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**Sustain drug delivery system Design**

*Page 3/35*

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Mechanisms of Modified Release (MR)  
Formulations Dissolution and Diffusion

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NDDS) Chris Brown - No Guidance

(Audio) ft. Drake MCQs ON

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through the body - 3D Animation *How do*

*microneedles deliver drugs? HD* ~~Osmotic~~

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delivery system is the novel drug delivery  
system (NDDS) which plays an important  
role in improving the therapeutic  
effectiveness of the drugs by

*(PDF) SUSTAINED RELEASE MATRIX  
TYPE DRUG DELIVERY SYSTEM ...*

constant release rate has always been a

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challenge to the pharmaceutical technologist. Drug release through matrix system is determined by Water penetration, Polymer swelling, Drug dissolution, Drug diffusion, Matrix erosion have been utilized as formulation approaches. The present article contains brief review on various formulation

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approaches for Sustained release drug  
delivery system.

*SUSTAINED RELEASE MATRIX TYPE  
DRUG DELIVERY SYSTEM - AN ...*  
SUSTAINED RELEASE MATRIX TYPE  
DRUG DELIVERY SYSTEM: A  
REVIEW

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*(PDF) SUSTAINED RELEASE MATRIX  
TYPE DRUG DELIVERY SYSTEM ...*

Sustained Release is also providing promising way to decrease the side effect of drug by preventing the fluctuation of the therapeutic concentration of the drug in the body. However after absorption of

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drug from is complete, plasma drug concentration decline according to the drugs pharmacokinetic profile.

*SUSTAINED RELEASE MATRIX TYPE DRUG DELIVERY SYSTEM: A ...*

Sustained release drug delivery is improve patient compliance by reduction frequency

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of drug administration, reduction steady-  
state fluctuation of drug levels, increased  
safety margin of low...

*(PDF) SUSTAINED RELEASE MATRIX  
SYSTEM: AN OVERVIEW*

KEY WORDS: sustained release, Matrix  
tablet, oral drug delivery system.

*Page 15/35*

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Delivery System: A Review  
Schematic of matrix-type systems for  
controlled drug delivery. Matrix delivery  
systems can be constructed with drug  
dissolved...

*(PDF) MATRIX TABLET: AS A  
SUSTAINED RELEASE DRUG  
DELIVERY ...*



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(PDF) SUSTAINED RELEASE MATRIX  
TYPE DRUG DELIVERY SYSTEM ...

Disclosed is a matrix-type sustained release preparation containing a basic drug unstable against an acid as an active pharmaceutical ingredient, wherein the decomposition of the basic drug unstable against the acid can be prevented and

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therefore the pH-dependent release can be  
reduced.

*Sustained Release Matrix Type Drug  
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11 Matrix systems are widely used for the  
purpose of sustained release. It is the  
release system which prolongs and

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controls the release of the drug that is dissolved or dispersed. In fact, a matrix is defined as a well-mixed composite of one or more drugs with gelling agent i.e. hydrophilic polymers. 12 By the sustained release method therapeutically effective concentration can be achieved in the systemic circulation over

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## *Matrix Type Drug Delivery System: A Review*

Introduction of matrix tablet as sustained release (SR) has given a new break through for novel drug delivery system (NDDS) in the field of Pharmaceutical technology. It excludes complex

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production procedures such as coating and  
pelletization during manufacturing and  
drug release rate from the dosage form is  
controlled mainly by the

*SUSTAINED RELEASE DRUG  
DELIVERY SYSTEM: A REVIEW*

In a matrix or monolithic delivery system

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the drug is either molecular dissolved or dispersed inside a matrix. Compared to a reservoir system, a matrix system is not enveloped within a rate limiting membrane. As such the release rate of the drug from the matrix system is normally not constant and decreases in time.

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Modified-release dosage is a mechanism that delivers a drug with a delay after its administration or for a prolonged period of time or to a specific target in the body.

Sustained-release dosage forms are dosage forms designed to release a drug at a

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predetermined rate in order to maintain a constant drug concentration for a specific period of time with minimum side effects. This can be achieved through a variety of formulations, including liposomes and drug-polymer conjugates. Sustained release's



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*Modified-release dosage - Wikipedia*  
SUSTAINED RELEASE MATRIX TYPE  
DRUG DELIVERY SYSTEM: A  
REVIEW INTRODUCTION

*SUSTAINED RELEASE MATRIX TYPE  
DRUG DELIVERY SYSTEM: A ...*  
Sustained- release dosage form is defined

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as any drug or dosage form modification that prolongs the therapeutic activity of the drug.(1) In market there are many antihypertensive drugs even in sustained release tablets to be taken once daily. Thus, sustained drug delivery results in optimum drug therapy with reduced frequency of dosing and side

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*Formulation and Evaluation of Sustained  
Release Matrix ...*

Matrix and reservoir based drug delivery systems A number of Text books of Pharmaceutics give information about microencapsulation of drugs for different reasons. The major objective of...

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*Matrix and reservoir based drug delivery  
systems*

BIOGRUND's one-step matrix agent CompactCel® SR provides an easy-to-use compound which controls the sustained release of active ingredients.

CompactCel® SR forms a gel, through

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which the active ingredient diffuses. The use of NaCMC accelerates the gel-forming process, so the initial drug release is reduced.

*Matrix Sustained Release Applications /  
Pharma Excipients*

Hydrophilic matrix tablets are a type of

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sustained release dosage form characterized by distributing a drug in a matrix that is usually polymeric.

Tolcapone is a drug that inhibits the enzyme catechol-O-methyl transferase. In recent years, it has been shown that tolcapone is a potent inhibitor of the amyloid aggregation process of the

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transthyretin protein, and acts by stabilizing the structure of the protein, reducing the progression of familial amyloid polyneuropathy.

*Formulation of Sustained Release*

*Hydrophilic Matrix ...*

release/sustained release or the controlled-

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release drug delivery system rather  
investigation and development of new  
drug due to investigation cost of a new  
drug 5-8 . Matrix tablets is a promising  
approach for the establishment of  
extended-release drug therapy as tablets

*REVIEW ARTICLE Impact Factor: 5.019*

*Page 32/35*



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Hydrophilic matrix tablets were prepared by wet granulation technique, while hydrophobic (wax) matrix tablets were prepared by melt granulation technique and in vitro dissolution studies were performed using United States Pharmacopeia (USP) apparatus type II.

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Hydrophobic matrix tablets resulted in sustained in vitro drug release (>20 hours) as compared with hydrophilic matrix tablets (<14 hours).

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