



LOKMANYA TILAK JANKALYAN SHIKSHAN SANSTHA'S
PRIYADARSHINI J. L. COLLEGE OF PHARMACY
(Formerly known as J. L. Chaturvedi College of Pharmacy)
Electronics Zone Building, MIDC, Hingna Road, Nagpur-440016 (M.S.) India
Tel. No.: +91-7104 – 299510
E-mail: principal@pjlc.edu.in, ilccpngp@gmail.com • Website: www.pjlc.edu.in
Accredited with Grade B++ by NAAC
Institute Code: DTE 4265 & RTMNU 265



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Thesis submitted by M.Pharm in the year 2021-22pg.no. 1 to pg.no.76

Certified documents from pg.no.1 to pg.no.76

**DEVELOPMENT AND VALIDATION OF ANALYTICAL
METHODS FOR AZELNIDIPINE AND AZILSARTAN
MEDOXOMIL IN API AND SOLID DOSAGE FORM**

Thesis

Submitted for the approval of thesis in partial fulfilment of requirements for

Degree of

MASTER OF PHARMACY

IN

PHARMACEUTICAL CHEMISTRY

In the Faculty of Science and Technology Rashtrasant Tukadoji Maharaj
Nagpur University, Nagpur.

Submitted By

**Mayur Ashok Ikhankar
(B. Pharm)**

Research Guide

**Dr. Dinesh P. Kawade
(M.Pharm, Ph.D.)**



**PRIYADARSHINI J. L. COLLEGE OF PHARMACY,
ELECTRONIC ZONE BUILDING, MIDC, HINGNA ROAD NAGPUR-
440016, M.S.
2021-2022**



LOKMANYA TILAK JANKALYAN SHIKSHAN SANSTHA'S

PRIYADARSHINI J. L. COLLEGE OF PHARMACY

(Formerly called J. L. Chaturvedi College of Pharmacy)

Electronics Zone Building, MIDC, Hingna Road, Nagpur-440016, (M.S.)

Tel. & Fax No. +91-7104-299510, E-mail jeep_nup@rediffmail.com, Website

www.tilco.edu.in

(Approved By AICTE & DTE, New Delhi, Affiliated to R.T.M. Nagpur University Nagpur)

ACCREDITED WITH GRADE B++ BY NAAC.

Dr. D. R. Chaple

(M.Pharm., Ph.D.)

Principal

Priyadarshini J. L. College of Pharmacy

Nagpur- 440016.

CERTIFICATE

This is to certify that the work investigation described in this dissertation, entitled "DEVELOPMENT AND VALIDATION OF ANALYTICAL METHODS FOR AZELNIDIPINE AND AZILSARTAN MEDOXOMIL IN API AND SOLID DOSAGE FORM", is submitted in the partial fulfilment of the requirement for the degree of **Master of Pharmacy in Pharmaceutical Chemistry**, in the faculty of Science and Technology, **Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur**. This work is original as far as my knowledge is concerned and not imitated from anywhere. This work has been carried out in laboratories of the Priyadarshini J. L. College of Pharmacy, Nagpur by **Mayur Ashok Ikhankar**, under the guidance supervision of **Dr. Dinesh P. Kawade**, Priyadarshini J. L. College of Pharmacy, Nagpur.

This dissertation is now ready for examination.

Place: Nagpur

Date: 14/07/2022

Dr. D. R. Chaple

(Principal)

PRINCIPAL

**Priyadarshini J. L. College of
Pharmacy, Nagpur.**

**Analytical Method Development and Validation of
Rosuvastatin and Ezetimibe in Pharmaceutical
Formulation**

THESIS

Submitted in partial fulfilment of the requirement for Degree of

MASTER OF PHARMACY

IN

PHARMACEUTICAL CHEMISTRY

In the Faculty of Science and Technology

Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur

Submitted by

Himanshu S. Gauri

B. Pharm.

Research Guide

Dr. (Mrs.) Manjusha P. Yeole

M. Pharm., Ph.D.



*Examined
Mrs
3.8.2022*



**PRIYADARSHINI J. L. COLLEGE OF PHARMACY
ELECTRONIC ZONE, MIDC, HINGNA ROAD,
NAGPUR- 440016**

2021-2022



LOKMANYA TILAK JANKALYAN SHIKSHAN SANSTHA'S

PRIYADARSHINI J. L. COLLEGE OF PHARMACY

(Formerly called J. L. Chaturvedi College of Pharmacy)

Electronics Zone Building, MIDC, Hingna Road, Nagpur-440016 (M.S.)

Tel. & Fax No. +91-7104-299510, E-mail: jleep_ngp@rediffmail.com, Website: www.pjcp.edu.in

(Approved By AICTE & DTE, New Delhi, Affiliated to R.T.M. Nagpur University Nagpur)

ACCREDITED WITH GRADE B++ BY NAAC

Dr. D. R. Chaple
M. Pharm., Ph.D.
Principal and Professor

CERTIFICATE

This is to certify that the work investigation described in this thesis, entitled "**Analytical Method Development and Validation of Rosuvastatin and Ezetimibe in Pharmaceutical Formulation**" submitted in partial fulfillment of requirement for degree of **Master of Pharmacy in Pharmaceutical Chemistry**, in the Faculty of Science and Technology, **Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur**. The work is original as far as my knowledge is concerned and not imitated from anywhere. This work has been carried out in laboratories of the Priyadarshini J. L. College of Pharmacy, Nagpur, by **Mr. Himanshu S. Gauri** under guidance of **Dr. (Mrs.) Manjusha P. Yeole** Assistant Professor, Priyadarshini J. L. College of Pharmacy, Nagpur.

This thesis is now ready for examination.

Place: Nagpur

Date: 4/07/2022

Dr. D. R. Chaple

(Principal)

PRINCIPAL

**Priyadarshini J. L. College of
Pharmacy, Nagpur.**

**Synthesis, Physicochemical Characterizations and
Biological Evaluations of N₁ Substituted
Sulphonamide Derivatives**

A DISSERTATION

Submitted in Partial Fulfillment of the Requirement for the Degree of

**Master of Pharmacy
In
Pharmaceutical Chemistry**

In the Faculty of Science and Technology

Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur

Submitted By
Ms. Aditi S. Lokhande
(B.Pharm)

Guide
Dr. D. P. Kawade
(M. Pharm, Ph.D)



Priyadarshini J. L. College of Pharmacy,
Electronic Zone Building, M.I.D.C., Hingna Road, Nagpur-440016
2021-2022



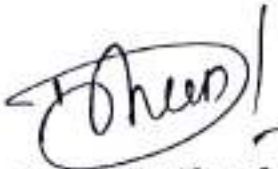
Dr. D. R. Chaple
M. Pharm, Ph.D.
Principal,
Priyadarshini J. L. College of Pharmacy,
Nagpur.

