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(57) Abstract :

The present invention discloses a method for improving the solubility of the drug rifabutin through inclusion complexation method. -Cyclodextrin (BCD) and its derivative hydroxypropyl β -cyclodextrin (HPBCD) were used to prepare inclusion complex of rifabutin at different weight ratios by kneading method. Required quantity of polymer according to the formulation code was added into a mortar and wetted the polymer using water and methanol mixture (50% v/v) to obtain a paste of polymer. Rifabutin was added slowly into the paste of polymer. Kneading of the drug with polymer was performed manually in a mortar for about one hour. The mixture was dried overnight at 40 °C in a hot air oven. The dried product was grounded by using mortar and pestle. The resulted powder was passed through sieve number 85 and the inclusion complex was kept in a well closed container.

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