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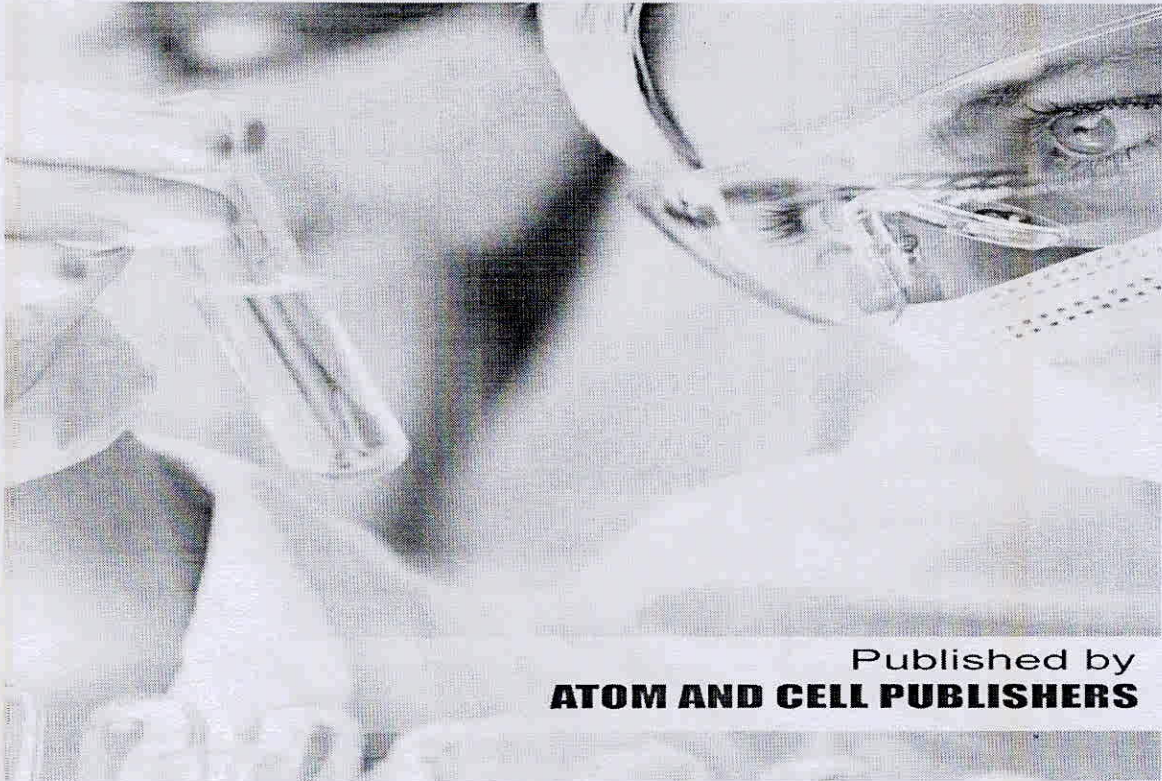
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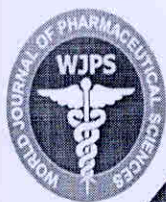


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### Original Article: Evaluation of Compressional and Mechanical properties of Cocoyam (Colocasia esculenta) starch flour and its Tablets

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Dr. Pravin J. Patil

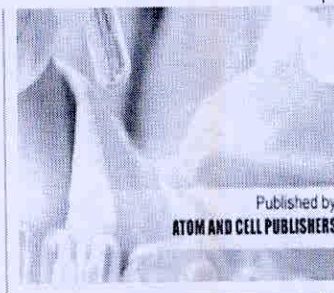
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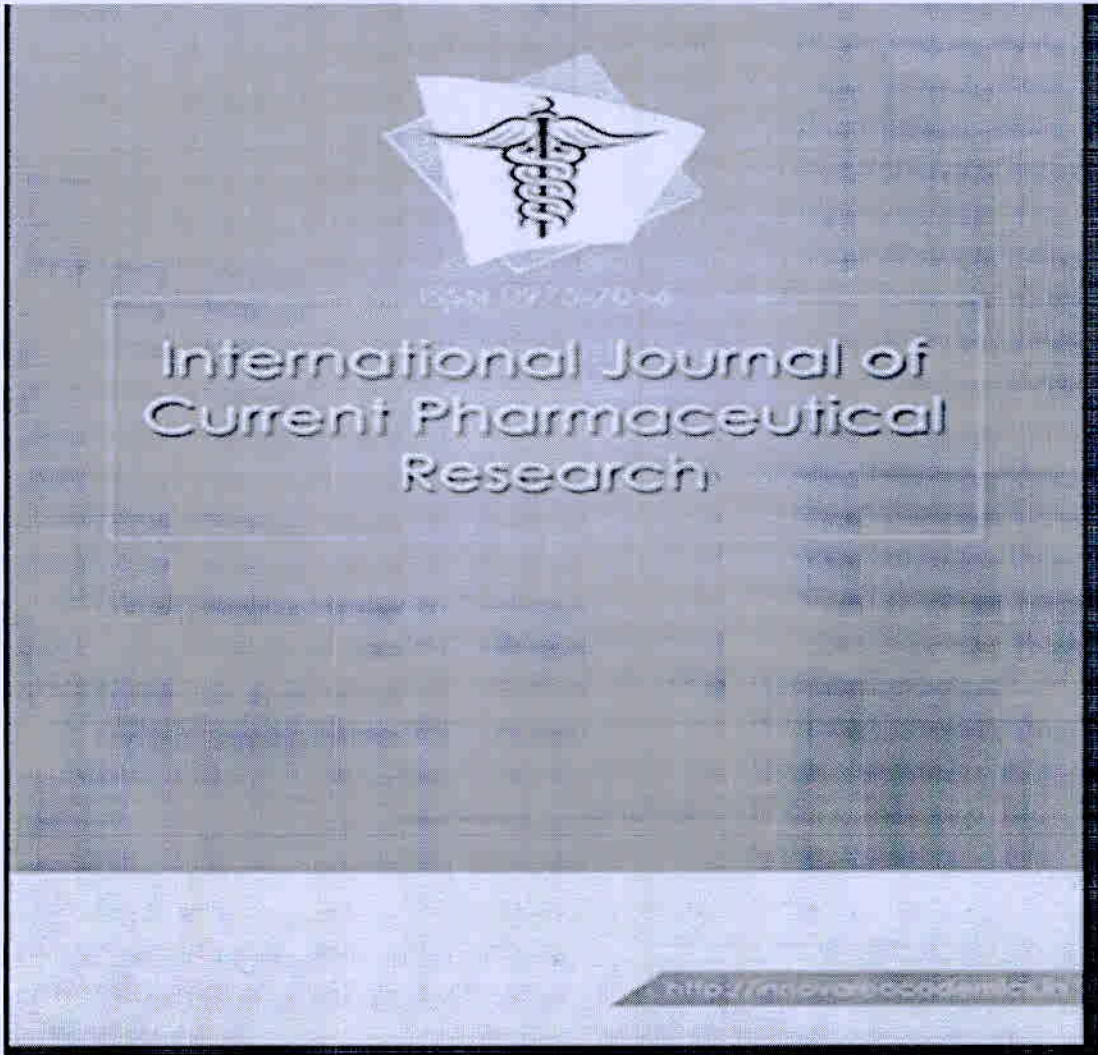
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Vol 12, Issue 2 (Mar-Apr), 2020

PUBLISHED: 15-03-2020



Online ISSN: 0975-7066

Peer Review

ORIGINAL ARTICLE(S)

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LISMAYATI, RICA TRI SEPTINDRA

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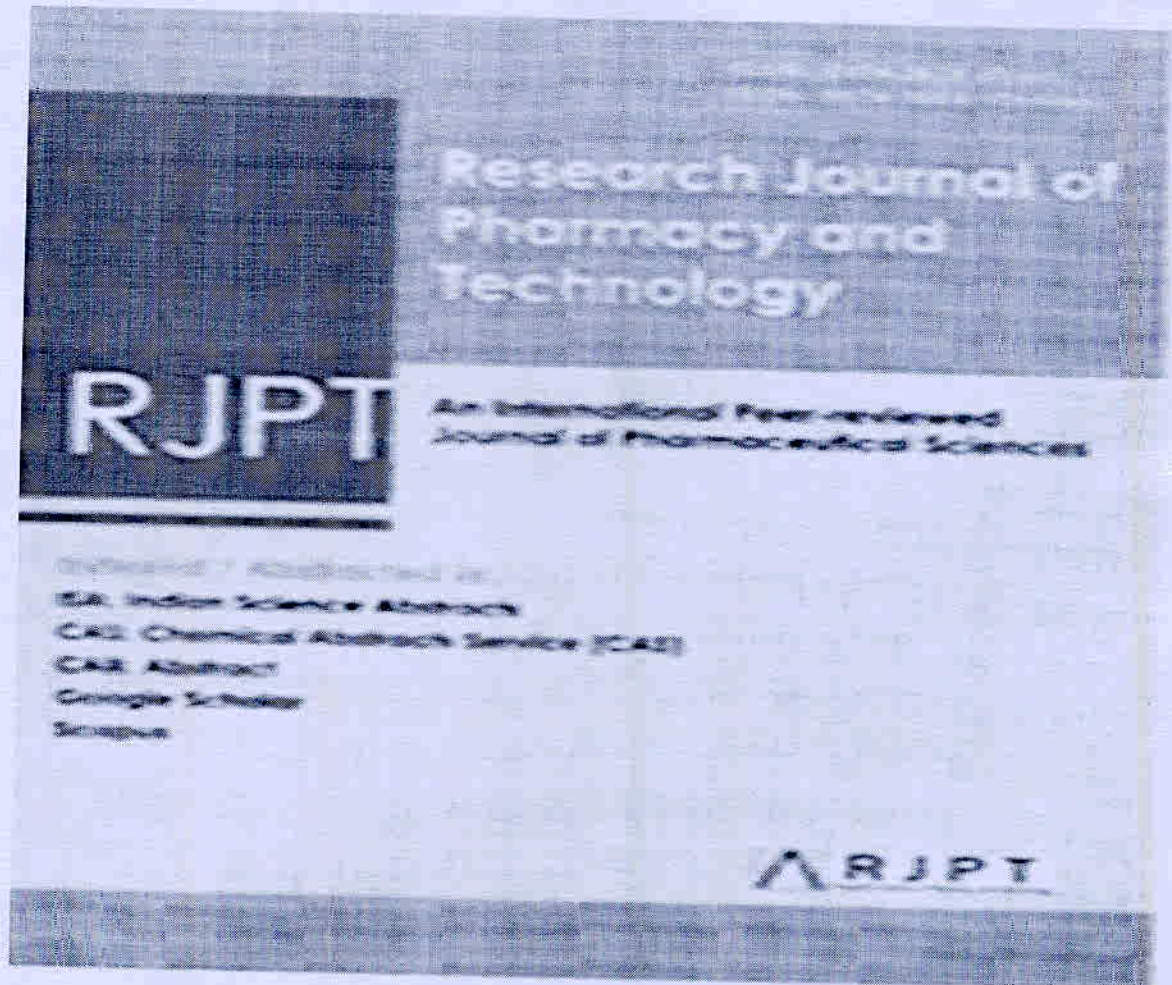
PRESCRIPTION ANALYSIS OF HYPERTENSIVE PATIENTS AND AWARENESS AMONG PHYSICIAN REGARDING ANTIHYPERTENSIVE DRUG  
PATIL P. J., PATIL V. S., BHORE P.

