

Microencapsulation of Phenobarbital by Ethyl Cellulose Matrix

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Abstract : The aim of this study was to evaluate the potential use of EthylCellulose in the preparation of microspheres as a Drug Delivery System for sustained release of phenobarbital. The microspheres were prepared by solvent evaporation technique using ethylcellulose as polymer matrix with a ratio 1:2, dichloromethane as solvent and Polyvinyl alcohol 1% as processing medium to solidify the microspheres. Size, shape, drug loading capacity and entrapment efficiency were studied.

Keywords : phenobarbital, microspheres, ethylcellulose, polyvinylalcohol

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