



Formulation and Evaluation of Floating Tablets of Ranolazine using Eudragit-E100 and Guar Gum

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Abstract: The objective was to develop gastric floating drug delivery systems of ranolazine floating tablets by using various polymers like Eudragit E-100 and Guar Gum. In the present work attempts have been made to prepare ranolazine floating tablets by direct compression method by using sodium bicarbonate, avicel, magnesium stearate, Eudragit E-100 and Guar Gum. Formulations F₁- F₉ of floating tablets of Ranolazine were prepared using variable concentrations of Eudragit and Guar Gum. The prepared formulations were evaluated for various evaluation tests like thickness, hardness, weight variation, friability, drug content and uniformity. The buoyancy lag time and total floating time was studied for all the formulations. From all the formulations F₇ of sustained release tablets of Ranolazine containing a combination of both polymers was found to be optimized formulation for 12 hours release as it fulfilled all the requirements.

Keywords: Ranolazine, sustained release floating tablets, GFDDS, Eudragit E-100.

DOI= <http://dx.doi.org/10.20902/IJPTR.2021.140111>

B.Sravya et al /International Journal of PharmTech Research, 2021,14(1): 125-135.