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# Awareness, Knowledge and Attitude about Antibiotics use among Society

Author(s): Patil PJ, Patil VS, Chavan RH

Email(s): respjpatil@gmail.com

DOI: 10.5958/0974-360X.2020.00909.9

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Department of Pharmacology, Marathwada Mitra Mandal's, College of Pharmacy, Thergaon, Pune-411 033.

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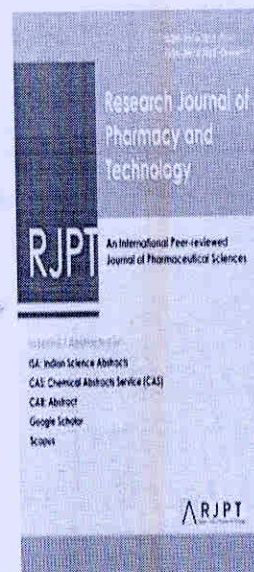
Published In: Volume - 13, Issue - 11, Year - 2020

**Keywords:** Antibiotics Resistance Rational use of Drugs Survey on antibiotic use Awareness  
Knowledge and Attitude regarding antibiotic use.



Cite this article:

Patil PJ, Patil VS, Chavan RH. Awareness, Knowledge and Attitude about Antibiotics use among Society. Research J. Pharm. and Tech. 2020; 13(11):5202-5206. doi: 10.5958/0974-360X.2020.00909.9



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| M. Ghanshyam <sup>1</sup> , M. Tejraj and R. Karik<br>Department of Industrial Pharmacy, Acharya and BM Reddy College of<br>Pharmacy, Shriharipuram, Bheemavaram, Karnataka, India<br>DOI: 10.13040/IJPSR.0975-8232.11(6)2976-75   | 2976-2975 |      |       |
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| M. A. Shivalkar <sup>1</sup> and P. N. Shroeg<br>Methyavada Usha Mandali's College of Pharmacy, Thergavai, Pune,<br>Maharashtra, India<br>DOI: 10.13040/IJPSR.0975-8232.11(6)2976-83   | 2976-2973 |      |       |
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## REVIEW ARTICLES

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|--|-------|------|-------|
| <p>1. AN OVERVIEW ON COVID-19 OUTBREAK: EPIDEMIC TO PANDEMIC</p> <p>COVID-19 is a disease caused by the novel coronavirus, which was initially called 2019-nCoV, subsequently termed as SARS-CoV-2 by the experts of the International Committee on Taxonomy of Viruses (ICTV) as it is exceptionally alike to the virus that caused the SARS outbreak in 2002 to 2003. World Health Organization already had declared COVID-19 as an international emergency as the disease is spore.</p> <p>A. Naikudekar, T. N. Mahale and S. A. A. Department of Pharmaceutical Sciences, Swami College of Pharmaceutical Education, Hubli, Medical Pharmacy, India.<br/>DOI: 10.33044/JPSP.0075-8232.11(5).1958-1960</p>  | 8442  | 1629 | 4     |
| <p>20. INVITRO ANTICHOLINESTERASE ACTIVITY OF PHYLLANTHUS EMBLICA AND TAMARINDUS INDICA</p> <p>Alzheimer's disease (AD) is a major type of dementia. AD is associated with memory impairment and cognitive deficit. It is characterized by low levels of acetylcholine in the brain of AD patients. The inhibition of acetylcholinesterase (AChE) has been one of the most used strategies for the management of mild to moderate AD. In the present study, n-hexane, ethyl acetate, and hydroalcoholic leaf...</p> <p>M. Perungudi, G. Rupa, K. S. L. Suresh, K. Aramali, M. V. Kumar and N. M. N. Pavan.<br/>Department of Pharmaceutical N.E.T, Pharmacy College, Raichur, Karnataka, India.<br/>DOI: 10.33044/JPSP.0075-8232.11(5).2156-60</p>   | 939   | 430  | 0     |
| <p>21. STABILITY INDICATING RP – HPLC METHOD DEVELOPMENT AND VALIDATION FOR SIMULTANEOUS ESTIMATION OF AMLODIPINE AND CHLORTHALIDONE IN BULK AND TABLET DOSAGE FORM</p> <p>The RP-HPLC stability-indicating assay method has been developed and validated for the estimation of the amlodipine and chlorthalidone in bulk and combined dosage form. The method was optimized by using the mobile phase as a mixture of 0.1% formic acid: methanol: acetonitrile in the ratio of (50:5:45 v/v) at pH 3 was adjusted with orthophosphoric acid. The method was carried out on the Octadecylsil...</p> <p>B. H. Sakpal* and A. R. Chabukwari<br/>Department of Pharmaceutical Chemistry, Marathwada Mitra Mandal's College of Pharmacy, Thergaon (Kalewadi), Pune, Maharashtra, India.<br/>DOI: 10.33044/JPSP.0075-8232.11(5).2161-68</p> | 1180  | 448  | 0     |
| <p>22. ANTIHYPERGLYCEMIC POTENTIAL OF TEAK SEEDS IN ALLOXAN INDUCED DIABETIC RATS</p> <p>Tectona grandis is famous as a valuable timber hold an extensive range of applications around the sphere. In addition to its enormous uses in the timber industry, all the parts are cherishing with extensive use in traditional medicine and possess significant pharmacological properties. In search of drugs for diabetes, the methanolic seed extract which is prepared by the Soxhlet apparatus, was used.</p> <p>A. V. Patil, N. L. Bhalerao*<br/>2169-2172</p>   | 618   | 443  | 0     |



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Review

**A State-of-the-art Review on Applications of Different Analytical Techniques for Some ACE Inhibitors >**

Sandip D. Firke, Komal R. Bhol, Kiran R. Patil, Shubham D. Jayswal, Avinashi R. Tekade & Shallesh S. Chalkwar

Pages: 66-79

Published online: 03 Apr 2020

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32 Views

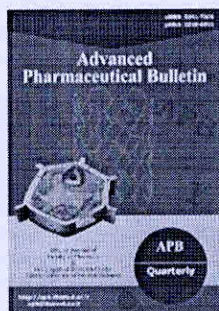
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### Editorial Article

## Microbial Alpha-Amylase Production: Progress, Challenges and Perspectives

Babak Elyasi Far<sup>1</sup>, Yassin Ahmadi, Ahmad Yari Khosroshahi, Azita Dilmaghani<sup>2</sup>

*Adv Pharm Bull.* 2020;10(3): 350-358. doi: 10.34172/apb.2020.043

PMCID: PMC7335993 PMID: 32665893 Scopus ID: 85078628004

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### Editorial Article

## A Review on Solid Dispersion and Carriers Used Therein for Solubility Enhancement of Poorly Water Soluble Drugs

Avinash Ramrao Tekade<sup>1</sup>, Jyoti Narayan Yadav<sup>2</sup>

*Adv Pharm Bull.* 2020;10(3): 359-369. doi: 10.34172/apb.2020.044

PMCID: PMC7335980 PMID: 32665894 Scopus ID: 85088613327

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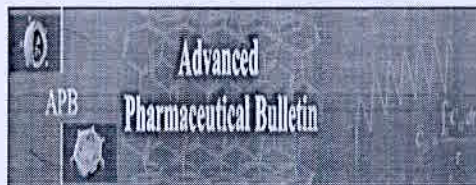
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Adv Pharm Bull. 2020 Jul; 10(3): 359-369.

PMCID: PMCID:32665984

Published online 2020 May 11. doi: 10.34172/apb.2020.044

PMID: 32665984

## A Review on Solid Dispersion and Carriers Used Therein for Solubility Enhancement of Poorly Water Soluble Drugs

Avinash Ramrao Tekade<sup>1</sup> and Jyoti Narayan Yadav

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A large number of hydrophilic and hydrophobic carriers in pharmaceutical excipients are available today which are used for formulation of solid dispersions. Depending on nature of carriers the immediate release solid dispersions and/or controlled release solid dispersions can be formulated. Initially crystalline carriers were used which are transformed into amorphous solid dispersions with enhanced properties. The carriers used previously were mostly synthetic one. Recent trend towards the use of natural carriers have replaced the use of synthetic carriers. This review is the overview of various synthetic, natural, semisynthetic, modified natural hydrophilic carriers used for formulation of solid dispersions.

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Enhanced solubility of piperine using hydrophilic carrier-based potent solid dispersion systems [Drug Dev Ind Pharm. 2017]

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## Bird's eye view on aquasome: Formulation and application

Sachin Jagdale<sup>a</sup>, Simran Karekar

<sup>a</sup>Department of Pharmaceutics, Marathwada Mitra Mandal's College of Pharmacy, Thergaon (Kalewadi), Pune, Maharashtra, 411033, India



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Aquasomes  
Composition  
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Applications

### ABSTRACT

Aquasomes are globe shaped (60–300 nm), three layered, self-assembled nanoparticulate drug delivery system. They contain an innermost solid nanocrystalline core coated with polyhydroxyl oligomer onto which biochemically active drug molecules are adsorbed. They are designed to accomplish successful delivery of bioactive agents as well to protect the conformational integrity. Its elevated degree of surface exposure is used in targeting bio-active molecules to specific sites. They can be used as a RBC substitutes, carrier for delivery of viral antigen and as a targeted system for intracellular gene therapy. The current review provides a bird eye view of the aquasome as a promising tool for drug delivery. It describes all the aspects of aquasomes including its composition, mechanism of formation, methods of preparation, its characterization and therapeutic applications as a drug delivery system. This review also furnishes useful information about aquasomes and how it shields and preserves the delicate biological molecules, its conformational integrity which makes it an attractive carrier system for drug delivery.



