


3.3.2 Number of books and chapters in edited volumes/books published and papers published in national/ international conference proceedings per teacher during last five 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	Calendar Year of publication	ISBN number of the proceeding	Affiliating Institute at the time of publication	Name of the publisher
1	Dr. Kumar Raja Jayavarapu	Advanced Pharmacology				National	2023	978-93-5570-598-3	Mother Teresa Pharmacy College	AkNik Publications
2	Dr. Praveen Kumar Dasari	Advanced Pharmacology				National	2023	978-93-5570-598-3	Mother Teresa Pharmacy College	AkNik Publications
3	Dr. Kumar Raja Jayavarapu	Current Overview on Pharmaceutical Science	"Quality Evaluation of Selected drug in Pharmaceutical formulation by spectrophotometric estimation of Imatinib in pure and tablet dosage form"			National	2022	978 – 960551-2-7	Mother Teresa Pharmacy College	BP International
4	Dr. Praveen Kumar Dasari	Hospital and Clinical Pharmacy				National	2023	978-81-19140-57-2	Mother Teresa Pharmacy College	RK Publications
5	Dr. Kumar Raja Jayavarapu	Pharmaceutical Research - Recent Advances and Trends II	Stability Indicating UV Spectrophotometric Method Development and Validation of Fisetin in Pure and Pharmaceutical Capsule dosage form			National	2023	978-81-973924-2-9	Mother Teresa Pharmacy College	BP International


 PRINCIPAL
 Mother Teresa Pharmacy College
 Sathupally, Khammam (Dt.)


Current Overview on Pharmaceutical Science

Vol. 1

Edited by Dr. Rafik Karaman





B P International


PRINCIPAL
MOTHER TERESA PHARMACY COLLEGE
Sathupally, Khammam (Dist)

Contents

Preface	i
Chapter 1 Validation of Sample Size Estimation by Bootstrapping Technique: Reference-scaled Average Bioequivalence Study V. Chandrakala and Utpal Kumar Sanki	1-18
Chapter 2 An Overview on Non-steroidal Anti Inflammatory Drugs and Prodrug Concept Meenakshi Jaiswal, Nidhi Agrawal, Yogendra Kumar and S. K. Lanjhiyana	19-26
Chapter 3 Antiradical Activity of Five Plants Used for the Treatment of Type 2 Diabetes in Benin: A Comparative and Analytical Overview Koukouli Semako Omedine and Agbangnan Cokou Pascal	27-43
Chapter 4 QSAR Analysis and ADMET Study on 3, 5-Disubstituted Oxadiazole Derivatives as Anticancer Agents Sanmati Kumar Jain, Ajay Kumar Gupta and Sanjay Kumar Lanjhiyana	44-65
Chapter 5 Tubeimoside-1: An Updated Overview on Its Molecular Mechanisms and Medical Applications Lanan Wassy Soromou and Mamadou Fodé Camara	66-88
Chapter 6 Lead Identification from the Phytoconstituents of <i>Cadaba fruticosa</i> (L.) Druce for the Treatment of PCOS: A Computational Approach M. Amudha, S. Rani and P. Parasuraman	89-98
Chapter 7 Quality Evaluation of Selected Drug in Pharmaceutical Formulations by Spectrophotometric Estimation of Imatinib Mesylate in Pure and Tablet Dosage Form Kumar Raja Jayavarapu and V. D. Sundar	99-103
Chapter 8 A Brief Overview on Chamomile Sachin Aglawe, Amol Gayke, Kavita Sharma, Deven Aspalani and Chandrashekar Wake	104-114


PRINCIPAL
MOTHER TERESA PHARMACY COLLEGE
Sathupally, Khammam (Dist.)