CERTIFICATE

This is to certify that the investigations described in this dissertation, entitled **"SYNTHESIS, PHYSICOCHEMICAL CHARACTERIZATIONS AND BIOLOGICAL EVALUATIONS OF NI SUBSTITUTED SULPHONAMIDE DERIVATIVES"** is submitted in partial fulfillment for the Degree of Master in Pharmaceutical Chemistry, in the faculty of Science and Technology, Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur. This work is original as far as my knowledge is concerned and not imitated from anywhere. This work has been carried out in laboratories of the Priyadarshini J. L. College Pharmacy, Nagpur by Ms. Aditi S. Lokhande, under the guidance and supervision of Dr. D. P. Kawade, Associate Professor, Pharmaceutical Chemistry Department at Priyadarshini J. L. College of Pharmacy, Nagpur.

This dissertation is now ready for examination.

Date: 14/07/2022
Place: Nagpur


Dr. D. R. Chaple
(Principal)
PRINCIPAL
Priyadarshini J. L. College of
Pharmacy, Nagpur.

**Synthesis, Characterization and Computational
Studies of Chalcone Derivatives for the
Management of Cardiovascular Risk Factors**

THESIS

Submitted in partial fulfilment of requirement for the degree of

MASTER OF PHARMACY

IN

PHARMACEUTICAL CHEMISTRY

In the Faculty of Science and Technology

Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur.

By

Puja K. Badne
B.Pharm.



Guide

Dr. Dinesh R. Chaple
M.Pharm., Ph.D.



PRIYADARSHINI J. L. COLLEGE OF PHARMACY
Electronic Zone Building, MIDC, Hingna Road, Nagpur-440016

2021-2022



**LOKMANYA TILAK JANKALYAN SHIKSHAN SANSTHA'S
PRIYADARSHINI J.L. COLLEGE OF PHARMACY**

(Formerly called: J.L. Chaturvedi College of Pharmacy)

Electronic Zone Building, MIDC, Hingna Road, Nagpur-440016 (M.S.)

Tel. & Fax No. +91-7104-299510, E-mail: principal@pjlcpt.edu.in website: www.pjlcpt.edu.in

(Approved By AICTE & DTE, New Delhi; (Naac Accredited) Accredited to R.T.M. Nagpur University Nagpur)

Dr. D. R. Chaple

M. Pharm., Ph.D.

Principal and Professor

Priyadarshini J. L. college of pharmacy

Nagpur

CERTIFICATE

This is to certify that the work investigations described in this thesis, entitled "**Synthesis, Characterization and Computational Studies of Chalcone Derivatives for the Management of Cardiovascular Risk Factors**" submitted in partial fulfilment of requirement for degree of Master of Pharmacy in Pharmaceutical Chemistry, in the Faculty of Science and Technology, Rashtasant Tukadoji Maharaj Nagpur University, Nagpur. The work is original as far as my knowledge is concerned and not imitated from anywhere. This work has been carried out in laboratories of the Priyadarshini J. L. College of Pharmacy, Nagpur, by **Ms. Puja. K. Badne** under my guidance and to my satisfaction.

The thesis is now ready for examination.

Place: Nagpur

Date: 14/07/2022

Dr. D. R. Chaple
(Research guide)

PRINCIPAL
Priyadarshini J. L. College of
Pharmacy, Nagpur

**Analytical Method Development and Validation of Tapentadol
Hydrochloride and Carisoprodol in Bulk and Marketed
Formulation**

THESIS

Submitted in partial fulfilment of requirement for Degree of

MASTER OF PHARMACY

IN

PHARMACEUTICAL CHEMISTRY

In the Faculty of Science and Technology

Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur.

By

Sachin S. Padole

B. Pharm

Guide

Dr. D. R. Chaple

M. Pharm, Ph.D.



**PRIYADARSHINI J. L. COLLEGE OF PHARMACY,
ELECTRONIC ZONE BUILDING, MIDC, HINGNA ROAD
NAGPUR-440016**

2021-2022



LOKMANYA TILAK JANKALYAN SHIKSHAN SANSTHAN

PRYADARSHINI J. L. COLLEGE OF PHARMACY

(Formerly called J. L. Chaturvedi College of Pharmacy)

Electronics Zone Building, MIDC, Hingna Road, Nagpur-440010 (M.R.)

Tel & Fax No. 091-2104-299310, E-mail: jlecp.nagpur@rediffmail.com Website: WWW.jlecp.edu.in

(Approved by AICTE & DUE, New Delhi. (NAAC Accredited) Affiliated to J. L. M. Nagpur University Nagpur)

Dr. D. R. Chaple

M. Pharm, Ph.D.

Principal and Professor

CERTIFICATE

This is to certify that the work investigations described in this thesis, entitled **“Analytical Method Development and Validation of Tapentadol Hydrochloride and Carisoprodol in Bulk and Marketed Formulation”** submitted in partial fulfilment of requirement for degree of Master of Pharmacy in Pharmaceutical Chemistry, in the faculty of Science and Technology, Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur. The work is original as far as my knowledge is concerned and not imitated from anywhere. This work has been carried out in laboratories of the Priyadarshini J. L. College of Pharmacy, Nagpur, by **Mr. Sachin S. Padole** under my guidance and to my satisfaction.

This thesis is now ready for examination.

Place: Nagpur

Date: 14/07/2022

Dr. D. R. Chaple

(Principal & Guide)

PRINCIPAL
Priyadarshini J. L. College of
Pharmacy, Nagpur.

Analytical Method Development and Validation of Ticagrelor and Aspirin by QbD Approach in Pharmaceutical Dosage Form

Thesis

Submitted in partial fulfilment of requirement for the degree of

MASTER OF PHARMACY

IN

PHARMACEUTICAL CHEMISTRY

In the Faculty of Science and Technology

Rashtrasant Tukdoji Maharaj Nagpur University, Nagpur

SUBMITTED BY

Soumya G. Katre

(B. Pharm)



RESEARCH GUIDE

Dr. (Mrs) M.P. Yeole

(M. Pharm, Ph. D)

*Examined
Prof. M.P. Yeole
3.8.2022*



Priyadarshini J. L. College of Pharmacy,

Electronic Zone Building, MIDC, Hingna Road, Nagpur-440016

(2021-2022)



LOKMANYA TILAK JANKALYAN SHIKSHAN SANSTHA'S
PRIYADARSHINI J. L. COLLEGE OF PHARMACY

(Formerly called J. L. Chaturvedi College of Pharmacy)

Electronics Zone Building, MIDC, Hingna Road, Nagpur-440016 (M.S.)

