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Formulation and Evaluation of Colon Targeted Aceclofenac Sodium sustained release Tablets

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Abstract : The aim of the study was to develop and evaluate SR matrix tablet of Aceclofenac for colonic delivery by exploiting prolonged release characteristics of HPMC K4M with pH dependent solubility property of a Eudragit S100. Extended release matrix tablet were prepared by using combination of hydrophilic polymer HPMC and Synthetic Eudragit S100. The pH dependent release was achieved by coating matrix tablet with Eudragit S100, soluble at pH7. The formulation HS3 was most likely to provide targeting of aceclofenac in the colon owing to its minimal release of the drug in the first 4 hr and give release up to 12 hr with 67.78%. The presence of hydrophilic HPMCK100M sustains the drug release in colon due to formation of gel layer around the core tablet and EudragitS100 releases drug slowly over prolong period of time by forming pores.

Key words : Aceclofenac sodium, colon target, sustained release, Eudragits.

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