  
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## Development and Validation of Novel Analytical Method for Empagliflozin and Metformin Hydrochloride in Bulk and Pharmaceutical Dosage Form by Four Different Simultaneous Estimation Approaches using UV Spectroscopy

**Author(s):** Manojkumar K. Munde, Nilesh S. Kulkarni, Rahul H. Khiste, Dhanya B. Sen

DOI: 10.5958/0974-360X.2020.00228.0

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# Development and Validation of Novel Analytical Method for Empagliflozin and Metformin Hydrochloride in Bulk and Pharmaceutical Dosage Form by Four Different Simultaneous Estimation Approaches using UV Spectroscopy

Author(s): Manojkumar K. Munde, Nilesh S. Kulkarni, Rahul H. Khiste, Dhanya B. Sen

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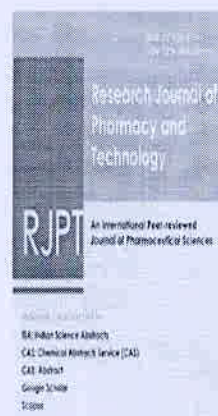
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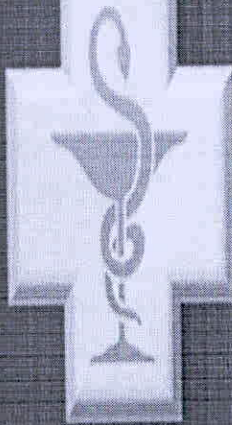


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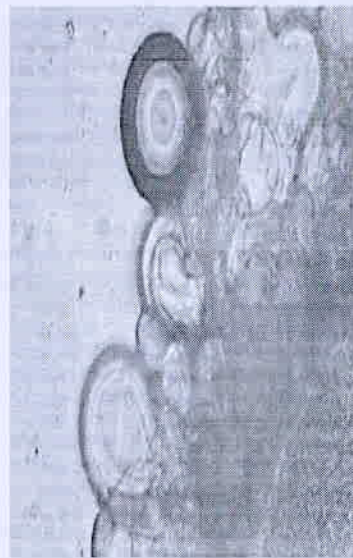
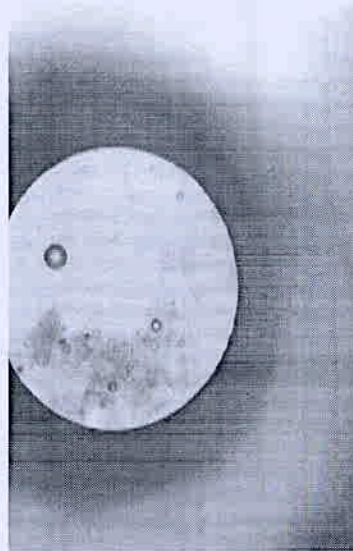


  
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Published on December 2020

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Original Article | doi:10.5530/ijper.54.4.212

## Development of Validated Stability-indicating RP-HPLC Method for Determination of Novel Directly Acting Antiviral agent and Characterization of its Degradants by LC-ESI-MS

Authors and affiliation (s):

**Babita Agarwal<sup>1\*</sup>, Santosh Gandhi<sup>2</sup>**

<sup>1</sup>Department of Pharmaceutical Chemistry, Marathwada Mitra Mandal's College of Pharmacy, Pune, Maharashtra, INDIA.

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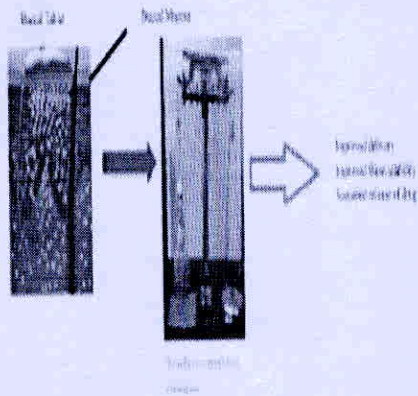


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## Enhancement of Dissolution of Fenofibrate Using Complexation with Hydroxy Propyl $\beta$ -Cyclodextrin

Sachin K. JAGDALE<sup>1,1</sup>, Mohammad H. DEGHAN<sup>2</sup> and Nilesh S. PAUL<sup>3</sup>

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Ali Salah Khedr and Mohamed Khaled Elkazaz\*

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Sara Askaoui\*, Guizlane El Mghari, Nawal El Ansari and Hanane Raiss

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Sagar Atmaram Aher and Avinash Ramrao Tekade\*

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Volume 4 Issue 2 - November 2019  
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Theranostics Brain, Spine & Neural Disord

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# Transnasal Delivery of Fluoxetine HCL to Brain for Treating Depression



Sagar Atmaram Aher and Avinash Ramrao Tekade\*

Department of Pharmaceutics and Pharmaceutical QA, Marathwada Mitra Mandal's College of Pharmacy, India

Submission: September 17, 2019; Published: November 15, 2019

\*Corresponding author: Avinash R Tekade, Department of Pharmaceutics and Pharmaceutical QA, Marathwada Mitra Mandal's College of Pharmacy, Thergaon, Pune, Maharashtra 411033, India

## Abstract

The objective of this study is to formulate a mucoadhesive microemulsion containing Fluoxetine HCl as antidepressant and Cedar oil as penetration enhancer. Water titration method was used to formulate the microemulsion using two different ratios of selected surfactant and cosurfactant (Tween 80 and Propylene Glycol). The prepared microemulsion showed mean globule size of 303.84nm. The prepared microemulsion is non-irritant for nasal mucosa which was confirmed by ciliotoxicity study using sheep nasal mucosa. It is clearly evident from *ex vivo* diffusion study that mucoadhesive microemulsion can deliver drug for longer time, the initial release was burst release in the first hour followed by sustained for next three hours, and increased diffusion will definitely help in reducing dose related side effects associated with the Fluoxetine HCl. Thus, present study concluded that the prepared microemulsion containing Fluoxetine HCl have potential to deliver the drug efficiently to the brain by nasal administration.

Keywords: Transnasal delivery, Depression, Fluoxetine Hcl, Brain



  
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Dr Ranil H Khiste

VOL. 10 NO. 01 2018 INTERNATIONAL JOURNAL OF PHARMACEUTICAL & BIOLOGICAL ARCHIVE  
DOI:10.21871/ijpba.1001.014  
SUBMITTED: AUG 8 2018  
PUBLISHED: AUG 9 2018

#### Abstract

Two simple spectrophotometric methods were developed and validated for the determination of ranolazine hydrochloride in the presence of its base-induced degradation product, namely simultaneous equation method using two wavelengths of 232 and 249 nm method (A) and area under the curve method using two wavelength ranges of 267-277 nm and 244-254 nm method (B). The accuracy, precision, and linearity ranges of the planned methods were firm. The methods were validated and the specificity was assessed by analyzing synthetic mixtures containing the drug and its degradant. The two methods were useful for the determination of the cited drug in its pharmaceutical preparation and the obtained results were statistically compared with those of a reported method. The comparison shows that there is no important difference between the proposed methods and the reported method about both accuracy and precision.



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**Research Article**

**Synthesis, Characterization and Biological Screening of Substituted Indoledihydro-pyrimidine derivatives.**

**Ganesh S. Mhaske<sup>1\*</sup>, Rahul H. Khiste<sup>1</sup>, Surekha A. Shinde<sup>1</sup>, Sagar A. Jadhav<sup>2</sup>**

<sup>1</sup>Marathwada Mitra Mandal's College of Pharmacy, Thergaon, Pune-411033, Maharashtra, India.

<sup>2</sup>Dr. Shivajirao Kadam College of Pharmacy, Kasbe Digraj, Sangli-416416, Maharashtra, India.

Received 16 April 2019; received in revised form 03 June 2019; accepted 08 June 2019

\*Corresponding author E-mail address: [hariomganesh79@gmail.com](mailto:hariomganesh79@gmail.com)

**ABSTRACT**

A series of Schiff bases of N-Substituted-4-(1H-indol-3-yl)-6-methyl-2-oxo-1,2,3,4-



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### A MODERN APPROACH IN ANTICANCER THERAPY USING ADEPT: AN OVERVIEW

Smitha Gandra<sup>1\*</sup>, Shweta Nagpurkar<sup>1</sup>, Shubham Pawar<sup>1</sup>

<sup>1\*</sup>Department of Pharmaceutics, Marathwada Mitra Mandal's College of Pharmacy, Thergaon, Pune, Maharashtra, India.

#### ABSTRACT

Anticancer drugs selectivity is improved by strategy called Antibody-directed enzyme prodrug therapy. It is a two-step process which benefits over radioimmunoconjugate, chemo-toxin etc. The main functions of Antibody-directed enzyme prodrug therapy are prodrug activation by enzyme and targets cancer cells by the conjugates and selectivity characteristics of prodrug/drugs/enzymes are reviewed. Generation of cytotoxic agents at tumor sites by antibody vectored enzyme from non-toxic pro-drugs. The traditional approach improves the properties of prodrugs which include solubility, permeability, stability, distribution etc. but this therapy improves selectivity. The activation of prodrugs is mainly governed by enzymes that are at higher amounts in tumors, which leads to selective antitumor activity.

#### KEYWORDS

ADEPT, Targeting, Enzymes, Prodrug, Antibody-enzyme conjugates and Tumor therapy.

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#### INTRODUCTION







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*Research Article*

**RP-HPLC and UV-Spectrophotometric Methods Development and Validation for Simultaneous Estimation of Teneligliptin and Metformin in Fixed Dose Combination.**

**Anuruddha Chabukwar<sup>1</sup>, Pramod Sakpal<sup>2\*</sup>**

<sup>1</sup>School of Pharmacy, Dr. Vishwanath Karad MIT World Peace University, Kothrud, Pune – 411038, Maharashtra, India.

<sup>2</sup>Department of Pharmaceutical Chemistry, Marathwada Mitra Mandal's College of Pharmacy, Thergaon, Pune – 411033, Maharashtra, India.

Received 09 May 2019; received in revised form 02 June 2019; accepted 02 June 2019

\*Corresponding author E-mail address: [psakpal18@gmail.com](mailto:psakpal18@gmail.com)



A handwritten signature in blue ink, appearing to read "Anuruddha Chabukwar".