Tel & Fax No. +91-7104-298510, E-mail: jleep_ngp@rediffmail.com Website: www.pjcp.edu.in

(Approved by AICTE & DTE, New Delhi, (Nac Affiliated) Affiliated to R. T. M. Nagpur University)

Dr. D. R. Chaple
M. Pharm., Ph.D.
Principal and Professor

CERTIFICATE

This is to certify that the work investigations described in this thesis, entitled "**Analytical Method Development and Validation of Ticagrelor and Aspirin by QbD Approach in Pharmaceutical Dosage Form**" submitted in partial fulfillment of requirement for degree of Master of Pharmacy in Pharmaceutical Chemistry, in the Faculty of Science and Technology, Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur. The work is original as far as my knowledge is concerned and not imitated from anywhere. This work has been carried out in laboratories of the Priyadarshini J. L. College of Pharmacy, Nagpur, by **Ms. Soumya G. Katre** under guidance of **Dr. (Mrs) Manjusha P. Yeole** Assistant Professor, Pharmaceutical Chemistry Department, Priyadarshini J. L. College of Pharmacy, Nagpur.

This thesis is now ready for examination.

Place: Nagpur

Date: 14/07/22

Dr. D. R. Chaple

(Principal)

Priyadarshini J. L. College of
Pharmacy, Nagpur.

**ANALYTICAL METHODS DEVELOPMENT AND
VALIDATION OF GLUCOSAMINE SULPHATE AND ITS
IMPURITIES BY USING AQbD APPROACH**

THESIS

Submitted in partial fulfilment of the requirement for Degree of

MASTER OF PHARMACY

IN

PHARMACEUTICAL CHEMISTRY

In the faculty of Science and Technology

Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur

By

Miss. Kanchan T. Sawarkar

B. Pharm.

Research Guide

Dr. (Mrs.) Alpana J. Asnani

M. Pharm., Ph.D.



**PRIYADARSHINI J. L. COLLEGE OF PHARMACY
ELECTRONIC ZONE, MIDC, HINGNA ROAD,
NAGPUR- 440016**

2021-2022



LOKMANYA TILAK JANKALYAN SANSODHAN SANSTHA

PRIYADARSHINI J. L. COLLEGE OF PHARMACY

(Formerly called: J. L. Chaturvedi College of Pharmacy)

Electronics Zone Building, MIDC, Hingna Road, Nagpur-440016 (M.S.)

Tel. & Fax No. : +91-7104-290510, E-mail : college@priyadarshini.edu.in Website : www.priyadarshini.edu.in

(Approved By: AICTE & DTE, New Delhi, Affiliated to R.T.M. Nagpur University, Nagpur)

ACCREDITED WITH GRADE "B" BY NAAC

Dr. D. R. Chaple
M. Pharm., Ph.D.
Principal and Professor

CERTIFICATE

This is to certify that the work investigations described in this thesis, entitled "**Analytical Methods Development and Validation of Glucosamine Sulphate and its Impurities by Using AQBd Approach**" submitted in partial fulfilment of requirement for degree of Master of Pharmacy in Pharmaceutical Chemistry, in the faculty of Science and Technology, Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur. The work is original as far as my knowledge is concerned and not imitated from anywhere. This work has been carried out in laboratories of the Priyadarshini J. L. College of Pharmacy, Nagpur, by **Ms. Kanchan T. Sawarkar** under guidance of **Dr. (Mrs.) Alpna J. Asnani** Professor and Head of Pharmaceutical Chemistry Department, Priyadarshini J. L. College of Pharmacy, Nagpur.

This thesis is now ready for examination.

Place: Nagpur

Date: 14/07/2022

Dr. D. R. Chaple

(Principal)

PRINCIPAL
Priyadarshini J. L. College of
Pharmacy, Nagpur.

**Development and Validation of Analytical Methods for
Detection of Escitalopram Oxalate and its Impurities by
AQbD Approach**

THESIS

Submitted in partial fulfilment of the requirement for Degree of

MASTER OF PHARMACY

IN

PHARMACEUTICAL CHEMISTRY

In the faculty of Science and Technology

Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur

By

Ms. Jaya S. Ikhar

B. Pharm.

Guide

Dr. (Mrs.) Alpana J. Asnani

M. Pharm., Ph.D.



**Priyadarshini J. L. College Of Pharmacy
Electronic Zone, Midc, Hingna Road,
Nagpur- 440016**

2021-2022



LOKMANYA TILAK JANKALYAN SHIKSHAN SANSTHA'S
PRIYADARSHINI J. L. COLLEGE OF PHARMACY

(Formerly called: J. L. Chaturvedi College of Pharmacy)

Electronics Zone Building, MIDC, Hingna Road, Nagpur-440016 (M.S.)

Tel. Fax No. +91-7164-242169 E-mail: pcp@pcp.ac.in Website: www.pcpl.ac.in
(Approved By ABCTE & New Delhi; Affiliated to R.T.M. Nagpur University Nagpur)

Dr. D. R. Chaple
M. Pharm., Ph.D.
Principal and Professor

CERTIFICATE

This is to certify that the work investigations described in this thesis, entitled "**Development and Validation of Analytical Methods for Detection of Escitalopram Oxalate and its Impurities by Analytical Quality by Design Approach**" submitted in partial fulfillment of requirement for degree of Master of Pharmacy in Pharmaceutical Chemistry, in the faculty of Science and Technology, Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur. The work is original as far as my knowledge is concerned and not imitated from anywhere. This work has been carried out in laboratories of the Priyadarshini J. L. College of Pharmacy, Nagpur, by Ms. Jaya S. Ikhari under guidance of Dr. (Mrs.) Alpana J. Asnani Professor and Head of Pharmaceutical Chemistry Department, Priyadarshini J. L. College of Pharmacy, Nagpur.

This thesis is now ready for examination.

Place: Nagpur

Date: 14/07/2022

Dr. D. R. Chaple

(Principal)

PRINCIPAL
Priyadarshini J. L. College of
Pharmacy, Nagpur.

