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FORMULATION AND EVALUATION OF SUSTAINED RELEASE TABLETS OF TICAGRELOR

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ABSTRACT

The aim of present investigation was formulation and development of Ticagrelor Sustained Release Matrix Tablets. Study started from the preformulation study of the drug. Drug having good solubility in both dissolution mediums. The flow of API is low so directly compressible excipient used for tablet preparation. While studying IR spectrum, we can conclude that there is no interaction between drug and other excipients. Initially feasibility trials were taken using HPMC K4M and K100M. Tablets were found acceptable in physical parameters evaluation. During drug release evaluation amount of HPMC K4M increases the drug release for long period of time. In contrast less amount of HPMC K100M helps in drug release. So role of polymer concentration is very important in this formulation. Based on that F3 batch found satisfactory and considering for further factorial screening. 3^2 factorial design applied by taking HPMC K4M and PVP K-30 as independent factors. Factorial batch T1-T9 prepared by using direct compression method. Physical and chemical evaluation was done for all batches. PVP K-30 and HPMC K4M significantly impact on Drug release and hence the model found significant. Finally the optimized batch P12 taken based on Contour plot and evaluation done. Batch T12 load for stability for 1 month and found stable. Hence the batch T12 was optimized batch.

Keywords: Ticagrelor, Matrix Tablets, Sustained Release

INTRODUCTION

The controlled drug delivery system is that which delivers the drug at a specific rate

locally or systemically for a specified period of time with minimum fluctuation in plasma

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Strategies for Formulations Development Ronald Snee,Roger Hoerl,2016-09-14 This book is based on the authors significant practical experience partnering with scientists to develop strategies to accelerate the formulation mixtures development process The authors not only explain the most important methods used to design and analyze formulation experiments but they also present overall strategies to enhance both the efficiency and effectiveness of the development process *Papers Presented at the FAO/NACA Consultation on Aquaculture for Sustainable Rural Development* Food and Agriculture Organization of the United Nations,2005 This document contains the papers presented at the Consultation on Aquaculture for Sustainable Rural Development which was organized jointly by FAO and NACA and held in Chiang Rai Thailand from March 29 31 1999 in order to develop the detailed structure of a regional program on aquaculture for sustainable rural development and to propose a strategy for its implementation The consultation took an overview of the relevant information emerging from the presentations of country reports lessons learned by specific projects experiences of regional and international organizations and donor agencies and findings of expert reviews More sharply focused examination of critical issues and discussions on specific components of the draft program concept were followed through parallel working group discussions The outputs of the working groups were further discussed during the concluding plenary Finally a detailed Program Framework on Aquaculture for Sustainable Rural Livelihood Development was conceived through consensus to serve as guiding principles for the formation of the program Publisher s description **The**

sustainable enterprise: learning from DJSI leaders ,2005 En los ltimos a os las expresiones sostenibilidad desarrollo sostenible responsabilidad corporativa y empresa sostenible se han incorporado al vocabulario habitual de directivos empresarios y acad micos Sin embargo todav a subsisten cierta confusi n y diferentes opiniones sobre el significado e implicaciones de dichos conceptos El objetivo b sico de este libro ha sido arrojar luz sobre la noci n de empresa sostenible abordando cuestiones como qu es una empresa sostenible cu les son sus principales caracter sticas o en qu difiere del

