Research Paper

DEVELOPMENT OF SUSTAINED RELEASE DIVALPROEX SODIUM TABLETS AND THEIR EVALUATION

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If one were to imagine the ideal DDS, two prerequisites would be required. First, it would be a single-dose for the duration of treatment, whether it is for days of weeks, as with infection, or for a lifetime of the patient, as in hypertension or diabetes. Second, it should deliver the drug directly to the site of action, thereby minimizing or eliminating side effects. SR has received most of the attention because of the fact that there is more feasibility in dosage form. The matrix system is most often used for a drug-controlled release from a pharmaceutical dosage form. The present study was aim to formulate and evaluate the Sustained release oral matrix tablet by using Divalproex Sodium as a model drug and see the effects of different polymers to prolong the release of drug for extended period of time. Various formulations of extended release tablets of Divalproex Sodium were developed using the polymers like Benecil K4M and Benecil K100M in different proportion by direct compression technique. Observations of all formulations for physical characterization had shown that, all of them comply with the specifications of official pharmacopoeias and/or standard references. Results of in vitro release profile indicated that formulation SF9 & SF16 were the most promising formulation as the extent of drug release from this formulation was optimum when compared to other formulations.

Key words: Divalproex Sodium, direct compression, Sustained Release.

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