**One Pot Synthesis and Biological Evaluation of Some
Pyrano[2,3-c]pyrazole Derivatives Using ZnO
Nanoparticles as Catalyst**

THESIS

Submitted in partial fulfillment of requirement for the Degree of

MASTER OF PHARMACY

IN

PHARMACEUTICAL CHEMISTRY

In the faculty of Science and Technology

Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur.

By

Ashwini G. Bhope

B. Pharm

Guide

Dr. (Mrs.) Alpana J. Asnani

M. Pharm., Ph.D.



PRIYADARSHINI J. L. COLLEGE OF PHARMACY

ELECTRONIC ZONE BUILDING MIDC, HINGNA ROAD, NAGPUR- 440016

2021-2022



LUXMANYA TR. AR. TANUKAL / 1/1/1/2022/2022/2022/2022
PRIYADARSHINI J. L. COLLEGE OF PHARMACY

(Formerly called: J. L. Government College of Pharmacy)

Electronic Zone Building MIDC, Nagpur Road, Nagpur 440014 (M.S.)

Tel. Fax No. 91-7104-277514 E-mail: pcpnagpur@rediffmail.com, www.pcpnagpur.edu

(Approved By AICTE & State Govt. Affiliated to P. U. Nagpur University Nagpur)

ACCREDITED WITH GRADE 'B' BY UGC.

Dr. D. R. Chaple,
M. Pharm, Ph.D.,
Principal and Professor,
Priyadarshini J. L. College of Pharmacy,
Nagpur.

CERTIFICATE

This is to certify that the work investigations described in this thesis, entitled "One Pot Synthesis and Biological Evaluation of Some Pyrazolo[2,3-c]pyrazole Derivatives Using ZnO Nanoparticles as Catalyst" submitted in partial fulfilment of requirement for degree of Master of Pharmacy in Pharmaceutical Chemistry, in the faculty of Science and Technology, Rasthuvant Tukadoji Maharaj Nagpur University, Nagpur. The work is original as far as my knowledge concerned and not imitated from anywhere. This work has been carried out in laboratories of the Priyadarshini J. L. College of Pharmacy, Nagpur, by Ms. Ashwini G. Bhoje under guidance of Dr. (Mrs.) A. J. Asrani Professor and Head of Pharmaceutical Chemistry Department, Priyadarshini J. L. College of Pharmacy, Nagpur.

This thesis is now ready for examination.

Place: Nagpur

Date: 14/07/2022

Dr. D. R. Chaple

(Principal)

PRINCIPAL

Priyadarshini J. L. College of
Pharmacy, Nagpur.

**Design, Synthesis and Computational
Mechanistic Study of 1,3-thiazole Derivatives to
Constraint Cardiovascular Risk Factors**

THESIS

Submitted in partial fulfillment of requirement for Degree of

MASTER OF PHARMACY

IN

PHARMACEUTICAL CHEMISTRY

In the Faculty of Science and Technology

Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur

By

Ms. Samruddhi S. Khonde

B. Pharm

Guide

Dr. Dinesh R. Chaple

M. Pharm, Ph.D.



PRIYADARSHINI J. L. COLLEGE OF PHARMACY
ELECTRONIC ZONE BUILDING, MIDC HINGNA ROAD,
NAGPUR- 440016

2021-2022



LOKMANYA TILAK JANKALYAN SHIKSHANSANSTHA'S

PRIYADARSHINI J. L. COLLEGE OF PHARMACY

(Formerly called: J. L. Chaturvedi College of Pharmacy)

Electronics Zone Building, MIDC, Hingna Road, Nagpur-440016 (M.S.)

Tel. & Fax No. 091-071041 - 209510, E-mail: principal@pjlep.edu.in Website: www.pjlep.edu.in
(Approved By ARCS & DDU, New Delhi, (NAAC) Affiliated to B. T. M. Nagpur University Nagpur)

Dr. D. R. Chaple

M. Pharm, Ph.D.

Professor and Principal

Priyadarshini J. L. College of Pharmacy,

Nagpur

CERTIFICATE

This is to certify that the work investigations described in this thesis, entitled "**Design, Synthesis and Computational Mechanistic Study of 1,3-thiazole Derivatives to Constraint Cardiovascular Risk Factors**" submitted partial fulfillment of requirement for degree of Master of Pharmacy in Pharmaceutical Chemistry, in the faculty of Science and Technology, Rashtasant Tukadoji Maharaj Nagpur University, Nagpur. The work is original as far as my knowledge concerned and not imitated from anywhere. This work has been carried out in laboratories of the Priyadarshini J. L. College of Pharmacy, Nagpur, by **Ms. Samruddhi S. Khonde** under my guidance.

This thesis is now ready for examination.

Place: Nagpur

Date: 20/07/2021

Dr. D. R. Chaple

Principal & Guide

PRINCIPAL

**Priyadarshini J. L. College of
Pharmacy, Nagpur.**

**Novel Analytical Methods Development for Sildenafil Citrate and
Dapoxetine Hydrochloride in Bulk, Pharmaceutical Formulation and
Biological Fluid**

THESIS

Submitted in partial fulfilment of requirement for Degree of

MASTER OF PHARMACY

IN

PHARMACEUTICAL CHEMISTRY

In the Faculty of Science and Technology

Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur.

By

Ashish S. Moghe

B. Pharm

Guide

Dr. D. R. Chaple

M. Pharm, Ph.D.



**PRIYADARSHINI J. L. COLLEGE OF PHARMACY,
ELECTRONIC ZONE BUILDING, MIDC, HINGNA ROAD**

NAGPUR-440016

2021-2022

**FORMULATION AND EVALUATION OF HERBAL
GRANULES FOR IMMUNOBOOSTER POTENTIAL
IN COMPARISON WITH AYUSH KADHA**

THESIS

Submitted in Partial Fulfillment of Requirements for the Degree of
MASTER OF PHARMACY

IN

PHARMACOGNOSY

In the Faculty of Science and Technology

Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur

Submitted By

Shubham P. Bhute

(B. Pharm)

Research Guide

Dr. Vijay D. Gulkari

(M. Pharm, Ph.D.)



**PRIYADARSHINI J. L. COLLEGE OF PHARMACY
ELECTRONIC ZONE BUILDING, MIDC, HINGNA ROAD,
NAGPUR-440016**

(2021-2022)

Priyadarshini J. L. College of Pharmacy,
Rashtrasant Tukadoji Maharaj, Nagpur University, Nagpur.
2021-2022



Dr. Dinesh. R. Chaple
(M. Pharm., Ph.D.)
Principal
Priyadarshini J.L. College of Pharmacy,
Nagpur- 440016.

