Evolution and effectiveness of HPLC technique for rapid estimation of an antiallergenic agent bilastine

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Abstract

A new, simple, accurate and specific RP-HPLC stability indicating method for determination of bilastine has been developed and validated. The proposed method has been administrated by C18 BDS Hypersil thermo column (4.6 x 250 mm i.d), 5 µm particle size with a combination of potassium dihydrogen phosphate buffer pH 6.0: acetonitrile: methanol (50:25:25) as mobile phase at wave length 220 nm. The retention time has been 3.9 min for bilastine. Calibration plot has been linear over the concentration range 14.4–33.6 µg/ml bilastine with LOD and LOQ of 0.04 and 0.11 µg/ml, severally. The technique has been validated for linearity, sensitivity, accuracy, precision and robustness. Percent recoveries have been observed near to a hundred percent with slight change. The validated method has been applied for determination of bilastine in Pharma-bilast(R) tablets. The technique could be appropriate for routine evaluation at laboratories.

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