

Dahiya S, Asati S, Mallurwar V. Formulation and evaluation of granisetron hydrochloride orodispersible tablets. *Bull. Pharm. Res.* 2011;1(2):41-6.

**Abstract:** The object of the present work was to formulate and evaluate orodispersible tablets of granisetron hydrochloride, a highly water soluble, tasteless, antiemetic drug employing superdisintegrants explotab, crospovidone, Ac-Di-Sol. The mix powder blends of varying compositions were prepared and evaluated for micromeritic properties and then subjected to tablet preparation by direct compression method. The prepared tablets were evaluated for physical parameters, wetting time, disintegration time, content uniformity and *in vitro* dissolution. The physical parameters were found satisfactory and the disintegration time of tablets was found between 19 to 35 seconds which is well below the limit of disintegration time by European Pharmacopoeia *i.e.* 3 minutes where as wetting time was found between 26-34 sec. Tablets prepared with crospovidone at 5% level (F4) was found to be the best formulation as it exhibited satisfactory physical parameters, least disintegration and wetting time and highest percent drug release (99.45%) at 10 min. Furthermore, F4 showed good stability at accelerated conditions (40°C ±75% RH). The studies aid in the judicious selection of type and concentration of superdisintegrants in order to formulate a cost effective and patient friendly dosage form.

**Key words:** Granisetron hydrochloride, Superdisintegrants, Orodispersible tablets, Antiemetic.

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