2, 8 and 12 hrs was found 1.4, 50, 89.84 % for acidic(0.1HCl) condition 34.37, 37, 92.18 % for basic (0.1NaOH) condition, 6.25, 43.75, 46.87 % for oxidation (H_2O_2) condition and 7.81, 51.56, 89.53 % for UV Lamp were found. The percentage recovery of Atorvastatin calcium and Telmisartan was found to be 99.80 and 99.52 respectively.

Biography

Sai Thanuja. V, is a student of JSS College of Pharmacy, JSS University, Mysore. She has completed her B.Pharm from JSS College of pharmacy, JSS University, Mysore. Presently she is pursuing her M.Pharm Degree in the branch of Pharmaceutical analysis. Her current area of research is on analytical method development of novel drugs using HPLC.

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