

## Research Article of Formulation and Evaluation of Fast Dissolving Tablet of Nitrendipine

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### ABSTRACT

**Objective:** The aim of present study is to formulate fast dissolving tablet of Nitrendipine, the drug will be directly absorbed into systemic circulation through buccal mucosa and lead to produce immediate action.

**Methods:** Fast dissolving tablets of Nitrendipine were prepared by wet granulation method. Required quantity of drug and other excipients were weighed and sieved from sieve no.60 for finding homogenous mixer, then a damp mass of mixer was prepared by using distilled water as a solvent. Damp mass was passed through sieve no. 10 and dried the granules at 50 °C till moisture remaining less than 2%.

**Results:** All the formulated tablets met the pharmacopoeias standard of uniformity of weight, percentage friability, thickness, and drug content. The in vitro disintegration and dispersion studies were also performed, which shows very good bioavailability and drug release profile. Accelerated stability studies were done for four weeks and found that no significant change in drug content and other parameters like hardness and in vitro dispersion time after four weeks even at 50 °C. It may be predicted that formulation will be stable for more than one year.

**Conclusion:** The present investigation successfully formulated mouth dissolving tablets of Nitrendipine with improved drug release profile. The formulation was chosen because it showed good results in terms of cumulative drug release, disintegration time, hardness and friability. The dissolution study of this formulation showed an increase in the cumulative % drug release.

**KEYWORDS:** Fast dissolving tablets, Nitrendipine, Bioavailability, Wet granulation method, Carr's index

### INTRODUCTION

Fast dissolving tablets is a solid dosage form that dissolves or disintegrates within a minute in the oral cavity without the need of water and has a pleasant taste. FDT is also known as an orally disintegrating tablet, fast-dissolving tablet, fast-melting tablet, mouth melting tablet or fast-disintegrating tablet. Fast disintegrating dosage form has been successfully commercialized, and the growing importance was highlighted recently when the European Pharmacopoeia adapted the term 'or dispersible tablets' as a tablet to be placed in the mouth where it disperses rapidly before swallowing [1, 2]. FDTs are designed to disintegrate or dissolve rapidly on contact

with saliva, thus eliminating the need for chewing the tablet, swallowing an intact tablet, or taking the tablet with water. Although no water is needed to allow the drug to disperse quickly and efficiently, most technologies utilize the body's own salivation. This mode of administration was initially expected to be beneficial to pediatric and geriatric patients, to people with conditions related to impaired swallowing, and for the treatment of patients when compliance may be difficult (e. g. psychiatric disorders). FDT has previously been distinguished as a separate dosage form because of the specific, intended performance characteristics of such products, which are rapid oral

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PHARMACOGNOSY AND PHYTOCHEMISTRY-II (BP504T) Mr. Ansari Zaki Iqbal Mohammed Ramzan, Prof. (Dr.) Supriya Agnihotri, Dr. Mukesh Kumar Meena, Brijesh Kumar Singh, Dr. N. Ramasamy, 2024-12-25 According to PCI regulations the title of the book is PHARMACOGNOSY AND PHYTOCHEMISTRY II The writer s original intent for the book was to present an integrated database for PHARMACOGNOSY AND PHYTOCHEMISTRY II that would be simple to understand This book s purpose is to enlighten readers on cutting edge drug delivery methods and to steer instructors and students toward key ideas in Pharmacology II The main goal of writing this textbook was to give the material in a clear concise manner to fulfil undergraduate students needs in accordance with PCI guidelines This book was created to educate post graduate students on pharmaceutical jurisprudence as well as adhere to the PCI curriculum for pharmacy undergraduate courses We guarantee

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