



Research Article



Formulation and evaluation of esomeprazole magnesium delayed release tablets 40mg

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ABSTRACT

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The present study was an attempt to formulate and evaluate enteric coated tablets for esomeprazole magnesium dihydrate. Different core tablets were prepared and formulation was selected for further enteric coating, based on the disintegration time. Seal coating was applied to achieve 3% weight gain. Enteric coating was carried out using different polymers like hydroxyl propyl methylcellulose phthalate to achieve 5% weight gain. Disintegration studies showed that the formulations failed in 0.1 N HCl media. Hence the quantity of enteric coating was increased to 8% w/w. In vitro analysis of the developed tablets was carried out. Results from disintegration time and dissolution rate studies indicate that all the esomeprazole enteric tablets prepared possess good integrity, desirable for enteric coated tablets.

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