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Title	Views	PDF	Cited
<p>1. CUBIC LIQUID CRYSTALLINE NANOPARTICLES (CUBOSOMES): A NOVEL CARRIER FOR DRUG DELIVERY</p> <p>Lytotropic liquid crystalline systems, such as reversed bicontinuous cubic phases acquire progressive attention because of their unique microstructure and physicochemical properties. Cubosomes were nanostructured liquid crystalline particles, formed from a certain group amphiphilic lipids in definite proportions in water and was stabilized with a triblock copolymer. Substances in use were biocompat...</p> <p>B. A. Moly* and N. L. Prasadini Acharya Nagaswami University, Guntur, Andhra Pradesh, India DOI: 10.13040/IJPSR.0975-8232.10(3).973-84</p> <p>973-984</p> <p><a href="#">Abstract</a>   <a href="#">HTML Full Text</a>   <a href="#">PDF</a>   <a href="#">Citation</a></p>	4941	1614	6
<p>40. DEVELOPMENT AND VALIDATION OF A HPLC ANALYTICAL METHOD FOR DETERMINATION OF ELLAGIC ACID IN EPILOBIUM ANGUSTIFOLIUM EXTRACT</p> <p>Development of quality assessment parameters for natural products is a prominence necessity to justify their acceptability and activity. Establishment of authentic and reliable analytical methods which profile the quantitative phytochemical composition of marker constituents in multi-component composition like extract is a challenging task. A simple, rapid, precise, and reliable HPLC method was dev...</p> <p>P. V. Kadam*, K. N. Yadav, C. L. Bhingare and M. J. Patil Marathwada Mitra Mandali's College of Pharmacy, Thergaon, Kalewadi, Pune, Maharashtra, India DOI: 10.13040/IJPSR.0975-8232.10(3).1300-09</p> <p>1300-1306</p> <p><a href="#">Abstract</a>   <a href="#">HTML Full Text</a>   <a href="#">PDF</a>   <a href="#">Citation</a></p>	2171	724	2
<p>41. PRODUCTION OF XYLANASE BY PENICILLIUM SP. AND ITS BIOBLEACHING EFFICIENCY IN PAPER AND PULP INDUSTRY</p> <p>The main objective of this study is to evaluate the ability of production of xylanase by a fungal strain Penicillium sp. isolated from decaying wood. Xylanases are hydrolytic enzymes produced by many microorganisms which catalyze the hydrolysis of xylan polymer to xylose monomer. The xylanase production was carried out under submerged fermentation xylose as the main substrate, and the enzyme yield...</p> <p>A. Sindevi*, G. Narasimha and P. S. Devi Department of Applied Microbiology, Sri Padmavati Mahila University, Tirupat, Andhra Pradesh, India DOI: 10.13040/IJPSR.0975-8232.10(3).1307-11</p> <p>1307-1311</p> <p><a href="#">Abstract</a>   <a href="#">HTML Full Text</a>   <a href="#">PDF</a>   <a href="#">Citation</a></p>	2142	858	4



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Received on 26 June 2018; received in revised form, 31 August 2018; accepted, 06 September 2018; published 01 March 2019

## DEVELOPMENT AND VALIDATION OF A HPLC ANALYTICAL METHOD FOR DETERMINATION OF ELLAGIC ACID IN *EPILOBIUM ANGUSTIFOLIUM* EXTRACT

P. V. Kadam<sup>\*</sup>, K. N. Yadav, C. L. Bhingare and M. J. Patil

Marathwada Mitramandal's College of Pharmacy, Thergaon, Kalewadi, Pune - 411033, Maharashtra, India.

### Keywords:

Canadian willow herb extract,  
HPLC, Validation, Quality control

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**ABSTRACT:** Development of quality assessment parameters for natural products is a prominence necessity to justify their acceptability and activity. Establishment of authentic and reliable analytical methods which profile the quantitative phytochemical composition of marker constituents in multicomponent composition like extract is a challenging task. A simple, rapid, precise, and reliable HPLC method was developed for the separation and estimation of ellagic acid from *Epilobium angustifolium* (Canadian willow herb) extract. The estimation was carried out using Sunfire C18 column, 5 $\mu$  (4.6  $\times$  250 mm); mobile phase consisting of 0.1% orthophosphoric acid and acetonitrile; the flow rate of 1 mL/min and ultraviolet detection at 280 nm with a properly resolved having run time of 35 min. The method was validated as a final verification of method development concerning precision, linearity, accuracy, ruggedness, and robustness. The correlation coefficient ( $r^2$ ) > 0.999, a method is considered to



  
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<p>34. ANTI-ATHEROSCLEROTIC BIOACTIVE COMPOUND FROM A MARINE MOLLUSC, CHIOCREUS SP</p> <p>This study reports the potential of a marine mollusk, <i>Chiocreus</i> sp., as a producer of peroxisome proliferator activated receptor-gamma (PPAR-γ) ligand that activate the scavenger receptor class B type 1 (SR-B1) for anti-atherosclerotic activity. The objective of this study is to determine the cytotoxicity of the obtained compound C35, with a molecular weight of 270.1 and the level of SR-B1 expres...</p> <p>N. M. Sarizan, F. Mohamad, N. Ismail*, L. Abu-Bakar and T. S. T. Muhammad Institute of Marine Biotechnology, Universiti Malaysia Terengganu, Kuala Nerus, Terengganu, Malaysia. DOI: 10.13040/IJPSR.0975-8232.10(3).1259-82</p> <p>1259-1262</p> <p><a href="#">Abstract</a>   <a href="#">HTML Full Text</a>   <a href="#">PDF</a>   <a href="#">Citation</a></p>	1600	510	0
<p>35. <b>QUALITY ASSESSMENT OF VRANROPAN TAILA: AN AYURVEDIC SIDDHA TAILA FOR WOUND HEALING AND ANTI-MARK PROPERTY</b></p> <p>Standardization can create trust and confidence in the products and increase market relevance. It is an essential requirement for the open exchange of information; without it, the network will simply not work. The practitioner, as well as the consumer, now seeks assurance from the manufacturer about the quality, safety, and efficacy of a readymade Herold supplement or Ayurvedic formulations. An av...</p> <p>R. N. Yadav*, P. Y. Kadath, G. L. Bhingare and M. J. Patil Marathwada Mitra Mandals College of Pharmacy, Kalewadi, Pune, Maharashtra, India. DOI: 10.13040/IJPSR.0975-8232.10(3).1263-68</p> <p>1259-1262</p> <p><a href="#">Abstract</a>   <a href="#">HTML Full Text</a>   <a href="#">PDF</a>   <a href="#">Citation</a></p>	3884	654	0
<p>36. QUANTITATIVE ESTIMATION OF TOTAL PHENOLIC CONTENT OF TWO SPECIES OF PORTULACA OBTAINED BY USING MICROWAVE ASSISTED EXTRACTION AND ITS VALIDATION</p> <p><i>Portulaca oleracea</i> and <i>Portulaca quadrifida</i> have been used traditionally have been used for their pharmacological properties and consumed as a part of the diet. Anti-oxidative property of phytochemicals might play a role in their observed benefits, and phenolic compounds are known to be the major contributors towards the anti-oxidant property of phytochemicals. The objective of this study was to q...</p>	1336	532	0



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23.	<p><b>ANTI-DIABETIC POTENTIAL OF ABELMOSCHUS ESCULENTUS LINN. IN ALLOXAN-INDUCED DIABETIC RATS</b></p> <p>Abelmoschus esculentus Linn. (Malvaceae) is described in medicine for the treatment of diabetes mellitus. The monech seeds of Abelmoschus esculentus having potential in the development of a drug for diabetes due to their anti-diabetic activity. The hypoglycemic effect of the extract was tested in normal, glucose loading and alloxan-induced diabetic rats. Aqueous and ethanolic extracts (250 and 500 ...</p> <p>N. Jyoti, P. Jan and S. K. Jee Sagar Institute of Research, Technology &amp; Science-Pharmacy, Ghogaal, Madhya Pradesh, India DOI: 10.13040/IJPSR.0975-8232.10.3.1183-25</p>	2052	817	0
24.	<p><b>STUDY OF FORCED DEGRADATION BEHAVIOUR OF A NOVEL PROTEASOME-INHIBITING ANTICANCER DRUG BY LC-MS AND DEVELOPMENT OF A VALIDATED STABILITY-INDICATING ASSAY METHOD</b></p> <p>In the present study, comprehensive stress testing of Carfilzomib, a newly approved proteasome-inhibiting anticancer drug was carried out according to ICH guideline Q1A (R2). The drug was subjected to acid (0.1N HCl), neutral and alkaline (0.1N NaOH) hydrolytic conditions at 70 °C, as well as to oxidative decomposition at room temperature. Photolysis was carried out in 0.1N HCl, water and 0.1N Na...</p> <p>B. A. Aggarwal * and S. V. Ganthi Department of Pharmaceutical Chemistry, A.T.S.S.M.S College of Pharmacy, Egga, Maharashtra, India DOI: 10.13040/IJPSR.0975-8232.10.3.1183-93</p>	1893	693	1
25.	<p><b>IDENTIFICATION OF ACTIVE PHARMACEUTICALS OF SIDA ACUTA BURM. F. LEAVES USING GC-MS AND HPTLC FINGERPRINTING</b></p> <p>Sida acuta is one of the medically active plants used for the treatment of multifaceted diseases. However, an elaborated investigation on the phytochemical composition of the ethanolic extract of the leaves of this plant is yet to be deciphered. So, in this quantification of phytochemicals, in-vitro free radical scavenging activity, enzymatic and non-enzymatic antioxidant levels in the fresh leave</p>	3588	1006	4



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## Solubilization and determination of solution thermodynamic properties of itraconazole in different solvents at different temperatures

Sachin K. Jagdale & Rajesh B. Nawale

Pages 1166-1180 | Received 13 Oct 2018; Accepted 26 Mar 2019; Accepted author version posted online 02 Apr 2019; Published online 01 May 2019

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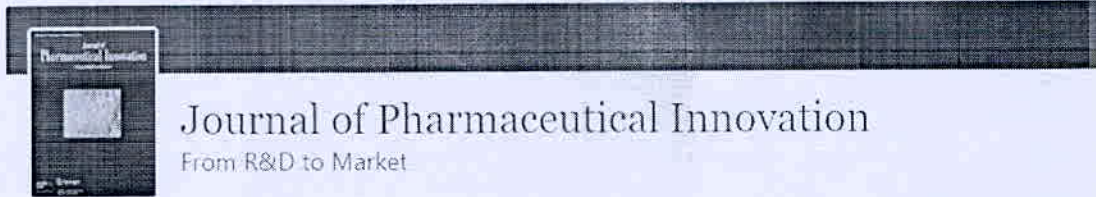
### Design and development of bioinspired calcium phosphate nanoparticles of MTX: pharmacodynamic and pharmacokinetic evaluation >

Chaitra Dandekar, Anika Mahesh, Milani Kulkarni, Dakshin Isikar, Akhmad, Anita Kamra, Karma R.

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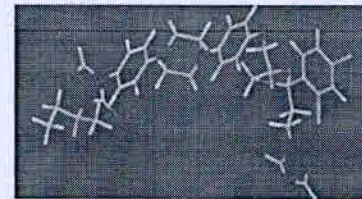
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17 articles in this issue

Estimation and Correlation of Solubility of Practically Insoluble Drug Itraconazole in 1,4-Butanediol + Water Mixtures Using Extended Hildebrand Solubility Approach

Sachin K. Jagdale & Rajesh B. Nawale

Original Article Published: 13 March 2019 Pages: 344 - 356



  
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## Estimation and Correlation of Solubility of Practically Insoluble Drug Itraconazole in 1,4-Butanediol + Water Mixtures Using Extended Hildebrand Solubility Approach

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## Phytochemical and Pharmacognostical Evaluation of Milky Mangrove Excoecaria agallocha Linn

**Author(s):** M. K. Shelar, M. J. Patil, S. S. Bhujbal

DOI: 10.5958/0974-360X.2019.00216.6

Views: 77 (pdf), 943 (html)

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Cite: M. K. Shelar, M. J. Patil, S. S. Bhujbal. Phytochemical and Pharmacognostical Evaluation of Milky Mangrove Excoecaria agallocha Linn, *Research J. Pharm. and Tech.* 2019; 12(3): 1289-1293. doi: 10.5958/0974-360X.2019.00216.6

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Author(s): M. K. Shelar, M. J. Patil, S. S. Bhujbal

Email(s): marutishelar@rediffmail.com

DOI: 10.5958/0974-360X.2019.00216.6

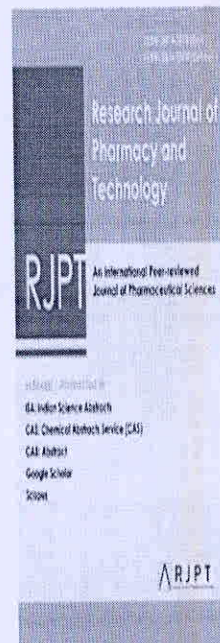
Address: M. K. Shelar<sup>1</sup>, M. J. Patil<sup>2</sup>, S. S. Bhujbal<sup>1</sup>

<sup>1</sup>Dr. D. Y. Patil Institute of Pharmaceutical Sciences and Research, Pimpri, Pune-411018, (MS), India

<sup>2</sup>Marathwada Mitra Mandal's College of Pharmacy, Thergaon, Pune - 411033, (MS) India.