Quality Evaluation of Selected Drug in Pharmaceutical Formulations by Spectrophotometric Estimation of Imatinib Mesylate in Pure and Tablet Dosage Form

Kumar Raja Jayavarapu ^{a*} and V. D. Sundar ^b

DOI: 10.9734/bpi/cops/v1/4704A

ABSTRACT

For the determination of imatinib mesylate in both its pure and tablet dose forms, a simple and sensitive spectrophotometric approach has been established. Imatinib mesylate is a white crystalline powder. The suggested approach is founded on the measurement of ultraviolet light absorption in distilled water. The UV spectrum of Imatinib mesylate in distilled water showed λ_{max} at 256 nm. Beer's law is valid in the concentration range of 2-12 $\mu\text{g/ml}$. In terms of precision, accuracy, ruggedness, and robustness, this method has been validated. The procedure is reproducible and selective for the estimation of the given drug, according to statistical analysis.

Keywords: Spectrophotometry; imatinib mesylate; tablet dosage form; evaluation.


1. INTRODUCTION

Imatinib mesylate is a 2-phenylamino pyrimidine derivative that acts as a selective inhibitor of many tyrosine kinase enzymes. It occupies the TK active site, resulting in a reduction in activity [1-4]. Chemical name of imatinib is 4-4[(4-methyl-1-piperazinyl) methyl]-N-[4-methyl-3-[[4-(3-pyridinyl)-2-pyrimidinyl] amino] phenyl] – benzamide mono methane sulfonate. It has a molecular formula of $\text{C}_{29}\text{H}_{31}\text{N}_7\text{O}_3\text{S}$ and a molecular weight of 589.71. It includes the structural formula (Fig. 1). Imatinib mesylate is a white crystalline powder which is freely soluble in distilled water, 0.1 N HCl, methanol and sparingly soluble in dimethyl ether [5,6]. The drug is officially listed in Martindale, the Extra Pharmacopoeia. Several analytical methods had been reported for the estimation of Imatinib mesylate in biological fluids and in tumor cells but no UV-Spectrophotometric method was reported for the estimation in pharmaceutical dosage forms [7-9].

^a Department of Pharmaceutical Analysis, Mother Teresa Pharmacy College, Sathupally-507303, India.

^b Research Labs, GIET School of Pharmacy, Rajahmundry-533294, AP, India.

