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A Zeolite Based Formulation of Leukeran Tablets: Synthesis, Characterization, and Drug Release Evaluation

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Zeolites are hydrated natural and synthetic microsporous crystals with structure specially as inorganic drug delivery systems. Drug such as aspirine, and metronidazole have been studied for their interactions with different types of zeolites. Our purpose in this study was to formulate a zeolite based leukeran tablet, as well as evaluation of drug release properties of the new tablet. After preparation of dried zeolite-leukeran powder using solvent evaporation technique and addition of the optimum combination of suitable excipients, the powder was pressed with 20N pressure using a single punch compressing machine. The routine analytical methodes on the experimental zeolite based tablets were performed. Comparing the results of dissolution studies of these tablets with that of the commercially available leukeran tablets (wellcom company) showed that the zeolite based tablets have sustained release properties.