CERTIFICATE

This is to certify that the work investigation described in this dissertation entitled, "**Formulation and Evaluation of Herbal Granules for Immunobooster Potential in Comparision with Ayush Kadha**", is submitted in the partial fulfillment of the degree of **Master of Pharmacy in Pharmacognosy**, in the faculty of Science and Technology, **Rashtrasant Tukadoji Maharaj, Nagpur University, Nagpur**. This work has not been carried out in any other university. This work has been carried out in laboratories of Priyadarshini J. L. College of Pharmacy, Nagpur by **Shubham Pralhad Bhute**, under the guidance supervision of **Dr. Vijay D. Gulkari**, Priyadarshini J. L. College of Pharmacy, Nagpur.

This dissertation is now ready for examination.

Place: Nagpur

Date: 30/07/2022

Dr. Dinesh. R. Chaple
(Principal)

PRINCIPAL
Priyadarshini J. L. College of
Pharmacy, Nagpur

Preparation and Standardization of Different Triphala Formulations

THESIS

Submitted in Partial Fulfillment of Requirements for the Degree of
MASTER OF PHARMACY

IN

PHARMACOGNOSY

In the Faculty of Science and Technology

Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur

Submitted By

MS. Sharvari P. Naikwade

(B. Pharm)

Research Supervisor

Mrs. Shailju G. Gurunani

(M. Pharm)



PRIYADARSHINI J. L. COLLEGE OF PHARMACY
ELECTRONIC ZONE BUILDING, MIDC, HINGNA ROAD,

NAGPUR-440016

(2021-2022)

Priyadarshini J. L. College of Pharmacy,
Rashtrasant Tukadoji Maharaj, Nagpur University, Nagpur.
2021-2022



Dr. Dinesh. R. Chaple
(M. Pharm., Ph. D.)
Principal
Priyadarshini J.L., College of Pharmacy,
Nagpur- 440016.

CERTIFICATE

This is to certify that the work investigation described in this dissertation entitled, "**Preparation and Standardization of Different Triphala Formulations**", is submitted in the partial fulfillment of the degree of **Master of Pharmacy in Pharmacognosy**, in the faculty of Science and Technology, **Rashtrasant Tukadoji Maharaj, Nagpur University, Nagpur**. This work has not been carried out in any other university. This work has been carried out in laboratories of Priyadarshini J. L. College of Pharmacy, Nagpur by **Ms. Sharvari P. Nalkwade**, under the guidance and supervision of **Mrs. S. G. Gurunani**

This dissertation is now ready for examination.

Place: Nagpur

Date: 20/07/2022

Dr. Dinesh. R. Chaple
(Principal)

PRINCIPAL

Priyadarshini J. L. College of
Pharmacy, Nagpur.

STANDARDIZATION OF *NIGELLA SATIVA* HOMEOPATHIC MOTHER TINCTURE

THESIS

SUBMITTED TO

Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur.

In Partial Fulfillment of Requirements for the Degree of

MASTER OF PHARMACY

IN

PHARMACOGNOSY

Submitted by

Ms. Puja O. Dahikar

(B. Pharm)

Under the guidance of

Mrs. Shailju G. Gurunani

(M. Pharm)



PRIYADARSHINI J. L. COLLEGE OF PHARMACY,

ELECTRONIC ZONE, BUILDING, MIDC, HINGNA ROAD, NAGPUR-440016

(2021-2022)

Priyadarshini J. L. College of Pharmacy,
Rashtrasant Tukadoji Maharaj, Nagpur University, Nagpur.
2021-2022



Dr. Dinesh R. Chaple
(M. Pharm., Ph. D.)
Principal
Priyadarshini J.L. College of Pharmacy,
Nagpur-440016.

CERTIFICATE

This is to certify that the work investigation described in this dissertation entitled, “**Standardization of *Nigella Sativa* Homeopathic Mother Tincture**”, is submitted in the partial fulfillment of the degree of **Master of Pharmacy in Pharmacognosy**, in the faculty of Science and Technology, **Rashtrasant Tukadoji Maharaj, Nagpur University, Nagpur**. This work has not been carried out in any other university. This work has been carried out in laboratories of Priyadarshini J. L. College of Pharmacy, Nagpur by **Ms. Puja O. Dahikar**, under the guidance and supervision of **Mrs. S. G. Gurunani**

This dissertation is now ready for examination.

Place: Nagpur

Date: 29/07/2022


Dr. Dinesh R. Chaple

(Principal)
PRINCIPAL
Priyadarshini J. L. College of
Pharmacy, Nagpur.

**FORMULATION AND EVALUATION OF
NIGELLA SATIVA SEED OIL EMULGEL PEEL
OFF FACE MASK**

THESIS

Submitted in partial fulfilment of Requirements for Degree of

MASTER OF PHARMACY

IN

PHARMACOGNOSY

In the Faculty of Science and Technology

Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur.

Submitted by

Ms. Monu Y. Hedao

(B. Pharm)



Research Guide

Mrs. Shailju G. Gurunani

(M. Pharm)



PRIYADARSHINI J. L. COLLEGE OF PHARMACY,

ELECTRONIC ZONE, MIDC, HINGNA ROAD, NAGPUR-16.

2021-2022

PRIYADARSHINI J. L. COLLEGE OF PHARMACY,

ELECTRONIC ZONE, MIDC, HINGNA ROAD, NAGPUR-16.

2021-2022



Dr. Dinesh R. Chaple

(M. Pharm., Ph. D.)

Principal

Priyadarshini J. L. College of Pharmacy,
Nagpur- 440016.

CERTIFICATE

This is to certify that the work investigation described in this dissertation entitled, "**Formulation and Evaluation of *Nigella Sativa* seed oil Emulgel Peel off Face Mask**", is submitted in the partial fulfillment of the degree of **Master of Pharmacy in Pharmacognosy**, in the faculty of Science and Technology, **Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur**. This work has been carried out in laboratories of Priyadarshini J. L. College of Pharmacy, Nagpur by **Ms. Monu Y. Hedao**, under the guidance and supervision of **Mrs. S. G. Gurunani**, Assistant Professor, Priyadarshini J. L. College of Pharmacy, Nagpur.

This dissertation is now ready for examination.