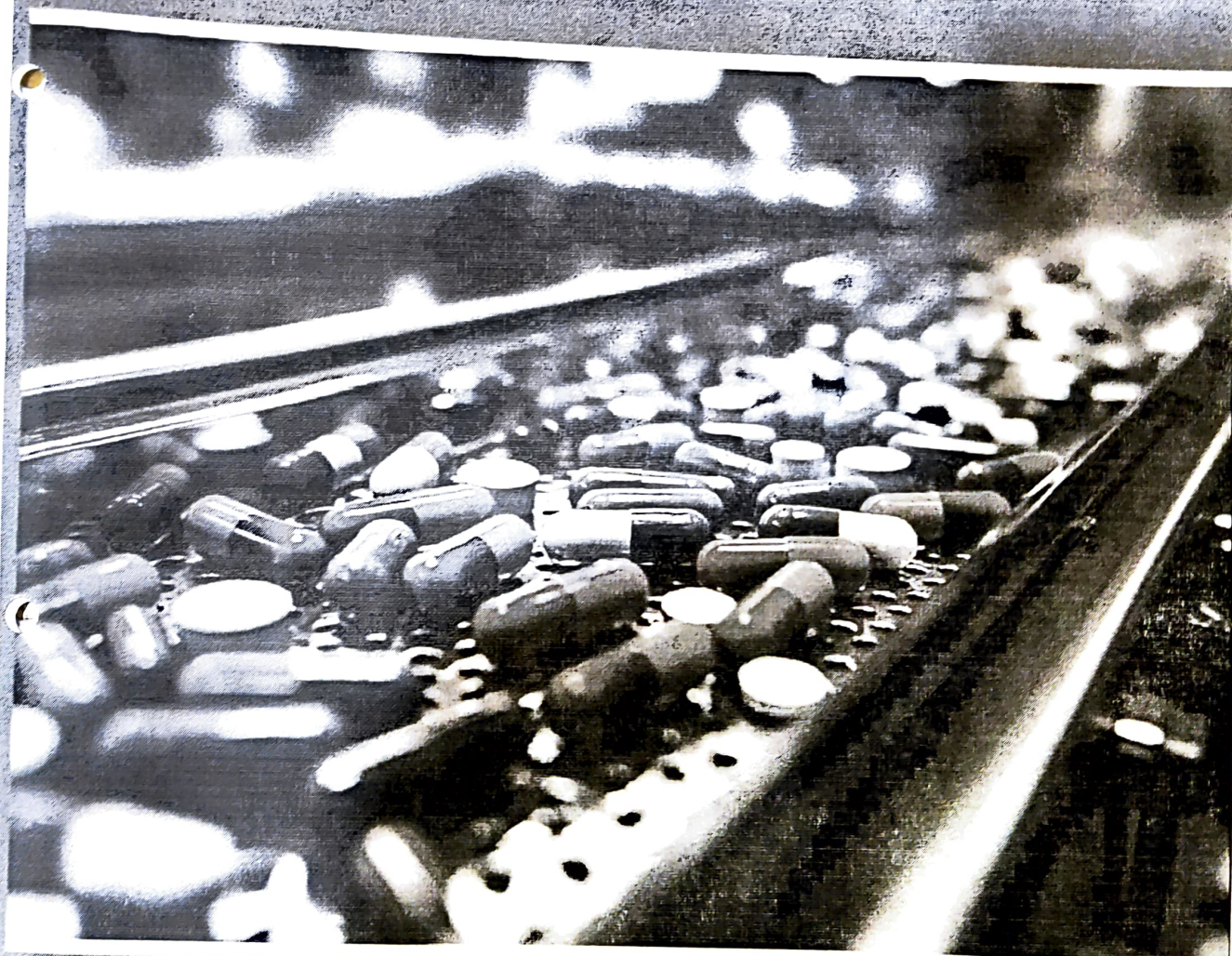
*Corresponding author: E-mail: rajajayavarapu@gmail.com;


PRINCIPAL
MOTHER TERESA PHARMACY COLLEGE
Sathupally, Khammam (Dist.)

Pharmaceutical Research - Recent Advances and Trends

Vol. 2

Edited by Prof. Kevin Fernandez



B P International


J. G. Nigam

PRINCIPAL

MOTHER TERESA PHARMACY COLLEGE
Sathupally, Khammam (Dist.)

Contents

About The Editor	i
Preface	ii
Chapter 1 Beyond Separation: The Transformative Impact of Hyphenated Techniques in Micro and Macro Quantification Chandan C., Dhatri T. N., Jero Victor Wilson and M. R. Jeyaprakash	1-17
Chapter 2 Stability Indicating UV Spectrophotometric Method Development and Validation of Fisetin in Pure and Pharmaceutical Capsule Dosage Form R. Nageswara Rao, L. Siva Shankar Reddy, N. Madangopal, M Lakshmi Devi, R. Dharani, K. Raj Kumar, N. Venkateswara Reddy, P. Chandana, V. Ravikumar and J. Kumar Raja	18-27
Chapter 3 Next-Generation Drug Delivery Strategies for Personalized Healthcare Shubham Shende, Lalchand Devhare, Chandani Prasad, Ashish Khobragade and Ajit Khapne	28-62
Chapter 4 Determining the Effect of Natural Antibiotics on Selected Clinical Isolates from Minna General Hospital, Niger State, Nigeria Erena Nuhu Bako	63-72
Chapter 5 Targeting the Proline-Glutamine-Asparagine Axis in Cancer Therapy Macus Tien Kuo, Helen H. W. Chen, Lynn G. Feun and Niramol Savaraj	73-103
Chapter 6 Sun Protection Factor of Some Sunscreen Formulations Used in Cosmetics: A Comparative Study Masheer Ahmed Khan, Gajanand Engla and Love Kumar Soni	104-114
Chapter 7 A Review on Nebivolol: Pharmacokinetic and Pharmacodynamics Approach Sahana G. N., Sarala N. and Kumar T. N.	115-125
Chapter 8 Wound Healing Effects of Panchavalka Ointment on Mechanically Induced Wounds in Wistar Albino Rats Vaikhari Dhurve, Pravin Jawanjal, Mukesh Naria and Tukaram Dudhamal	126-137


