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EFFECT OF HYDROTROPIC AGENTS ON SOLUBILITY OF LOPERAMIDE

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Kotta Kranthi Kumar,^{*1} Anjali Veeram,¹ Dr. L. Srinivas².

^{*1,1}*Department of Pharmaceutics, SKU College of Pharmaceutical Sciences, S.K.University,
Anantapuramu, A.P.*


²*Gitam Institute of Pharmacy, Visakhapatnam Andhra Pradesh, India.*

E-mail:-kranthikumarkotta@gmail.com

ABSTRACT

The enhancement of oral solubility of poorly soluble drugs remains one of the challenging aspects of drug development. Loperamide is an oral anti-diarrheal, poorly water soluble drug. The low aqueous solubility of Loperamide delays its rate of absorption. It is a promising technique to enhance the aqueous solubility of low soluble drugs in the presence study various hydrotropic agents like sodium benzoate, sodium acetate, sodium salicylate, benzoic acid, and urea. Were employed for hydro tropes preparation various concentration of sodium acetate hydrotropic agent enhanced solubility of loperamide with 9m sodium acetate the solubility of loperamide was found to be 25.75 microgram/ml from the above result the solubility of loperamide with sodium acetate in different concentration(0.5,1,2,3,4,5,6,7,8,9 and 10)was enhanced aqueous solubility of loperamide.

KEY WORDS:-Loperamide, Sodium Acetate, Sodium Benzoate, Hydrotropic Technology.

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