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## Formulation & In-Vitro Evaluation of Tolperisone HCl Buoyant Tablet

By Meman, Asfak / Patel, Mukesh

Condition: New. Publisher/Verlag: LAP Lambert Academic Publishing | The present investigation was aimed to formulate and evaluate buoyant tablet of Tolperisone HCl were prepared by direct compression method based on natural polymers (e.g. Xanthan Gum and Guar Gum) as matrix forming material and different concentration of sodium bicarbonate as gas generating agent. Tolperisone HCl is a skeletal muscle relaxant. Drug is more stable in acidic medium (pH4.5), and in alkaline medium Tolperisone breaks down into 4-MMPP0 [2 methyl-1-(4methylphenyl)-propanone] and piperidine. Thus, the patient is exposed to an uncontrollable quantity of genotoxic agent 4-MMPP0. By preparing buoyant tablet of this drug with controlled release reduce dosing frequency, better patient's compliance and eliminate side effects. Full factorial design was used for optimization variable. The release mechanism were explored and explained by applying zero order, first order, Higuchi and Korsmeyer equation. Regression analysis and analysis of variance were performed for dependent variables. | Format: Paperback | Language/Sprache: english | 148 pp.


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