PRINCIPAL
MOTHER TERESA PHARMACY COLLEGE
Sathupally, Khammam (Dist)

Stability Indicating UV Spectrophotometric Method Development and Validation of Fisetin in Pure and Pharmaceutical Capsule Dosage Form

R. Nageswara Rao ^{a++}, L. Siva Shankar Reddy ^a,
N. Madangopal ^a, M Lakshmi Devi ^a, R. Dharani ^a, K. Raj Kumar ^a,
N. Venkateswara Reddy ^a, P. Chandana ^a, V. Ravikumar ^b
and J. Kumar Raja ^c

DOI: <https://doi.org/10.9734/bpi/prrat/v2/563>

Peer-Review History:

This chapter was reviewed by following the Advanced Open Peer Review policy. This chapter was thoroughly checked to prevent plagiarism. As per editorial policy, a minimum of two peer-reviewers reviewed the manuscript. After review and revision of the manuscript, the Book Editor approved the manuscript for final publication. Peer review comments, comments of the editor(s), etc. are available here: <https://peerreviewarchive.com/review-history/563>

ABSTRACT

Objective: The objective of the study was to develop and UV Spectrophotometric method and apply the method to dosage form.

Methods: A simple, precise and sensitive ultraviolet spectrophotometric method was developed for the determination of Fisetin in pure and pharmaceutical capsule dosage form; the spectroscopic method was run through Shimadzu UV-1800 with solvent of Methanol: 0.1%OPA was used in this method-working wavelength was selected at 362nm.

Results: Beer-Lambert's law revealed a good correlation in the concentration range of 3-15µg/ml. The absorbance was found to be 0.385 with %RSD for interday precision and intraday Precision was 0.53% & 0.51%.

Conclusion: The developed method was successfully applied to the determination of Fisetin in commercially available dosage forms. A statistical comparison of the results showed an insignificant difference between the proposed method and reference method. The proposed methods offered the

^a Department of Pharmaceutical Analysis, Santhiram College of Pharmacy, Nandyal-518501, Andhra Pradesh, India.

^b Department of Pharmaceutical Biotechnology, School of Pharmacy, Guru Nanak Institutions Technical Campus, Hyderabad, Telangana, India.

^c Department of Pharmaceutical Analysis, Mother Teresa College of Pharmacy, Kothuru, Sanketika Nagar, Sathupally, Telangana 507303, India.

⁺⁺ Associate Professor;

*Corresponding author: E-mail: pharmanag@gmail.com;


PRINCIPAL
MOTHER TERESA PHARMACY COLLEGE
Sathupally, Khammam (Dist)

Number of Published papers: He has published 22 articles in reputed journals.

Any other remarkable point(s): Till date, he guided 14 M.Pharm students and 50 UG students. He published 2 patents and 1 book.



Dr. V. Ravikumar (Professor)

Department of Pharmaceutical Biotechnology, School of Pharmacy, Guru Nanak Institutions Technical Campus, Hyderabad, Telangana, India.

Research and Academic Experience: He has 15 years of research and academic experience.

Research Area: His areas of research mainly include Photochemistry, Formulation and Evaluation Studies and Separation methods.

Number of Published papers: He has published 21 articles in reputed journals.

Any other remarkable point(s): Till date, he guided 10 M.Pharm students and 55 UG students. He published 2 patents.



Dr. J. Kumar Raja (Professor and Principal)

Department of Pharmaceutical Analysis, Mother Teresa College of Pharmacy, Kothuru, Sanketika Nagar, Sathupally, Telangana 507303, India.

Research and Academic Experience: He has 16 years of research and academic experience.