Place: Nagpur

Date: 27/07/2022

Dr. Dinesh R. Chaple
(Principal)

Priyadarshini J. L. College of
Pharmacy, Nagpur

Microbiological Qualification of Pre-filled Syringe line Isolator

Thesis

Submitted in partial fulfilment of requirements for Degree of

MASTER OF PHARMACY

IN

PHARMACEUTICS

In the Faculty of Science and Technology

Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur.

Submitted By

Ms. Rani. V. Sutone

(B. Pharm.)

Research Guide

Dr. Mrs. Suparna. S. Bakhle

(M. Pharm., Ph. D)



**PRIYADARSHINI J. L. COLLEGE OF PHARMACY,
ELECTRONIC ZONE, MIDC, HINGNA ROAD, NAGPUR- 440016
2021-2022**



Priyadarshini J. L. College of Pharmacy,
Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur-440016
2021-2022



Dr. D. R. Chaple
Principal
Priyadarshini J. L. College of Pharmacy
Nagpur- 440016

CERTIFICATE

This is to certify that the work investigation described in this dissertation, entitled "**Microbiological Qualification of Pre-filled syringe line Isolator**", is submitted in the partial fulfilment of the requirement for the degree of **Master of Pharmacy in Pharmaceutics**, in the faculty of Medicine, **Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur**. This work is original as far as my knowledge is concerned and not imitated from anywhere. This work has been carried out in the **Injectable Validation** department of **Lupin Pharmaceutical LTD, Nagpur** by **Ms. Rani Vijay Sutone**, under the guidance supervision of **Dr. Suparna. S. Bakhle**, Priyadarshini J. L. College of Pharmacy, Nagpur.

This dissertation is now ready for examination.

Place: Nagpur

Date: 21/7/2022

Dr. D. R. Chaple
(Principal)
PRINCIPAL

Priyadarshini J. L. College of
Pharmacy, Nagpur.

**ENHANCEMENT OF SOLUBILITY OF POORLY
WATER-SOLUBLE DRUG USING COMPLEXOL.**

A DISSERTATION

Submitted In Partial Fulfillment of the Requirement for the Degree Of

MASTER OF PHARMACY

IN

PHARMACEUTICS

In the faculty of Science & Technology,

Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur.

Submitted By

**Ms. Ankita G. Jaunjal
(B. Pharm.)**

Research Guide

**Dr. Mrs. S. S. Bakhle
(M. Pharm, Ph. D)**



**PRIYADARSHINI J. L. COLLEGE OF PHARMACY,
ELECTRONIC ZONE BUILDING, MIDC, HINGNA ROAD, NAGPUR- 440016**

2021-2022



Priyadarshini J. L. College of Pharmacy
Electronic Zone Building, MIDC, Hingna Road, Nagpur- 440016

Dr. D. R. Chaple
M. Pharm. Ph. D.
Principal
Priyadarshini J. L. College of
Pharmacy, Nagpur- 440016.

CERTIFICATE

This is to certify that the work investigation described in this thesis, entitled **“ENHANCEMENT OF SOLUBILITY OF POORLY WATER-SOLUBLE DRUG USING COMPLEXOL”** is submitted in the partial fulfillment of the requirement for the Degree of **Master of Pharmacy in Pharmaceutics** in the Faculty of Science & Technology, **Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur**. This work is original as far as my knowledge is concerned and not imitated from anywhere. This work has been carried out in Priyadarshini J. L. College of Pharmacy, Nagpur, by **Ms. Ankita G. Jaunjai**, under the guidance and supervision of **Dr. Mrs. S. S. Bakhle**, Priyadarshini J. L. College of Pharmacy, Nagpur.

This dissertation is now ready for examination.

Place: Nagpur

Date: 02/07/2022

Dr. D. R. Chaple

Principal

PRINCIPAL
Priyadarshini J. L. College of
Pharmacy, Nagpur.

**DEVELOPMENT AND CHARACTERIZATION OF SOLID SELF
MICRO EMULSIFYING DRUG DELIVERY SYSTEM (S-SMEDDS) FOR
IMPROVED ORAL DELIVERY OF POORLY SOLUBLE DRUG
A DISSERTATION**

Submitted in partial fulfillment of requirement for Degree of

MASTER OF PHARMACY

IN

PHARMACEUTICS

In the faculty of Science and Technology

Rashtrasant Tukadoji Maharaj, Nagpur University, Nagpur

Submitted By

Poonam Vishweshvar Kothe

(B.Pharm)

Guide

Dr. Mrs. S. S. Bakhle

(M.Pharm, Ph.D.)



**DEPARTMENT OF PHARMACEUTICS
PRIYADARSHINI J. L. COLLEGE OF PHARMACY
ELECTRONIC ZONE BUILDING, MIDC, HINGNA ROAD,
NAGPUR-440016
2021-2022**



Priyadarshini J. L. College of Pharmacy, Nagpur
ELECTRONIC ZONE BUILDING, MIDC, HINGNA ROAD,
NAGPUR-440016

Dr. D. R. Chaple
M. Pharm., Ph. D.
Principal
Priyadarshini J. L. College of Pharmacy,
Nagpur- 440016

CERTIFICATE

This is certify that the work investigation described in this dissertation entitled
**"DEVELOPMENT AND CHARACTERIZATION OF SOLID SELF
MICRO EMULSIFYING DRUG DELIVERY SYSTEM (S-SMEDDS) FOR
IMPROVED ORAL DELIVERY OF POORLY SOLUBLE DRUG"**

is submitted in the partial fulfillment of the requirement for the degree of **Master of
Pharmacy In Pharmaceutics**, in the faculty of Science and Technology, **Rashtrasant
Tukadoji Maharaj Nagpur University, Nagpur**. This work is original as far as my
knowledge is concerned and not imitated from anywhere. This work has been carried out in
laboratories of the **Priyadarshini J. L. College of Pharmacy, Nagpur**, by **Miss. Poonam V.
Kothe**, under the guidance and supervision of **Dr. Mrs. S. S. Bakhle**, **Priyadarshini J. L.
College of Pharmacy, Nagpur**.

This dissertation is now ready for examination.

Place: Nagpur

Date: 06/07/2022

Dr. D. R. Chaple

(Principal)

PRINCIPAL
Priyadarshini J. L. College of
Pharmacy, Nagpur.