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B. M. Gupta, K. K. Mueen Ahmed, Ritu Gupta

Pharmacognosy Journal, 10(6):1067-1075  
 DOI: 10.5530/pj.2018.6.190  
 Published: Wed 26-Sep-2018

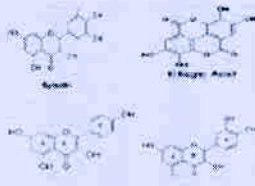
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Prasad Kadam, Manohar Patil, Kavita Yadav

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Pages: 264-273

Published online: 26 Jan 2019

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## Nanostructured cubosomes in an *in situ* nasal gel system: an alternative approach for the controlled delivery of donepezil HCl to brain

Rahul P. Patil, Devlya D. Pawara, Chetan S. Gudewar & Avinash R. Tekade

Pages: 264-273 | Received 09 May 2018, Accepted 21 Nov 2018, Accepted author version posted online: 02 Dec 2018, Published online: 28 Jan 2019

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26. DESIGN, DEVELOPMENT AND CHARACTERIZATION OF SELF MICRO EMULSIFYING DRUG DELIVERY SYSTEM FOR ACECLOFENAC Self-microemulsifying drug delivery system (SMEDDS) of Aceclofenac (ACE) was aimed at overcoming the problems of poor solubility. ACE is practically insoluble in water as a result it shows erratic oral absorption and affects the bioavailability. The formulation strategy included selection of oil phase based on saturated solubility studies and surfactant and co-surfactant screening on the basis of ... M. P. Ratnabakshi, T. and P. D. Chaudhari 3815-3826 Department of Pharmaceutics, Marathwada Mitra Mandal's College of Pharmacy, Thergaon, Pune, Maharashtra, India. DOI: 10.13040/IJPSR.0975-8232.9(9)3815-26	2328	850	1
27. FORMULATION DEVELOPMENT AND EVALUATION OF CANDESARTAN BUCCAL TABLETS Buccal tablets are prepared by direct compression method using different polymers like carboxyl, hydroxypropyl methylcellulose and sodium alginate. Nine formulations were prepared while (F1) to (F3) were prepared by taking individual concentrations whereas all the remaining formulations were prepared by taking combinations of polymers. Aim of study is to develop and optimize mucoadhesive buccal ta... B. Padma, S. R. S. and R. Raju 3827-3832 Department of Pharmaceutics, Vaagdevi Institute of Pharmaceutical Sciences, Kamthagal, Telangana, India. DOI: 10.13040/IJPSR.0975-8232.9(9)3827-32	1803	704	0



*M. P. Ratnabakshi*  
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### Abstract

#### FORMULATION AND EVALUATION OF ATENOLOL AND HYDROCHLOROTHIAZIDE BILAYERED TABLET

Chandrashekhar L. Bhingare\*, Yatin N. Dholariya, Yogesh B. Bansod, Arti J. Wable, Ajinath E. Shirsat, Suhas V. Joshi  
Marathwada Mitra Mandal's, College of Pharmacy, Thergaon (Kalewadi), Pune-33, India.

#### ABSTRACT

The aim of present study is to develop a bilayered tablet for management of hypertension using Hydrochlorothiazide and Atenolol. The bilayered tablets gives biphasic drug release like loading dose of HCTZ and maintenance dose of Atenolol. The bilayered tablets are prepared using croscarmellose sodium as superdisintegrant for immediate released layer and different viscosity grades of hydrophilic polymers for sustained released layer, prepared tablets are evaluated for their physico-chemical properties. In this study, formulation (A6) made up from 10% CCS, and formulation (B6) made up from intragranulation techniques and 30mg blend of polymers releases the total drug content at the end of the 60 minutes and 12 hrs respectively. The release data obtained from the dissolution study of bilayered tablets are analyzed with respect to zero order, first order, Higuchi, Korsmeyer-Peppas models and release kinetic is fitted to Korsmeyer-peppas equation. The mechanism of drug release was regarded as anomalous diffusion of drug from matrix. The optimized formulation fulfilled many requirements such as easy to fabricate and high patient compliance.

**Keywords:** Bilayered tablets, Hydrochlorothiazide, Atenolol, CCS, Hydrophilic polymers.

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1	<b>Quality assessment of <i>Syzygium aromaticum</i>: A pharmacognostic and phytochemical approach</b> Kavita N Yadav, Prasad V Kadam, Chandrashekhar L Bhingare and Manohar J Patil [ABSTRACT] [DOWNLOAD] Pages: 720-724   539 Views 182 Downloads	India
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P-ISSN: 2349-8234

CODEN Code: JPPPHO

Journal of Pharmacognosy and Phytochemistry

Vol. 7, Issue 5 (2018)

## Quality assessment of *Syzygium aromaticum*: A pharmacognostic and phytochemical approach

Author(s):


Kavita N Yadav, Prasad V Kadam, Chandrashekhar L Bhingare and Manohar J Patil

Abstract:

Since from ancient time human beings are taking help of plants as a medicine, although most of these applications are anarchic. The worldwide herbal resources have a great potential as drug and are of great commercial importance. This use of herbal product has also given rise to various forms of abuse and adulteration of the products leading to patient's dissatisfaction and in some instances fatal consequences. They are very often obtained and processed without any scientific evaluation and launched onto the market without any safety and toxicology studies. There is a need to development of good quality assurance and standardization of herbal medicines and products. On that basis, an attempt was made on well-known herbal drug *Syzygium aromaticum* flower buds by evaluation of pharmacognostic, phytochemical and toxicological parameters like heavy metals, aflatoxins, total microbial load and pesticide residues.

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E-ISSN: 2278-4136  
P-ISSN: 2349-8234  
JPP 2018; 7(5): 720-724  
Received: 08-07-2018  
Accepted: 09-08-2018

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## Quality assessment of *Syzygium aromaticum*: A pharmacognostic and phytochemical approach

**Kavita N Yadav, Prasad V Kadam, Chandrashekhar L Bhingare and Manohar J Patil**

### Abstract

Since from ancient time human beings are taking help of plants as a medicine, although most of these applications are anarchic. The worldwide herbal resources have a great potential as drug and are of great commercial importance. This use of herbal product has also given rise to various forms of abuse and adulteration of the products leading to patient's dissatisfaction and in some instances fatal consequences. They are very often obtained and processed without any scientific evaluation and launched onto the market without any safety and toxicology studies. There is a need to development of good quality assurance and standardization of herbal medicines and products. On that basis, an attempt was made on well-known herbal drug *Syzygium aromaticum* flower buds by evaluation of pharmacognostic, phytochemical and toxicological parameters like heavy metals, aflatoxins, total microbial load and pesticide residues.

**Keywords:** Pharmacognostic evaluation, *Syzygium aromaticum*, standardization, quality control



  
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## Editorial

### CHALLENGES FOR GENERIC DRUG PRODUCERS

PAGE 5-6

In the fiercely competitive global market for generic drugs, the complexities and interconnectivities come to the fore when a drug is recalled. In recent months, as you may be aware, the sartans (also known as AT1 receptor antagonists, angiotensin II receptor blockers/antagonists) have come into

Dr. Nagaraj N. Rao

## Review Article

### AMALGAMATION OF AYURVEDIC CONCEPT WITH MODERN MEDICAL PRACTICE TO MANAGE KIDNEY STONE DISEASE (UROLITHIASIS): AN ABBREVIATED REVIEW

PAGE 7-18

An age-old syndrome which possesses not only multifactorial etiological origins but also often associated with high rate of remission-rebound frequency during its management time is kidney stone (termed as urolithiasis). In Ayurveda, this syndrome is called as *mutrakricchra* and it is one...

Baghel D. S.<sup>a</sup>, Chopra S.<sup>b</sup>, Bhatia A.<sup>b</sup> and Tamilvanan S.<sup>a,c\*</sup>

### DESIGN, SYNTHESIS, ANTIBACTERIAL AND ANTICANCER ACTIVITY OF 4-HYDROXY-3-(2-SUBSTITUTED-2-THIOXOETHYL)-1-PHENYL/ METHYLQUINOLIN-2(1H)-ONE DERIVATIVES

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A series of title compounds, 4-hydroxy-3-(2-substituted-2-thioxoethyl)-1-phenyl/methylquinolin-2(1H)-ones were synthesized and purity of the compounds was ascertained by TLC. The structures of the synthesized compounds were characterized by IR, NMR (<sup>1</sup>HNMR and <sup>13</sup>CNMR) and ma...

Karmali H. A.<sup>a</sup>, Mamle Desai S. N.<sup>a\*</sup>, Shingade S. G.<sup>a</sup>, Palkar M. B.<sup>b</sup> and Biradar B. S.<sup>c</sup>

### NEW AROMATIC ALCOHOL, BENZOYL GLYCOSIDIC ESTER AND ANTHRAQUINONE DERIVATIVE FROM THE AERIAL PARTS OF PHYLLANTHUS FRATERNUS WEBSTER

PAGE 40-44

*Phyllanthus fraternus* Webster (Euphorbiaceae) is used in Indian traditional systems of medicine to treat diabetes, influenza, dyspepsia, indigestion, dysentery, jaundice, kidney stones, urinary tract diseases, vaginitis and skin eruptions. Phytochemical investigation of a methanolic extr...

Abuzer A.<sup>a,b</sup>, Jameel M.<sup>a,c</sup> and Ali M.<sup>a\*</sup>

### POTENTIAL OF RP-HPLC-DAD-MS FOR THE QUALITATIVE AND QUANTITATIVE ANALYSIS OF DAPAGLIFLOZIN IN TABLETS AND DEGRADANTS

PAGE 45-49

Dapagliflozin is a new drug of the gliflozin class which inhibits subtype 2 of the sodium-glucose transport proteins (SGLT2). It is a recent drug in the market and the generic market may soon get flooded with it. Therefore, newer methods are required to control dapagliflozin in pharmaceuticals. I...