Research Area: His area of research mainly focuses on Analytical Method Development and Validation.

Number of Published papers: He has published 31 articles in reputed journals.

Number of Patents Published: He has published 3 patents.

Any other remarkable point(s): Till date, he guided 15 M.Pharm students and 54 UG students. He is also a Life member of the Association of Pharmaceutical Teachers of India (APTI), for Telangana, State Branch and a Registered Pharmacist under the State Pharmacy Council, AP, India.

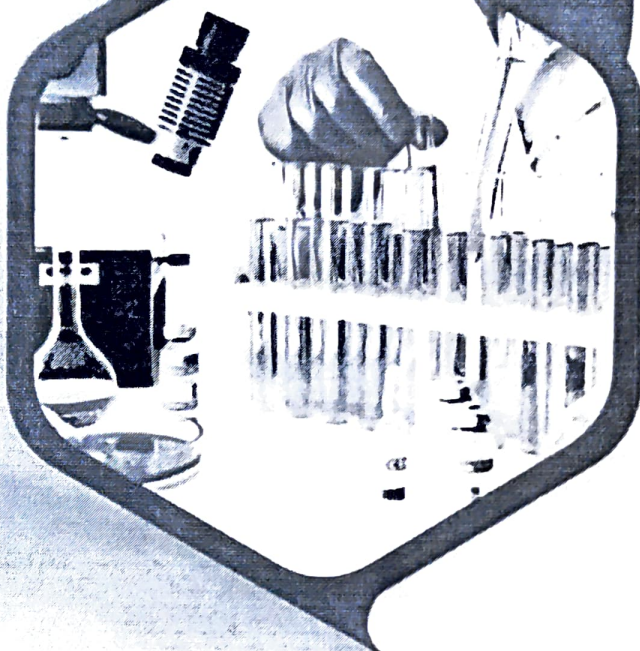
© Copyright (2024): Author(s). The licensee is the publisher (B P International).

Peer-Review History:

This chapter was reviewed by following the Advanced Open Peer Review policy. This chapter was thoroughly checked to prevent plagiarism. As per editorial policy, a minimum of two peer-reviewers reviewed the manuscript. After review and revision of the manuscript, the Book Editor approved the manuscript for final publication. Peer review comments, comments of the editor(s), etc. are available here: <https://peerreviewarchive.com/review-history/563>



PRINCIPAL
MOTHER TERESA PHARMACY COLLEGE
Sathupally, Khammam (Dist)



Dr. Kumaraswamy Gandla
Dr. V. Lalitha
Dr. Kumar Raja Jayavarapu
Dr. Praveen Kumar Dasari

Advanced Pharmacology



AKINIK PUBLICATIONS™
NEW DELHI

J. Oruga
PRINCIPAL

MOTHER TERESA PHARMACY COLLEGE
Sathupally, Khammam (Dist.)



Dr. Kumar Raja Jayavarapu, Professor and Head, Department of Pharmaceutical Analysis, Mother Teresa Pharmacy college, Sathupally affiliated to JNTU, Hyderabad. He has nearly 14 years of multifaceted experience in academic. Well expertise in Analytical method development and Validation. Till date guided 12 M.Pharm students and 45 UG students. Published 34 research papers in national/International journals and published 02 Indian patents.



Dr. Praveen Kumar Dasari, Professor and Head, Department of Pharmaceutical Biotechnology, Mother Teresa Pharmacy college, Sathupally affiliated to JNTU, Hyderabad. He has 14 years of multifaceted experience both academics and research. He got Best Poster Awards in various national Seminars, Published 3 research papers in national/International journals and published 07 Indian patents.