modelo de empresa tradicional Para realizar este estudio se ha elegido a los dieciocho líderes sectoriales del índice Dow Jones de Sostenibilidad IDJS Uno de los conceptos básicos en que se basa La empresa sostenible se refiere a los valores que una empresa ha de interiorizar para avanzar hacia la sostenibilidad El valor central de la empresa sostenible es su conciencia del sistema del que forma parte y su sentido de pertenencia al mismo En lugar de ser una depredadora neta del sistema físico social la empresa sostenible obtiene recursos del sistema con el propósito de contribuir a la creación neta de riqueza De acuerdo con esta concepción y a través del análisis de las dieciocho empresas líderes del IDJS se explora cómo estas empresas están integrando la sostenibilidad en su gobierno en la formulación de su estrategia y en sus sistemas de gestión Asimismo se analiza de qué manera su apertura hacia el entorno físico y social ha contribuido al desarrollo de un diálogo honesto fluido y abierto con grupos de partes interesadas Los resultados conclusiones y buenas prácticas descritos en este libro resultarán útiles a aquellas compañías que conscientes de la importancia de la sostenibilidad están intentando interiorizar el desarrollo sostenible como un motor fundamental de sus procesos de creación de valor Asimismo la conceptualización de la empresa sostenible podrá servir de base para futuros proyectos de investigación

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is available at <http://www.ScholarlyEditions.com> Bioformulations: for Sustainable Agriculture Naveen Kumar Arora, Samina Mehnaz, Raffaella Balestrini, 2016-06-06 More than a century has passed since the first bioformulations were introduced to the market. But there is still much to be done, explored and developed. Though bioformulations offer green alternatives and are important for sustainable agriculture, they make up only a small fraction of the total additions used to enhance crop yields or protect them from pests. There is a great need to develop bioformulations that can promote confidence among end users; accordingly, it is imperative that bioformulations to replace chemicals be reliable and overcome the shortcomings of the past. Bioformulations for Sustainable Agriculture discusses all the issues related to the current limitations and future development of bioformulations. It examines in detail those bioformulations that include biofertilizers and biopesticides, also commonly known as bioinoculants, presenting a global picture of their development. Further chapters address diverse microbes that are already being or could be used as bioformulations. The book also discusses the techniques, tools, and other additions required to establish bioformulations as trustworthy and global solutions. It assesses the types of bioformulations currently available on the market while also considering the future roles of bioformulations, including the reclamation of marginal and polluted soils. Further, it discusses the current legislation and much-needed amendments. Overall, the book provides a comprehensive outlook on the status quo of bioformulations and the future approaches needed to improve them and achieve sustainable agriculture and food security without sacrificing the quality of soils. This will be extremely important in offering chemical-free foods and a better future for generations to come.

Sustainable Livelihood Approach Stephen Morse, Nora McNamara, 2013-02-13 We all view the ubiquitous term sustainability as a worthwhile goal. But how can we apply the principles of sustainability in the real world at the sharp end of communities in developing nations where income insecurity is the troubled norm? This volume provides some practical answers, explaining the precepts of the sustainable livelihood approach (SLA) through the case study of a microfinance scheme in Africa. The case study centered around the work of the Catholic Church's Diocesan Development Services organization involved an SLA implemented over two years designed in part to help enhance its existing microfinance operation through closer links between local communities and international donors. The book's central conclusion is that we must move beyond the concept of sustainable livelihood itself with its in-built polarities between developed and developing nations and embrace a more global notion of sustainable lifestyle, a more nuanced and inclusive approach that encompasses not just how we make a sustainable living but how we can live sustainable lives.

Biostimulants in Agriculture II: Towards a Sustainable Future Maurizio Ruzzi, Giuseppe Colla, Youssef Rouphael, 2024-06-11 Modern agriculture needs to review and broaden its practices and business models by integrating opportunities coming from different adjacent sectors and value chains, including the bio-based industry in a fully circular economy strategy. Searching for new tools and technologies to increase crop productivity under optimal and sub-optimal conditions and to improve resource use efficiency is crucial to ensure food security while preserving soil quality, microbial