**SOLUBILITY AND DISSOLUTION ENHANCEMENT OF POORLY
WATER SOLUBLE DRUG BY CO-CRYSTALLIZATION**

A DISSERTATION

Submitted for the approval of thesis in partial fulfilment of requirements for
Degree of

MASTER OF PHARMACY

IN

PHARMACEUTICS

In the Faculty of Science and Technology

Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur

Submitted by
Vishal C. Ramteke
(B. Pharm)

Research Guide
Dr. Mrs. Suparna S. Bakhle
(M. Pharm, Ph. D)



PRIYADARSHINI J. L. COLLEGE OF PHARMACY

ELECTRONIC ZONE BUILDING, MIDC, HINGNA ROAD, NAGPUR- 440016

2021-2022



PRIYADARSHINI J. L. COLLEGE OF PHARMACY

Electronic Zone Building, MIDC, Hingna Road,
Nagpur- 440016

Dr. D. R. Chaple

M. Pharm. Ph. D

Principal

Priyadarshini J. L. College of Pharmacy,

Nagpur- 440016.

CERTIFICATE

This is certify that the work investigation described in this dissertation entitled "SOLUBILITY AND DISSOLUTION ENHANCEMENT OF POORLY WATER SOLUBLE DRUG BY CO-CRYSTALLIZATION" is submitted in the partial fulfilment of the requirement for the degree of **Master of Pharmacy in Pharmaceutics**, in the faculty of science and Technology, **Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur**. This work is original as far as my knowledge is concerned and not imitated from anywhere. This work has been carried out in laboratories of the Priyadarshini J. L. College of Pharmacy, Nagpur, by **Mr. Vishal C. Ramteke** under the guidance and supervision of **Dr. Suparna S. Bakhle**, Priyadarshini J. L. College of Pharmacy, Nagpur.

This dissertation is now ready for examination.

Place: Nagpur

Date: 12/07/2022

Dr. D. R. Chaple

(Principal)

PRINCIPAL

**Priyadarshini J. L. College of
Pharmacy, Nagpur.**

PHARMACOGNOSTICAL EVALUATION OF *URARIA PICTA*, *URARIA LAGOPOIDES* AND *PSEUDARTHRIA VISCIDA* AS PER WHO GUIDELINES

Submitted for the approval of thesis in partial fulfillment of
Requirements for the Degree of
MASTER OF PHARMACY
IN
PHARMACOGNOSY
In the Faculty of Science and Technology,
Rashtrasant Tukadoji Maharaj, Nagpur University, Nagpur.

Submitted By
Disha A. Mool
(B. Pharm)

Research Guide
Dr. Vijay D. Gulkari
(M. Pharm, Ph. D)



**PRIYADARSHINI J.L COLLEGE OF PHARMACY,
ELECTRONIC ZONE BUILDING, MIDC, HINGNA ROAD, NAGPUR
2021- 22**



Priyadarshini J. L. College of Pharmacy,
Rashtrasant Tukadoji Maharaj, Nagpur University, Nagpur
2021- 22



Dr. D. R. Chaple
Principal
Priyadarshini J. L. College Of Pharmacy
Nagpur-440016.

CERTIFICATE

This is to certify that the work investigation described in this dissertation, entitled "Pharmacognostical evaluation of *Uraria picta*, *Uraria lagopoides* and *Pseudarthra viscida* as per WHO guidelines", is submitted in the partial fulfillment of the requirement for the degree of Master of Pharmacy in Pharmacognosy, in the faculty of Medicine, **Rashtrasant Tukadoji Maharaj, Nagpur University, Nagpur**. This work is original as far as my knowledge is concerned and not imitated from anywhere. This work has been carried out in laboratories of the Priyadarshini J. L. College of Pharmacy, Nagpur by **Disha A. Mool**, under the guidance and supervision of Dr. Vijay D. Gulkari, Priyadarshini J. L. College of Pharmacy, Nagpur.

This dissertation is now ready for examination.

Place: Nagpur

Date: 01/08/2022

Dr. D. R. Chaple

(Principal)
PRINCIPAL
Priyadarshini J. L. College of
Pharmacy, Nagpur.

**SOLUBILITY ENHANCEMENT OF POORLY WATER-SOLUBLE DRUG BY
HOT MELT EXTRUSION USING HYDROPHILIC POLYMER**

A DISSERTATION

Submitted for the approval of thesis in partial fulfillment of requirements for Degree of

**MASTER OF PHARMACY
IN
PHARMACEUTICS**

**In the Faculty of Science and Technology
Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur**

**Submitted By
Nikhil P. Nahokar
(B. Pharm)**

**Research Guide
Dr. Mrs. G. R. Dixit
(M. Pharm., Ph. D)**



**PRIYADARSHINI J. L. COLLEGE OF PHARMACY
ELECTRONIC ZONE BUILDING, MIDC, HINGNA ROAD, NAGPUR- 440016
2021-2022**



PRIYADARSHINI J. L. COLLEGE OF PHARMACY
Electronic Zone Building, MIDC, Hingna Road, Nagpur- 440016
2021-2022

Dr. D. R. Chaple
Principal,
M. Pharm., Ph. D.,
Priyadarshini J. L. College of Pharmacy,
Nagpur- 440016.

CERTIFICATE

This is to certify that the work investigation described in this dissertation entitled "SOLUBILITY ENHANCEMENT OF POORLY WATER-SOLUBLE DRUG BY HOT MELT EXTRUSION USING HYDROPHILIC POLYMER" is submitted in the partial fulfilment of the requirement for the degree of **Master of Pharmacy in Pharmaceutics**, in the faculty of science and Technology, **Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur**. This work is original as far as my knowledge is concerned and not imitated from anywhere. This work has been carried out in laboratories of the Priyadarshini J. L. College of Pharmacy, Nagpur, by **Nikhil P. Nahokar**, under the guidance and supervision of **Dr. G. R. Dixit**, Priyadarshini J. L. College of Pharmacy, Nagpur.

This dissertation is now ready for examination.

Place: Nagpur

Date: 14/07/2022

Dr. D. R. Chaple

(Principal)
PRINCIPAL
Priyadarshini J. L. College of
Pharmacy, Nagpur.