Agarwal B.<sup>a\*</sup> and Gandhi S.<sup>b</sup>

### DEVELOPMENT AND VALIDATION OF A UV SPECTROPHOTOMETRIC Q-ABSORBANCE RATIO METHOD FOR SIMULTANEOUS ESTIMATION OF EPERISONE HYDROCHLORIDE AND ACECLOFENAC IN BULK AND TABLET DOSAGE FORM

PAGE 50-56

A simple, sensitive, rapid, accurate, precise and economical Q-absorbance ratio method has been developed for the



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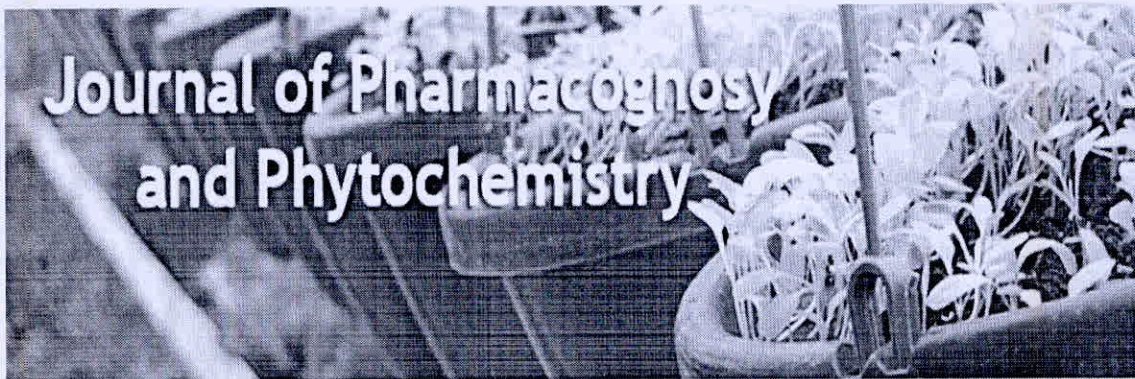
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| <p>30 EFFECT OF METHYL PARATHION (AN ORGANOPHOSPHATE) ON BIOCHEMICAL CONTENTS OF FRESH WATER CAT FISH HETEROPNEUSTES FOSSILIS (BLOCH)</p> <p>The present work was planned to study the effect of methyl parathion an organophosphate compound (OP) on biochemical contents of fresh water cat fish <i>Heteropneustes fossilis</i>. The exposure of fish to the sub-lethal concentrations of the toxicant methyl parathion was investigated and the variations were observed in biochemical contents in different tissues of the fish i.e. gill, liver, intestine, mu...</p> <p>T. B. Rao, K. Thirugopal and Y. Venkatesh*<br/> <i>Department of Zoology, Maharashtra University, Warananagar, Maharashtra, India</i><br/>           DOI: 10.13040/IJPSR.0975-8232.9(7).2669-74</p>                                       | 2111  | 650  | 0     |
| <p>31 DESIGN OF EXPERIMENT IN THE BIO-ANALYTICAL DETERMINATION OF QUETIAPINE FUMARATE IN HUMAN PLASMA BY A RP-HPLC METHOD</p> <p>A new, simple, sensitive, accurate and precise RP-HPLC method was developed for the estimation of quetiapine fumarate in human plasma. Full factorial design was used for the optimization of an extraction method. The main effect of volume of deproteinizing agent, speed of centrifugation, time of centrifugation and temperature of centrifugation was found to be significant at <math>P &lt; 0.0001</math> on all the r...</p> <p>S. D. Dole*, R. K. Nanda and S. S. Ghilange<br/> <i>Department of Pharmaceutical Chemistry, Marathwada Maramandal's College of Pharmacy, Kalewadi, Pune, Maharashtra, India</i><br/>           DOI: 10.13040/IJPSR.0975-8232.9(7).2675-32</p> | 2214  | 656  | 2     |
| <p>32 EXTRACTION AND CHARACTERISATION OF MUCILAGE FROM THE LEAVES OF HIBISCUS ROSA-SINENSIS LINN. (MALVACEAE)</p> <p>Plant mucilages have found wide application in food, pharmaceutical and cosmetic industries. Hence, it would be worthwhile to characterise the physical and chemical attributes of mucilages from commonly available plants for their beneficial utilization. <i>Hibiscus rosa-sinensis</i> Linn. (Family Malvaceae), widely grown as an ornamental throughout the tropics and subtropics is a good source of mucilage.</p>   | 9398  | 1426 | 15    |



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## Journal of Pharmacognosy and Phytochemistry

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S. No.	Title and Authors Name	Country
1	Standardization and quantification of curcumin from <i>Curcuma longa</i> extract using UV visible spectroscopy and HPLC Prasad V Kadam, Kavita N Yadav, Chandrashekhar L Bhingare and Manohar J Patil [ABSTRACT] [DOWNLOAD] Pages: 1913-1918   2370 Views 1436 Downloads	India
2	Effect of monsoon sowing of cotton genotypes under HDPS with soybean (6:6) - mustard in strip intercropping system AB Turkhede, Anil Karunakar, MB Nagdeve, VV Gabhane and RS Mali [ABSTRACT] [DOWNLOAD]	India



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P-ISSN: 2349-8234

JPP 2018; 7(5): 1913-1918

Received: 19-07-2018

Accepted: 21-08-2018

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## Standardization and quantification of curcumin from *Curcuma longa* extract using UV visible spectroscopy and HPLC

Prasad V Kadam, Kavita N Yadav, Chandrashekhar L Bhingare and  
Manohar J Patil

### Abstract


*Curcuma longa* (Turmeric) is used successfully in Ayurvedic formulations from ancient times. It is a rich source of bioactive phytoconstituents like curcuminoids, turmerone and many more. Curcuminoids is the group of chief dynamic components and has number of medicinal uses such as anti-inflammatory, anti-HIV, antitumour, antiviral, anticancer, antifungal and antiparasitic. Different analytical methods have been developed in recent year for the quality control analysis of curcuminoids in *Curcuma longa* extract including HPLC, HPTLC and UV-Visible Spectrophotometry. While the primary component curcumin from curcuminoids is still lacking for its analytical method development along with validation. Therefore, in the present study, a simple UV visible and HPLC method was developed and validated according to international conference harmonization (ICH) guidelines for the quantitative estimation of curcumin in *Curcuma longa* extract.

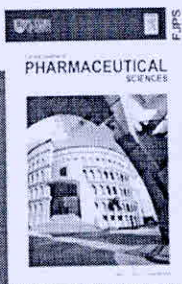
**Keywords:** Curcuminoids, curcumin, *curcuma longa*, HPLC, UV visible spectroscopy

### Introduction

Natural plant products have been used for several medical treatments in humans [1]. Natural plant products are suitable for treating a wide range of infections and diseases. Plants of Zingiberaceae family have been frequently and widely used in traditional systems of medicine



  
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Evaluation of anticonvulsant activity of the ethanolic extracts from leaves of *Excoecaria agallocha*

M.K. Shelar, M.J. Patil, S.S. Bhujbal, R.B. Chaudhari

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## Evaluation of anticonvulsant activity of the ethanolic extracts from leaves of *Excoecaria agallocha*

M.K. Shelar<sup>1</sup>, A.R. M.J. Patil<sup>2</sup>, S.S. Shujaa<sup>3</sup>, R.B. Chaudhan<sup>3</sup>

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## 1. HERBAL REMEDY FOR WOUND MANAGEMENT: A REVIEW

1446 604 0

Since from prehistoric times the practice of herbal medicine has existed as the primary form of medicine, India is one of leading bio-diversity center with the presence of over 50,000 different plant species. Many plants are unexplored though they were used from ancient times in traditional system of medicine. At the same time, several plants activity was proven scientifically, and its resurgence...

K. N. Yadav<sup>1</sup>, P. V. Kadam, S. K. Jagdale and M. J. Patil

440-449

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DOI: 10.13007/ijp.2018.v5i8.440-449

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Yadav et al., IJP, 2018, Vol. 5(8): 440-449

E-ISSN: 2348-3962; P-ISSN: 2394-5583

IJP (2018), Vol. 5, Issue 8

(Review Article)



Received on 20 April 2018, received in revised form, 07 June 2018, accepted, 13 June 2018, published 01 August 2018

## HERBAL REMEDY FOR WOUND MANAGEMENT: A REVIEW

K. N. Yadav<sup>1</sup>, P. V. Kadam, S. K. Jagdale and M. J. Patil

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**Keywords:**Wounds,  
Wound healing,  
Indian medicinal plants,  
Polyherbal formulations**Correspondence to Author:**

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**ABSTRACT:** Since from prehistoric times the practice of herbal medicine has existed as the primary form of medicine, India is one of leading bio-diversity center with the presence of over 50,000 different plant species. Many plants are unexplored though they were used from ancient times in traditional system of medicine. At the same time, several plants activity was proven scientifically, and its resurgence as herbal medicines was started in the past few years. Many countries have included herbal products, in their national health programs and national health schemes, as an important alternative for the treatment of various diseases. In day to day life, people came across accidental wounding and management of wound as a complicated process. Wound healing is a complex and dynamic process of restoring damaged tissue that involves a series of independent and overlapping stages. Many plants have the potential to heal the wounds owing to a vast array of medicinal compounds they can synthesize. In most of the countries, a great number of plants are used by tribal and folklore for the treatment of wounds and burns. These natural agents induce healing and recovery of the lost tissue by several mechanisms. These phytochemicals are not only cheap and affordable but are also harmless. The presence of a wide range of life-sustaining constituents in plants has invited scientists to examine these plants to define potential wound healing properties. The current article provides a glance on plants identified from various ethnobotanical surveys and folklore medicinal survey possessing wound healing activity and their formulations.



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#### Abstract

Wound healing is one of the 22 signs of natural healing. It is listed as the eighth form of the 500 herbs in one of leading books in the traditional system of medicine. In the same time, several plants activity was proven scientifically, and its resurgence as herbal medicines are started in the world. However, many countries have included herbal products in their national health programs and national health schemes. It also perform successfully for the treatment of various diseases. Today in day the, people are avoid accidental wounding and management of wound is a complicated process. Wound healing is a biological activity from physical or restoring damaged tissue that involves 3 phases of independent and overlapping stages. Many plants have the potential to heal the wound owing to a wide array of medicinal compounds they can synthesize. In most of the countries a great number of plants are used by tribal and folk for the treatment of wounds and burns. These natural agents make healing and recovery of the lost tissue by several mechanisms. These phytoconstituents are not only cheap and affordable but are also harmless. The presence of a wide range of the bioactive constituents in plants has indeed tempted to examine these plants to define their ethnomedicinal healing properties. The current article provides a glimpse on plants identified from various ethno botanical surveys and their medicinal uses possessing wound healing activity and their formulations.

