



Controlled Release Society Indian Chapter

One Day National Seminar on

Translational Research: From Bench to Bedside

Sunday, 17th November, 2019

SOUVENIR & ABSTRACT BOOK

Organized by -

All Pharmacy Colleges

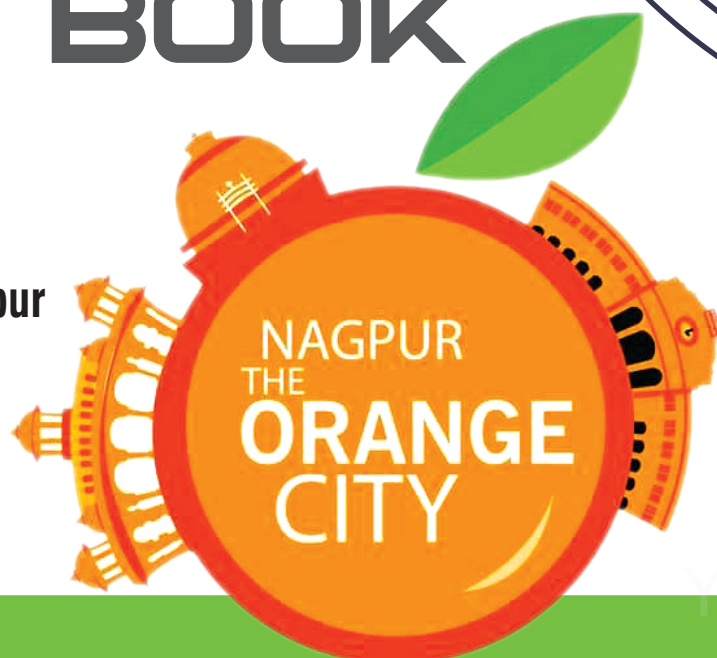
Affiliated to R.T.M. Nagpur University, Nagpur

Venue :

Hotel Tuli Imperial

Ramdaspath,

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SOUVENIR

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Evaluation of Nutraceutical Formulation for Treatment of Nutrients Deficiency

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Abstract:

Introduction: Malnutrition is directly responsible for 300,000 death per year in children younger than 5 year in developing countries. Nutraceutical and nutritional therapy theory, it achieves this goal by using efficacy of such nutraceuticals in detoxifying the body, avoiding vitamin and mineral deficiencies, and restoring healthy digestion and dietary habit. **Objectives:** The main objective of this formulation to develop a nutraceutical formulation containing traditional herb components for treatment of malnutrition and also to evaluate developed formulation for its stability and efficacy. It reduces the prevalence of wasting and stunning among children and to promote normal mental, physical and metabolic development. **Experimental method:** Nutraceutical formulation was prepared by the following method.. Mahua paste and sugar (20g + 40g) was boiled. The pulp of another three ingredient, Moringa, Shankhpushpi, and Bramhi were added. Then citric acid and pectin were added in the formulation. Sodium metabisulphite and sodium benzoate were added as preservatives. The mixture was stirred continuously for 10 min, which resulted in the formulation of jam. The formulations were evaluated using FTIR, DSC studies, antioxidant scavenging activity, viscosity, transparency and uniformity. **Result and Discussion:** FTIR of Moringa oleifera 3567.47 cm⁻¹, 2917.38 cm⁻¹, 2848.91 cm⁻¹ N-H Stretching, C-H stretching, Carbonyl C=O stretching. Bacopa monneri 2853.73 cm⁻¹, 2848.91 cm⁻¹, C-H stretching, Carbonyl C=O stretching. Convolvulus pluricaulis 3575.12 cm⁻¹, 1734.04 cm⁻¹, N-H Stretching, Carbonyl C=O stretching. **Antioxidants activity:** Scavenged Hydrogen peroxide 40.28%, Scavenged Nitric Oxide 14.86%. **Conclusion:** From evaluated parameters it has been concluded that the present investigation revealed that on the basis of nutritional values, vitamins values and accelerated stability study of T8 formulation found to be superior than rest with efficient viscosity, transparency and uniformity.

Keywords

Neutraceuticals, Nutrients, Bacopa Moneri

