

# Creation and Assessment of Extended-Release Salbutamol Tablets with Innovative Polymeric Coating in Tablet Formulation

Assistant Professor, Department of Organic Chemistry, University of Karnataka, India

In recent times, modifed drug dosage forms of ers manifold merits, such as maintain or sustaining constant drug level at the site of action, prevention of peak concentration fuctuation, reduction in dose of drug, reduced dosage frequency, averting the side effects and which in turn availing improved patient compliance. Hence in this current study, an effort has been made to develop a modifed drug release by using tablet in tablet technique encompassing novel polymeric coating by using natural and synthetic polymers with Salbutamol sulphate. The inner core tablets were prepared by using different polymers like HPMC, Ethyl cellulose, Xanthum gum and Guar gum in different ratios among which 1part of Xanthum gum and 1part of Guar gum was optimized based on the lag time (20.75% in 4 hours) and percent of drug release and also further evaluated.

### Keywords:

### Introduction

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#### Circadian rhythms and their implications

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 $f_{1} = \frac{f_{1}}{f_{1}} + \frac{f_{1}}{f_{1}} + \frac{f_{2}}{f_{2}} + \frac{$ 

# Materials and Methods (Formulation of core tablets by direct compression)

### Materials

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## Methods

### Preparation of core tablet blend