

ABSTRACT BOOK



Development of Taste Masked Orodispersible Tablets of Azithromycin

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Aim and Objectives: The present investigation was aimed at taste masking of Azithromycin orodispersible tablets prepared by hot melt spray congealing technology to improve the bitter taste of the drug.

Methodology: The Azithromycin orodispersible tablets were formulated by using hot melt spray congealing and two different taste masking agents *viz.* Glyceryl behenate and cetyl alcohol to arrive at the optimum quantity of lipids required to mask the bitter taste of Azithromycin.

Results and Discussion: FT-IR spectrum of Azithromycin dihydrate, glyceryl behenate and cetyl alcohol shows characteristic molecular peaks within the standard range indicating their identity (Fig. 1). The dissolution rate was found to be 89.73% i.e. better in prototype F3 as compared to F1 & F2 (Fig. 2).

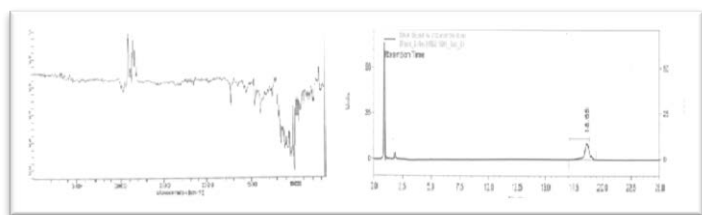


Fig. 1: FTIR of Azithromycin dihydrate **Fig. 2:** Dissolution profile glyceryl behenate and cetyl alcohol

Conclusion: The findings of investigation suggest that Glyceryl behenate is a better taste-masking agent than cetyl alcohol when processed at lower temperature. Therefore binary composition of Glyceryl behenate and cetyl alcohol was processed at lower temperature for better taste masking effect.

References:

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