biodiversity and providing business opportunities for farmers Biostimulants based on microorganisms or organic substances obtained from renewable materials represent a sustainable efficient technology or complement to synthetic counterparts to improve nutrient use efficiency and secure crop yield stability Under the new European Union Regulation 2019 1009 plant biostimulants were defined based on four agricultural functional claims as follows Plant biostimulants are products that stimulate plant nutrition processes independently of the product s nutrient content with the sole aim of improving one or more of the following characteristics of the plant and or the plant rhizosphere 1 nutrient use efficiency 2 tolerance resistance to a biotic stress 3 quality characteristics or 4 availability of confined nutrients in the soil or rhizosphere Many diverse natural substances and chemical derivatives of natural or synthetic compounds as well as beneficial microorganisms are cataloged as plant biostimulants including i humic substances ii plant or animal based protein hydrolysates iii macro and micro algal extracts iv silicon v arbuscular mycorrhizal fungi AMF and vi plant growth promoting rhizobacteria PGPR belonging to the Azotobacter Azospirillum and Rhizobium genera

Empirical Evaluation of Renewable Energy Projects for Sustainable Development Tony Kealy, 2024-08-22 This book critically analyses renewable energy sources of electrical power energy utilised to save money on the amount of electrical energy imported from the national electricity grid and help nations meet binding environmental goals The main renewable energy sources analysed are wind turbine generators hydroelectric plant and solar PV systems The book presents a robust evaluation framework that can be used in the renewable energy analysis process One of the main findings is the identification of short term variations associated mainly with wind turbine electrical generator power output signals These short term variations are negating the potential advantages of installing wind turbine electrical generators One of the suggested methods to counteract the short term variations is the use of energy storage Without utility sized energy storage binding energy targets will be very difficult to achieve The three main realms of sustainable development namely environmental economic and human realms are discussed throughout the book The three realms are closely interlinked so a weakness identified in any one realm affects the overall sustainability of the business country any organisation development process

SOUVENIR of 2nd International Science Congress (ISC-2012) Prof. Dipak Sharma, The International Science Congress Association organized the 2nd International Science Congress ISC 2012 with Science and Technology Challenges of 21st Century as its focal theme ISC 2012 was divided in 20 sections A total number of 800 Research Papers and 1200 registrations from 23 countries all over the world have been received They was mainly from Bangladesh Bulgariya Cameroun France Greece Iran Iraq Kazakhstan Korea Lithuania Malaysia Nigeria Nepal Phillipines Pakistan Poland Romania Slovakiya USA Ukraine Venezuela Turkey and India

Handbook of Preformulation Sarfaraz K. Niazi, 2019-03-22 Preformulation studies are the physical chemical and biological studies needed to characterize a drug substance for enabling the proper design of a drug product whereas the effectiveness of a drug product is determined during the formulation studies phase Though the two disciplines overlap in practice each is a significantly distinct phase of

new drug development Entirely focused on preformulation principles this fully revised and updated Handbook of Preformulation Chemical Biological and Botanical Drugs Second Edition provides detailed descriptions of preformulation methodologies gives a state of the art description of each technique and lists the currently available tools useful in providing a comprehensive characterization of a new drug entity Features Addresses the preformulation studies of three different types of new active entities chemical biological and botanical which is the latest established class of active ingredient classified by the FDA Illustrates the activities comprised in preformulation studies and establishes a method of tasking for drug development projects Includes extensive flow charts for characterization decision making Gives extensive theoretical treatment of principles important for testing dissolution solubility stability and solid state characterization Includes over 50% new material

Continuous Pharmaceutical Processing and Process Analytical Technology Ajit S. Narang, Atul Dubey, 2023-03-01 Continuous manufacturing of pharmaceuticals including aspects of modern process development is highlighted in this book with both the why and the how emphasizing process modeling and process analytical technologies Presenting specific case studies and drawing upon extensive experience from industry and academic opinion leaders this book focuses on the practical aspects of continuous manufacturing It gives the readers the strategic perspective and technical depth needed to adopt and implement these technologies where appropriate in order to gain the competitive edge in speed agility and reliability Features Discusses scientific solutions and process analytical technology to enable continuous manufacturing in the development of new drugs Includes short stories about how some companies have adopted CM and what their drivers were and what benefits were realized Addresses economic and practical considerations unlike many other technical books Emphasizes the practical aspects to give the reader the strategic imperative and technological depth to adopt and implement these technologies Highlights the why and the how focusing on the need analysis and process modeling and process analytical technologies

