



Controlled Release Society Indian Chapter

One Day National Seminar on

Translational Research: From Bench to Bedside

Sunday, 17th November, 2019

SOUVENIR & ABSTRACT BOOK

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All Pharmacy Colleges

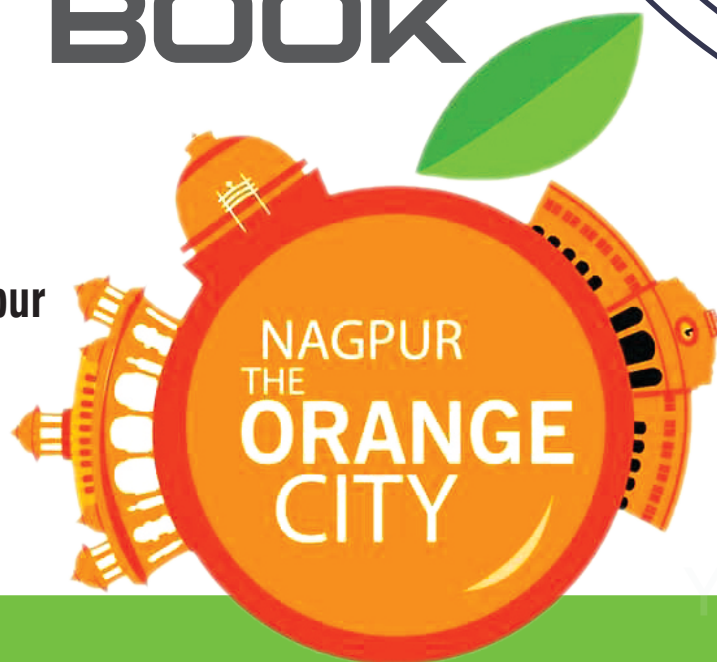
Affiliated to R.T.M. Nagpur University, Nagpur

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SOUVENIR

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FORMULATION DEVELOPMENT AND EVALUATION OF STABLE INJECTABLE DOSAGE FORM CONTAINING ANTICANCER DRUG

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Abstract:

Aim: The present research work was aimed to develop a lyophilized injectable dosage form of drug cyclophosphamide. **Objectives:** The goal of the present project work was to envisage and overcome the drawbacks associated with drug cyclophosphamide and to formulate a stable formulation by lyophilization technique. **Methodology:** In the lyophilization method purified water was used as a solvent system which gives the stable bulk formulation. Product shows 08 hours stability of bulk solution, after the finalization of bulk formulation; process condition was optimized & taken at room temperature and at 2-8°C. Lyophilization development was carried out with 3 different lyophilization runs. Lyophilization cycle 3 gave best results. Accelerated stability study was done for 3 months. **Result and discussions:** The formulation was evaluated and found satisfactory. Assay was found to be 99.3%, pH was within range of 3.0-5.0, water content was 0.7% w/w and reconstitution time was found to be 3 min. After performing the stability study the drug was found to be stable in injectable form. **Conclusion:** From the above results it was concluded that lyophilization technique is an advantageous tool for the development of stable injectable dosage form for the drug cyclophosphamide.

Keywords

Cyclophosphamide, Lyophilization, Injectable, Anticancer.

