**ABSTRACT**

A simple, fast and precise reversed phase high pressure liquid chromatography method has been developed and validated for the simultaneous estimation of Aspirin and Dipyridamole in marketed formulations (Capsules). Phenomenex Luna C18, 5 μm, 250 × 4.6 mm I.D. column with mobile phase acetonitrile: water (60:40 v/v), flow rate 1.0 ml/min and the effluent monitored by UV detection at 230 nm. The proposed method was validated for parameters viz., specificity, accuracy, precision, linearity, range, limit of detection, limit of quantitation, system suitability. The linearity of Aspirin and Dipyridamole were in the range of 5-25 μg/ml respectively. The percentage recovery was found to be 98.16- 101.2% and 98.75-99.6% for Aspirin and Dipyridamole respectively. The proposed method can be used for the routine analysis of the drugs combination in dosage form and in bulk powders.

**Key words:** Estimation, HPLC method, Validated, Aspirin, Dipyridamole, Capsules, Bulk powders.