Green and Sustainable Medicinal Chemistry Louise Summerton, Helen F Sneddon, Leonie C Jones, James H Clark, 2016-03-08 Pharmaceutical manufacturing was one of the first industries to recognize the importance of green chemistry with pioneering work including green chemistry metrics and alternative solvents and reagents Today other topical factors also have to be taken into consideration such as rapidly depleting resources high energy costs and new legislation This book addresses current challenges in modern green chemical technologies and sustainability thinking It encompasses a broad range of topics covered by the CHEM21 project Europe's largest public private partnership project which aims to develop a toolbox of sustainable technologies for green chemical intermediate manufacture Divided into two sections the book first gives an overview of the key green chemistry tools guidance and considerations aimed at developing greener processes before moving on to look at cutting edge synthetic methodologies Featuring innovative research this book is an invaluable reference for chemists across academia and industry wanting to further their knowledge and understanding of this important topic

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Achieving Sustainable Fisheries A.
Charlotte De Fontaubert,Indrani Lutchman,2003 **Biomedical Index to PHS-supported Research** ,1990 **Natural Polysaccharides in Drug Delivery and Biomedical Applications** Md Saquib Hasnain,Amit Kumar Nayak,2019-07-23

Natural Polysaccharides in Drug Delivery and Biomedical Applications provides a fundamental overview of natural polysaccharides their sources extraction methodologies and characterizations It covers specific natural polysaccharides and their effective application in drug delivery and biomedical use Additionally chapters in the book discuss key topics including the sources and extraction methodologies of natural polysaccharides their role in tissue engineering applications polysaccharide based nanoparticles in biomedical applications and their role in the delivery of anticancer drugs Written by industry leaders and edited by experts this book emphasizes recent advances made in the field Natural Polysaccharides in Drug Delivery and Biomedical Applications provides academics researchers and pharmaceutical health care professionals with a comprehensive book on polysaccharides in pharmaceutical delivery process Provides fundamental concepts of natural polysaccharides as it applies to the pharmaceutical biomedical and biotechnology industries Includes contributions from global leaders and experts from academia industry and regulatory agencies in the application of natural polysaccharides in

pharmaceutical products and biomedical utilization Offers practical examples illustrations chemical structures and research case studies to help explain natural polysaccharides concepts in drug delivery and biomedical applications **Sustainable Nanocomposites with Green Biomaterials** Rishabha Malviya, Sonali Sundram, 2025-03-24 The book delves into the realm of biomaterials with a strong focus on sustainability offering insights into their diverse applications in advanced therapeutics and diagnostics Tackling cutting edge topics it explores the latest developments in green biomaterials for biomedical implants and tissue engineering emphasizing sustainability in nanocomposite synthesis properties and applications The book also addresses the groundbreaking concept of biodegradable and biofriendly transient devices for sustainable monitoring and healing Further it highlights the crucial role of biodegradable scaffolds in engineering living tissues and discusses gene activated matrices for tissue engineering and regenerative medicine Various chapters delve into specialized applications such as tissue engineered cartilage products green biomaterials for innovative drug delivery and 3D printed biodegradable metals in orthopedics and stomatology The book also explores the use of bioresorbable polymers in advancing minimally invasive surgical procedures and customizing medical devices for personalized medicine Additionally it sheds light on the integration of nanobioengineered platforms in electrochemical biosensors for disease diagnosis antimicrobial biomaterials in dental healthcare silk based biomaterials for regenerative medicine and drug delivery and the utilization of plant derived biomaterials in cardiac tissue repair This comprehensive volume not only provides a snapshot of the latest advancements in the field but also underscores the pivotal role of green biomaterials in shaping the future of healthcare technologies

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