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



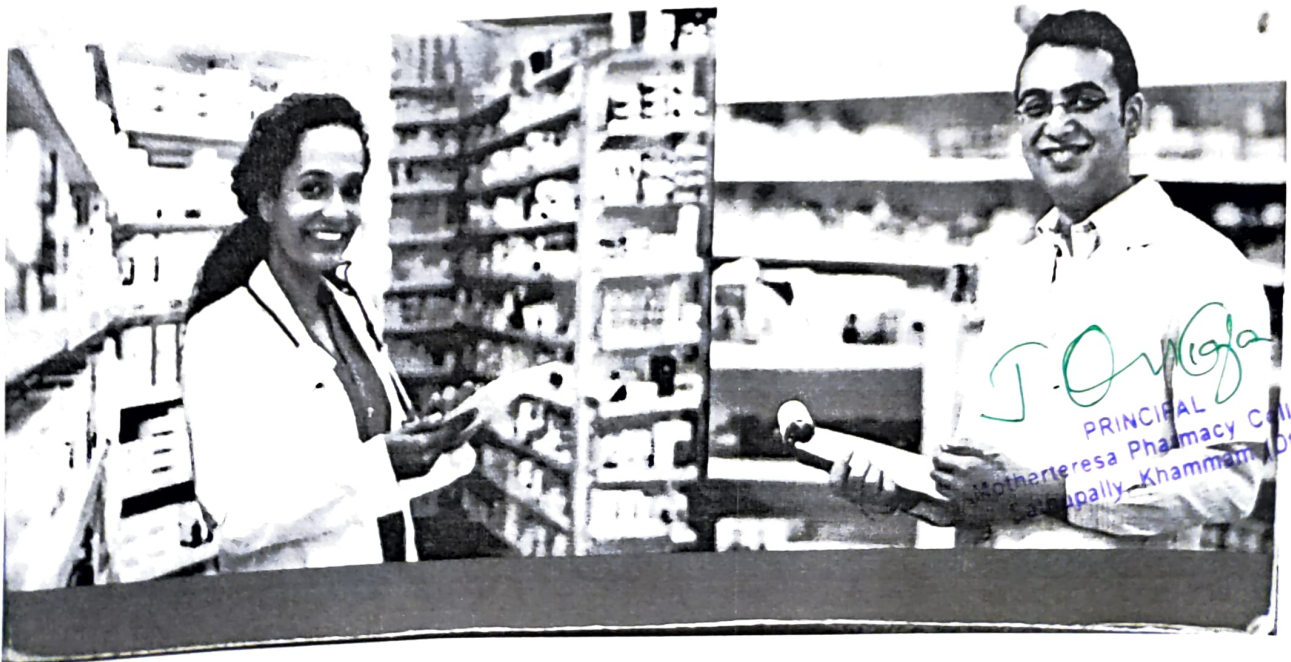
J. S. Nigga
PRINCIPAL
MOTHER TERESA PHARMACY COLLEGE
Sathupally, Khammam (Dist.)



Ms. Sai Mounika Muramulla
Dr. Aravinth Vijay Jesuraj
Dr. Satyapriya Roy
Dr. Praveen Kumar Dasari

A Text Book of

HOSPITAL AND CLINICAL PHARMACY



J. Origa
PRINCIPAL
Mother Teresa Pharmacy College
Khammam (Dt.)



Dr. Praveen Kumar Dasari, Professor and Head, Department of Pharmaceutical Biotechnology Mother Teresa Pharmacy college, Sathupally affiliated to JNTU, Hyderabad. Graduated from Bapatla College of Pharmacy, Bapatla, AP. Post Graduate in Biotechnology from Andhra University, Visakhapatnam, AP. Holds Ph.D from Acharya Nagarjuna University, Guntur, AP. Dr. Praveen Kumar Dasari has 15 years of multifaceted experience both academics and research. He got Best Poster Awards in various national seminars; he guided M. Pharm students and B. Pharm students. He has 34 research papers in various national and international journals. He has 07 patent publications. He received Best Teacher Award from SIMS College of Pharmacy, Guntur. A.P. Dr. Praveen Kumar Dasari is serving as editorial board member and advisory board member for national and international journals.



ISBN 978-81-19140-57-3



9 788119 140572

J. G. Nigga
PRINCIPAL
Mother Teresa Pharmacy College
Sathupally, Khammam (Dt.)