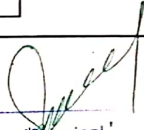
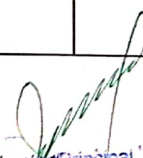


3.3.2 Number of books and chapters in edited volumes/books published and papers published in national/ international conference proceeding per teacher during last five years					
Year	2019-2020	2020-2021	2021-2022	2022-2023	2023-2024
Number	0	1	0	1	0

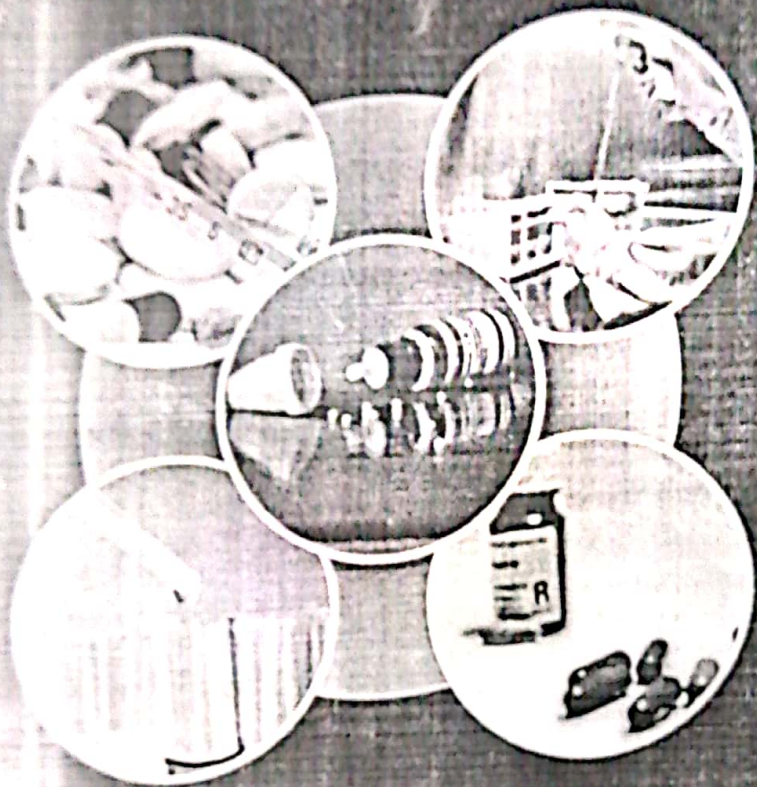

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3.2.2 Number of books and chapters in edited volumes/books published and papers published in national/ international conference proceedings per teacher during the year

Sl. No.	Name of the teacher	Title of the book/chapters published	Title of the paper	Title of the proceedings of the conference	Name of the conference	National / International	Year of publication	ISBN/ISSN number of the proceeding	Affiliating Institute at the time of publication	Name of the publisher
1	Dr.M.Akiful Haque, Sanjay Kumar, Madhu Bala, Poonam Dogra, Priyanka Rana	Practical Handbook Pharmaceutical Analysis-II	Nil	Nil	Nil	National	2021	978-9390846-32-0	Yes	AkiNik publications
2	Pooja Sharma, Sujit bose, Akhil Moudgil, Divya Arora, Sushila, Manish Vyas, Shivalika, Mamta Devi, Bhupendera Tomar	Nil	Nanosuspension as a promising Drug Delivery approach for the antidiabetic drug: An inclusive review on technology and future aspects.	AIP Conference Proceedings	Nil	International	2023	Nil	Yes	AIP Publishing


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PRACTICAL HANDBOOK PHARMACEUTICAL ANALYSIS - II



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Published by
Akinik Publications,
169, C-11, Sector - 3, Rohini,
Delhi - 110085, India
Toll Free (India): 18001234070
Email: akinikbooks@gmail.com

ISBN 9789390846320



9 789390 846320

₹ 637 US\$ 17

Nanosuspension as a Promising Drug Delivery Approach for the Antidiabetic Drug: An Inclusive Review on Technology and Future Aspects

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Abstract. Nanosuspension is a part of nanotechnology which is a submicron colloidal dispersion of pharmaceutically active ingredients in a liquid phase having a size range below 1 μ m, and which is stabilized by surfactants and polymers. Most of the newly developed drugs are water-insoluble, show poor bioavailability. Glimepiride is an anti-diabetic drug that belongs to the sulfonylurea class, which is used to treat type II diabetes mellitus. Glimepiride increases insulin secretion by acting on the β -cells of the pancreas. Glimepiride binds to sulphonylurea receptors which are present on β -cell on the plasma membrane, which close the ATP-sensitive potassium channel leading to depolarization of the cell membrane. So there is the opening of voltage-gated calcium channel due to which there is an influx of calcium ions causes the secretion of the preformed insulin molecule. It is categorized under biopharmaceutical classification system class II drug, having poor solubility and high permeability. In this review, different methods were studied to formulate the nanosuspension of glimepiride to increase the solubility of glimepiride.

Keywords- Glimepiride, Nanosuspension, Anti-Diabetic, Solubility, Polymers, Drug Deliver

INTRODUCTION

Diabetes mellitus (DM) is a chronic, life-long endocrine, and metabolic disorder that occurs due to a defect in insulin secretion and insulin action. Insulin is the hormone that is produced by a specialized cell called β -cells present on the organ pancreas. Normally our body breakdown the carbohydrates and sugars which convert into glucose molecule and act as fuel for our body, but for utilization of glucose, hormones insulin is required. The deficiency of insulin leads to an increase in the blood glucose level in a body along with disturbances in the metabolism of carbohydrates, fats, and proteins. If diabetes is uncontrolled then it leads to severe diabetic complications like retinopathy, neuropathy, and various cardiovascular complications.

Proceedings of the International Conference on Materials for Emerging Technologies
AIP Conf. Proc. 2800, 020177-1-020177-14; <https://doi.org/10.1063/5.0163115>
Published by AIP Publishing, 978-0-7354-4631-1/\$30.00

020177-1

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