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**Page No.:** 443-445

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V. Ghoshale, B. Agarwal, A. Tekade • Published 2018

A stability indicating high performance thin layer chromatography (HPTLC) method was developed and validated for determination of Donepezil hydrochloride and curcumin in in situ nasal gel. Study was performed on pre-coated silica gel HPTLC plates using toluene: methanol: glacial acetic acid (8: 2: 0.1 v/v/v) as the mobile phase. A TLC scanner set at 254 nm was used for direct evaluation of the chromatograms in the reflectance/absorbance mode. Method was validated according to ICH guidelines. Expand

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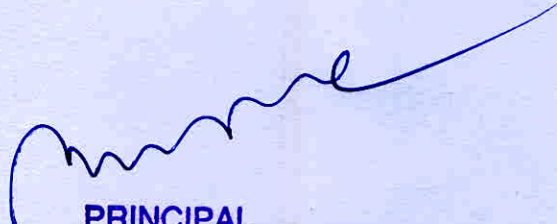
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### Atorvastatin Loaded Microsponges based Emu Oil Emulgel for Faster Wound Healing

Kuldeepsing D Rajput, Anil N Tankar and Avinash R Tekode

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## Atorvastatin Loaded Microsponges based Emu Oil Emulgel for Faster Wound Healing

Kuldeep Singh D Rajput<sup>1</sup>, Anil N Tankar<sup>2</sup> and Avinash R Tekade<sup>1\*</sup>

<sup>1</sup>Department of Pharmaceutics, JSPM'S Rajarshi Shahu College of Pharmacy, India

<sup>2</sup>Department of Pharmaceutics, Marathwada Mitra Mandal's College of Pharmacy, India

### Abstract

A micro sponge delivery system is patented, highly cross-linked, porous and polymeric in nature. Polymeric system consisting of porous microspheres that can entrap wide range of actives and then release them onto the skin over a time and in response to trigger. The fundamental appeal of the micro sponge technology overcome the problems of greasiness, stickiness associated with the conventional formulations in releasing active ingredients over an extended period of time that often result in lack of patient compliance. When applied to the skin, the MDS releases its active ingredient on a time mode and also in response to other stimuli (rubbing, temperature, pH, etc). Delivery system comprised of a polymeric bead having network of pores with an active ingredient held within was developed to provide controlled release of the active ingredients.

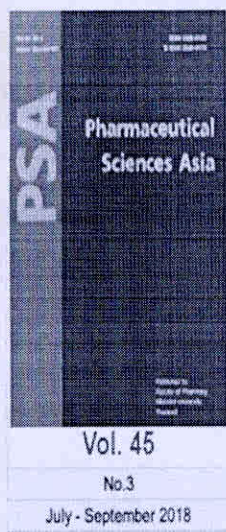
### Introduction

Micro sponge formulations have higher payload (50 to 60%), still free flowing and can be cost effective [1-3]. Microsponge can be prepared by Emulsion solvent diffusion method and Suspension polymerization method.

Eudragit polymers are preferred to control the release of drug in formulation of microsponges.

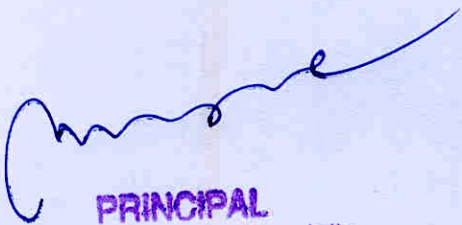


  
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 W. Lin, L. Suwannoi, N. Suksomboon\*  
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- Attitudes towards e-learning among community pharmacists in Hanoi, Vietnam. An exploratory study  
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- Characterization, biological activities and safety evaluation of different varieties of Thai pigmented rice extracts for cosmetic applications  
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- Influence of Unani polyherbal formulation on learning and memory retention in mice**  
 D.B. Ambikar<sup>\*</sup>, E.M. Birru, M.J. Patil  
 DOI: <https://doi.org/10.29690/psa.2018.03.174> 174-183  
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- The treatment of non-variceal gastrointestinal bleeding: An investigation in a Vietnamese hospital  
 X.T. Ngo, T.T.Q. Ngo, D.T. Vo, Q.T.H. Bui\*  
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**Research Article**

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ANALYSIS OF PREVALENT PATHOLOGIES, PHARMACOLOGICAL TREATMENTS AND THEIR POTENTIAL PROBLEMS IN ELDERLY PATIENTS IN A HOSPITAL OF MENDOZA, ARGENTINA  
Emiliano Giraudo\*, Gabriela Chacón, Alicia Panini, Mauricio Teves and Claudia Calderón  
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ORAL GLUCOSE TOLERANCE TEST (OGTT) WITH METHANOL EXTRACT OF SENNA OBTUSIFOLIA WHOLE PLANT  
Sabrina Irin, Md. Shamim Bappy, Md. Najmul Hossain and Mohammed Rahmatullah  
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IN VITRO REGULATION OF ADIPOGENIC DIFFERENTIATION OF ADIPOSE-DERIVED MESENCHYMAL STEM CELLS  
Shaymaa H. El-Arabi, Mohamed A. Sobh, Ahmed M. El-Waseef and Amr Negin\*  
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GLUTARALDEHYDE CROSS-LINKING BASED VALACYCLOVIR LOADED GELATIN NANOPARTICLES, A CONTROLLED RELEASE DELIVERY FOR ANTI-VIRAL THERAPY  
Purna Chandra Pujari and Nityananda Sahoo\*  
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**SYNTHESIS AND EVALUATION OF SOME NOVEL BENZIMIDAZOLE AND QUINOLONE DERIVATIVES FOR THEIR ANTIFUNGAL AND ANTIDIABETIC ACTIVITY**  
Rekha Muluk\*, Prajakta Kothawade, Gauri Kulkarni and Pramode Ingale  
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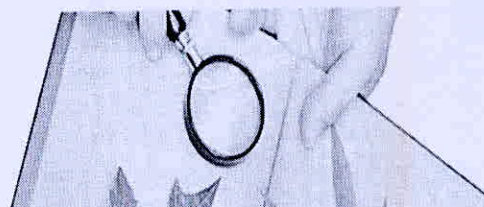
SYSTEMATIC PHYSICO-CHEMICAL INVESTIGATION OF TRADITIONAL SIDDHA FORMULATION SEENTHIL KUDINEER IN ACCORDANCE WITH AYUSH GUIDELINE USING MODERN ANALYTICAL TECHNIQUES  
P. Mirunaleni\* and A. M. Amala Hazel  
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**RATNAPARKHI M.P., CHAUDHARI P.D.**

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## ARTICLES IN VOLUME - 10, ISSUE - 4

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## A Review on Hydrazone, the fascinating field of investigation in medicinal chemistry

Author(s): Sachin H. Rohane, Ashlesha G. Makwana

DOI: 10.5958/0974-4150.2017.00070.0

Views: 13 (pdf), 1210 (html)

Access:  Open Access

Cite: Sachin H. Rohane, Ashlesha G. Makwana, A Review on Hydrazone, the fascinating field of investigation in medicinal chemistry, Asian J. Research Chem. 2017; 10(4):417-430. doi: 10.5958/0974-4150.2017.00070.0

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## Full Factorial Design for Optimization, Development, Validation of RPHPLC Method and Stability-Indicating Method for Tamsulosin and Dutasteride

Author(s): Sampada D. Dalvi, Rabindra K. Nanda, Sohan S Chitlange

DOI: 10.5958/0974-4150.2017.00082.7

Views: 22 (pdf), 1093 (html)

Access:  Open Access

Cite: Sampada D. Dalvi, Rabindra K. Nanda, Sohan S Chitlange, Full Factorial Design for Optimization, Development, Validation of RPHPLC Method and Stability-Indicating Method for Tamsulosin and Dutasteride, Asian J. Research Chem. 2017; 10(4):504-512. doi: 10.5958/0974-4150.2017.00082.7

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## Synthesis of 1,3,5 Trazinane-2-ones and 1,3,5 Oxadiazinane-2-ones linked with Benzimidazoles

Author(s): Kumaraswamy Gullapelli, M. Ravichander, P. Bhaskar, K. Jagadeesh Babu, G. Brahmeshwar

DOI: 10.5958/0974-4150.2017.00083.9

Views: 9 (pdf), 1170 (html)

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Cite: Kumaraswamy Gullapelli, M. Ravichander, P. Bhaskar, K. Jagadeesh Babu, G. Brahmeshwar, Synthesis of 1,3,5 Trazinane-2-ones and 1,3,5 Oxadiazinane-2-ones linked with Benzimidazoles, Asian J. Research Chem. 2017; 10(4): 513-516. doi: 10.5958/0974-4150.2017.00083.9

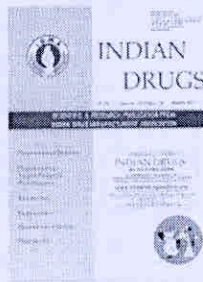


  
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## Original Research Articles

**QSAR APPROACH TO THE STUDY OF THE EGFR TYROSINE KINASE INHIBITORS: THIAZOLYL-PYRAZOLINE DERIVATIVES**  
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A 2D-QSAR model was developed to identify key properties of thiazolyl-pyrazoline derivatives analogs involved in the inhibition of the EGFR protein tyrosine kinase. Variable selection was performed by multiple linear regression method using Build QSAR Vlife Science MDS software to develop QSAR mo...

Sharma M. C.\*

**FORMULATION AND EVALUATION OF MICROSPHERE BASED ORO DISPERSIBLE TABLETS OF SUMATRIPTAN SUCCINATE**  
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Sumatriptan succinate (SS) is a drug used in the treatment of migraine headaches, but suffers from low patient compliance due to its unpalatable bitter taste. The purpose of the present work was to prepare taste-masked oro dispersible tablets (ODTs) of SS by incorporating drug loaded microspheres...

Baliga S. B.\*, Manjula B. P. and Geetha M.

**EFFECT OF HYDROALCOHOLIC EXTRACT OF DRIED FRUITS OF TRAPA NATANS L ON ANIMAL MODELS OF COGNITIVE DYSFUNCTION**  
 PAGE 39-43

In the traditional system of medicine, the dried fruits of *Trapa natans* L var *bispinosa* (TB) have been employed clinically for their nutritional and medicinal property like nerve tonic. The effect of hydroalcoholic extract of fruits of *Trapa natans* L var *bispinosa* was investigated for its nootr...

Ambikar D. B.\* and Vyawahare N. S.

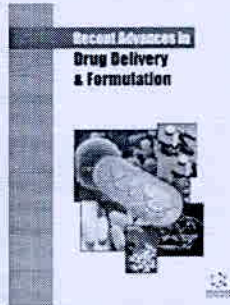
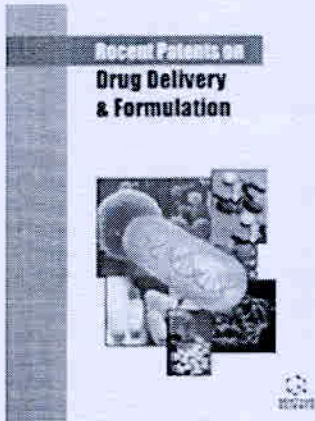
**VALIDATED RP-HPLC AND UV-SPECTROSCOPY METHODS FOR THE ESTIMATION OF DAPAGLIFLOZIN IN BULK AND IN TABLETS**  
 PAGE 44-51

Two methods were developed for the determination of dapagliflozin (DAPA) in pure form and in tablets. The procedure utilized was UV-Visible Spectroscopy and RP-HPLC with PDA detector to quantify DAPA in bulk and tablets. The sensitive linear range was identified for both methods within 0.5-5.0 µg...

Sabbagh B., Lokesh B. V. S.\* and Akouwah G. A.



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Development and Evaluation of Naproxen Sodium Gel Using Piper cubeba for Enhanced Transdermal Drug Delivery and Therapeutic Facilitation, 11(1): 28 - 35

Sunetra Patwardhan\*, Manohar Patil and Anbazhagan Sockalingam  
 DOI: 10.2174/1872211311666170105114459



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Anti-Psychotic Activity of Aqueous Root Extract of Hemidesmus indicus: A Time Bound Study in Rats, 11(1): 36 - 41

Ashwathanarayana Madhu, Gaurav Gupta\*, Bharati Arali, Dinesh K. Chellappan and Kamal Dua  
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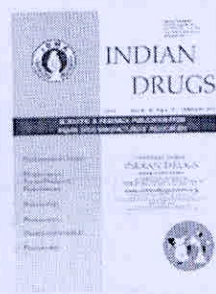


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## Review Article

**NUCLEAR MEDICINE: AN EVOLVING MEDICAL SPECIALTY**

PAGE 5-14

Historically considered a subspecialty under radiology, nuclear medicine has grown in stature by leaps and bounds as it has managed to carve out a niche for itself within the realms of medical practice. Treated as an independent specialty in modern medicine, nuclear medicine concerns itself with ...

Balasubramanian R.

**IN VIVO ASSESSMENT OF BIOAVAILABILITY OF SUSTAINED RELEASE MATRIX TABLETS OF AN ANTIHYPERTENSIVE DRUG IN RABBITS USING REVERSE PHASE CHROMATOGRAPHY**

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A new reverse phase high performance liquid chromatographic (RP-HPLC) method was developed and validated for determination of losartan potassium in rabbit plasma. The calibration curve was linear in the concentration range of 0.025 µg/mL to 0.5 µg/mL with a lower limit of detection at 0.025 µg/...

Pawar H. A.\* and Lalitha K. G.

## Short Notes

**ANTICONVULSANT ACTIVITY OF LAMOTRIGINE POLYMERIC MICELLE AND SAFRANAL NIOSOMAL FORMULATION AGAINST STRYCHNINE-INDUCED CONVULSION**

PAGE 62-64

Lamotrigine is currently available as a tablet which is administered 2-3 times per day as divided doses of 25-600 mg. Oral liquid formulations with additional sustained release properties are always preferred for pediatric, geriatric even dysphagic patients, due to their ease of administration.

Patil P. J.\*, Chaudhari S. P., Patil J. R. and Bhandurde N. B.



*M. B. More*  
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### 2016 VOLUME 3, JANUARY ISSUE 1

**Research Article**

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**NATIONAL DRUG DISTRIBUTION IN NIGERIA: IMPLICATIONS FOR THE GOALS OF NATIONAL DRUG POLICY**  
Ogbonna Brian Onyebuchi\*



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**VIOLENCE AND AGGRESSION TOWARD HEALTH CARE PROFESSIONALS IN EMERGENCY DEPARTMENTS IN TABUK, SAUDI ARABIA, 5102**  
Turki Y. Alzahrani, Abdulrahman H. Almutairi, Dakheal A. Alamri, Mari M. Alamri, Yousef S. Alalawi\*



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**EVALUATION OF WOUND HEALING POTENTIAL OF VARIOUS WOUND HEALING CREAMS IN FRESH, DIABETIC AND BURN WOUND MODELS**  
Patil Pravin\*, Nagore Dheeraj, Ambikar Digambar, Patil Manohar, Nipanikar Sanjay, Kanjilal Sanjeevan, Kanjilal Anisha



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**MOLECULAR IDENTIFICATION OF THE MEDICINAL PLANT JUSTICIA GENDARUSSA USING MATK GENE**  
L. Sarvananda, Samer Salim Abed Abed, Jijy Rohini, Balasubramanian Sathyamurthy\*



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**COMPETENCY LEVEL OF SKILLED TEACHING OF ANESTHESIA IN MBBS CURRICULUM**  
Dr. Anupam Nath Gupta\*, Dr. Pratibha Rao Lahiri, Dr. Romy Biswas, Dr. Paras Nath



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### Standardization of Ayurvedic polyherbal formulation, Kutajastaka Pravahi Kvatha

**Author(s):** Ashok Kumar Tiwari, Neelesh Dwivedi, Manoj Kumar Tripathi, Aakanksha Tiwari, Pawan Kumar Ahirwar, Sharda Prasad Tripathi

**DOI:** 10.5958/0975-4385.2016.00019.4

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**Cite:** Ashok Kumar Tiwari, Neelesh Dwivedi, Manoj Kumar Tripathi, Aakanksha Tiwari, Pawan Kumar Ahirwar, Sharda Prasad Tripathi. Standardization of Ayurvedic polyherbal formulation, Kutajastaka Pravahi Kvatha. *Res. J. Pharmacognosy and Phytochem.* 2016, 8(3): 103-106. doi: 10.5958/0975-4385.2016.00019.4

### Phytochemical and Toxicological Evaluation of *Acorus calamus* and *Argyrea speciosa* Leaves Extract

**Author(s):** Patil P.J., Patil V.R.

**DOI:** 10.5958/0975-4385.2016.00022.4

**Views:** 27 (pdf), 1639 (html)

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**Cite:** Patil P.J., Patil V.R. Phytochemical and Toxicological Evaluation of *Acorus calamus* and *Argyrea speciosa* Leaves Extract. *Res. J. Pharmacognosy and Phytochem.* 2016, 8(3): 121-124. doi: 10.5958/0975-4385.2016.00022.4

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### Standardization of Panchachurnam: an Ayurvedic polyherbomineral formulation

**Author(s):** K.V.V.S. Krishna, K. Gandhi, M.L. Ramiya, K. Sony Priya, K. Pavana Lakshmi

**DOI:** 10.5958/0975-4385.2016.00023.6

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**Cite:** K.V.V.S. Krishna, K. Gandhi, M.L. Ramiya, K. Sony Priya, K. Pavana Lakshmi. Standardization of Panchachurnam: an Ayurvedic polyherbomineral formulation. *Res. J. Pharmacognosy and Phytochem.* 2016, 8(3): 125-132. doi: 10.5958/0975-4385.2016.00023.6

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**FAST DISSOLVING TABLETS – A NOVEL APPROCH TO DRUG DELIVERY**

Adchitre Vaishali B.\*, Dr. S. S Khadbadi, Purushottam. R Patil, Malik Shaikh  
*Government College of Pharmacy, Hotel Vedant Road, Osmanpura, Aurangabad, Maharashtra, India-431005.*

Abstract

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**FORMULATION, CHARACTERISATION AND COMPARATIVE INVITRO - INVIVO EVALUATION OF ORODISPERSIBLE TABLETS OF SATRANIDAZOLE SOLID DISPERSION**

Manju Maria Mathews\*, Dr. D. Killmozhi, Dr. S. Kuppuswamy  
*Department of Pharmaceutics, Nirmala College of Pharmacy, Muvattupuzha Ernakulamdist, Kerala.*

Abstract

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**DEVELOPMENT AND VALIDATION OF HPLC METHOD FOR THE ESTIMATION OF IRBESARTAN**

Pramod L. Ingale<sup>1</sup>, Sampada D. Dalvi<sup>1</sup>, Abhijit R. Salunkhe<sup>2</sup>

<sup>1</sup>*Department of Chemistry, MarathwadaMitraMandal's College of Pharmacy, Thergaon (Kalewadi), Pune-33, SavitribaiPhule Pune University, Maharashtra, India.*

<sup>2</sup>*Department of Quality Assurance Techniques, MarathwadaMitraMandal's College of Pharmacy, Thergaon (Kalewadi), Pune-33, SavitribaiPhule Pune University, Maharashtra, India.*

Abstract

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**EVALUATION OF ANTIDIABETIC ACTIVITY OF AYU-DIA AN AYURVEDIC FORMULATION IN ALLOXAN INDUCED DIABETES MELLITUS IN RATS**

Vijayalaxmi Hiremath<sup>1</sup>, Akshatha N<sup>1</sup>, Dr. Sunitha R Joshi<sup>2</sup>, Dr.Swarna Ranjita<sup>2</sup>, Elumalai.P<sup>2</sup>, Dr.Shivalinge Gowda KP\*<sup>1</sup>

<sup>1</sup>*PES College of Pharmacy, 50 ft Road, Hanumanthanagar, Bengaluru-560050.*

<sup>2</sup>*R & D Team - Vasishtha Pharmaceuticals Pvt. Ltd, Banashankari 3rd stage, Bengaluru-560085.*

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**VALIDATED HPLC METHOD FOR SIMULTANEOUS ESTIMATION OF ISOTRETINOIN AND ERYTHROMYCIN IN BULK DRUG FORM**

Sampada D. Dalvi, Pramod L. Ingale, Sandeep S. Hatture

*Marathwada Mitra Mandal's College of Pharmacy, Thergaon (Kalewadi), Pune-33, Savitribai Phule Pune University, Maharashtra, India.*

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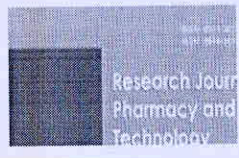


  
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**DOI:** 10.5958/0974-360X.2015.00270.X

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Author(s): Siddharth Yerunkar, Mukesh Ratnaparkhi, Mahesh Bhadgaie, Pramod Parshuramkar

Email(s): siddhart79@gmail.com

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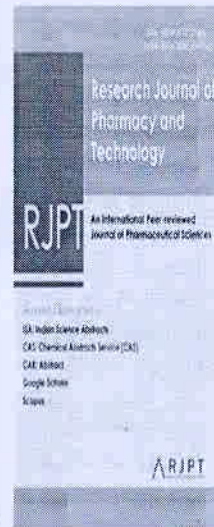
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Published in: Volume-8 Issue-11, Year-2015



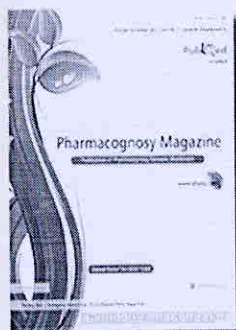
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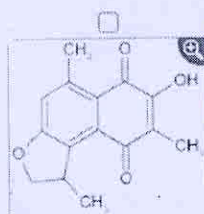
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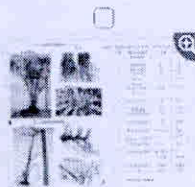
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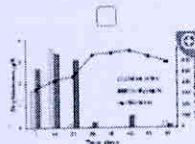
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Quantitative Determination of Rosuvastatin Calcium and Niacin Individually and Combined Tablet Dosage Form by Using UV-VIS Spectrophotometer

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