**FORMULATION DEVELOPMENT AND EVALUATION OF SUSTAINED
RELEASE TABLET OF POORLY WATER SOLUBLE DRUG**

A DISSERTATION

Submitted for the approval of thesis in partial fulfilment of requirements

For Degree of

MASTER OF PHARMACY

IN

PHARMACEUTICS

In the Faculty of Science and Technology

Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur

Submitted By
Sachin K. Takras
(B. Pharm)

Research Guide
Dr. Mrs. G. R. Dixit
(M. Pharm., Ph. D)



PRIYADARSHINI J. L. COLLEGE OF PHARMACY
ELECTRONIC ZONE BUILDING, MIDC, HINGNA ROAD, NAGPUR- 440016

2021-2022



PRIYADARSHINI J. L. COLLEGE OF PHARMACY
Electronic Zone Building, MIDC, Hingna Road, Nagpur- 440016

2021-2022

Dr. D. R. Chaple
Principal,
M. Pharm., Ph. D
Priyadarshini J. L. College of Pharmacy,
Nagpur- 440016.

Certificate

This is to certify that the work investigation described in this dissertation entitled "FORMULATION DEVELOPMENT AND EVALUATION OF SUSTAINED RELEASE TABLET OF POORLY WATER SOLUBLE DRUG" is submitted in the partial fulfilment of the requirement for the degree of **Master of Pharmacy in Pharmaceutics**, in the faculty of science and Technology, **Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur**. This work is original as far as my knowledge is concerned and not imitated from anywhere. This work has been carried out in laboratories of the M.J. Biophrama Pvt. Ltd. Navi Mumbai, by **Sachin K. Takras**, under the guidance and supervision of **Dr. G. R. Dixit**, Priyadarshini J. L. College of Pharmacy, Nagpur.

This dissertation is now ready for examination.

Place: Nagpur

Date: 20/07/2022

Dr. D. R. Chaple

(Principal)

PRINCIPAL

Priyadarshini J. L. College of
Pharmacy, Nagpur.

**FORMULATION AND EVALUATION OF PARENTERAL
PREPARATION CONTAINING POORLY WATER SOLUBLE DRUG**

A DISSERTATION

Submitted for the approval of thesis in partial fulfillment of requirements for Degree
of

MASTER OF PHARMACY

IN

PHARMACEUTICS

*In the Faculty of Science and Technology Rashtrasant Tukadoji Maharaj
Nagpur University, Nagpur*

Submitted By
Pranjali A. Mokashi
(B. Pharm)

Research Guide
Dr. Mrs. G. R. Dixit
(M. Pharm, Ph. D)



PRIYADARSHINI J. L. COLLEGE OF PHARMACY
ELECTRONIC ZONE BUILDING, MIDC, HINGNA ROAD, NAGPUR- 440016

2021-2022



PRIYADARSHINI J. L. COLLEGE OF PHARMACY

Electronic Zone Building, MIDC, Hingna Road, Nagpur- 440016

Dr. D. R. Chaple

Principal,

M. Pharm. Ph. D

Priyadarshini J. L. College of Pharmacy, Nagpur- 440016.

CERTIFICATE

This is certify that the work investigation described in this dissertation entitled **"FORMULATION AND EVALUATION OF PARENTERAL PREPARATION CONTAINING POORLY WATER SOLUBLE DRUG"** is submitted in the partial fulfillment of the requirement for the degree of **Master of Pharmacy in Pharmaceutics**, in the faculty of science and technology, **Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur**. This work is original as far as my knowledge is concerned and not imitated from anywhere. This work has been carried out in laboratories of the Priyadarshini J. L. College of Pharmacy, Nagpur, and Genetek Life Science Pvt., Ltd (Injectable Division) Wardha, by **Pranjali A. Mokashi**, under the guidance and supervision of **Dr. Mrs. Gouri R. Dixit**, Priyadarshini J. L. College of Pharmacy, Nagpur.

This dissertation is now ready for examination.

Place: Nagpur

Date: 14/07/2022

Dr. D. R. Chaple

(Principal)

PRINCIPAL

**Priyadarshini J. L. College of
Pharmacy, Nagpur.**

FORMULATION AND EVALUATION OF HERBAL SCRUB AND FACE MASK

A Thesis

Submitted in partial fulfillment of requirements for Degree of

MASTER OF PHARMACY

IN

PHARMACOGNOSY

In the faculty of Science and Technology

Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur.

Submitted By

Apurva C. Somkuwar
(B. Pharm)

Research Guide

Dr. Vijay D. Gulkari
(M. Pharm, Ph. D)



PRIYADARSHINI I. L. COLLEGE OF PHARMACY,
ELECTRONIC ZONE, MIDC, HINGNA ROAD NAGPUR- 440016

2021-2022



Priyadarshini J. L. College of Pharmacy,
Rashtrasant Tukadoji Maharaj Nagpur university, Nagpur

2021-2022



Dr. D.R. Chaple
Principal
Priyadarshini J.L. College of Pharmacy
Nagpur- 440016.

Certificate

This is to certify that the work investigation described in this dissertation, entitled "Formulation And Evaluation Of Herbal Scrub And Face Mask", is submitted in the partial fulfillment of requirement for the degree of Master of Pharmacy in Pharmacognosy, in the faculty of Medicine, Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur. This work is original as far as my knowledge is concerned and not imitated from anywhere. This work has been carried out in laboratories of the Priyadarshini J. L. College of Pharmacy, Nagpur submitted by Apurva C. Somkuwar under the guidance supervision of Dr. Vijay D. Gulkari, Priyadarshani J.L. college of Pharmacy, Nagpur.

This dissertation is now ready for examination

Place: Nagpur

Date: - 01/08/2022

Dr. D.R. Chaple

(Principal)

PRINCIPAL
Priyadarshini J. L. College of
Pharmacy, Nagpur.

**PRECLINICAL INVESTIGATIONS OF NEW DRUG ENTITY
FOR ANTI-ALZHEIMER ACTIVITY**

A DISSERTATION

*Submitted in partial fulfilment of the requirement for the
Degree of*

**MASTER OF PHARMACY
IN
PHARMACOLOGY**

*In the faculty of Science and Technology Rashtrasant Tukadoji
Maharaj Nagpur University, Nagpur.*

Submitted by

Mr. Rohan R. Bansod

(B. Pharm)

Research guide

Dr. Shilpa Deshpande

(M. Pharm, Ph. D.)



Department of Pharmacology

Priyadarshini J. L. College of Pharmacy,

ELECTRONIC ZONE BUILDING, MIDC, HINGNA ROAD,

NAGPUR-440016

(2021-2022)

1



Dr. D. R. Chaple
M. Pharm, Ph D.
Principal,
Priyadarshini J. L. College of Pharmacy,
Nagpur.

CERTIFICATE

This is to certify that the investigations described in this dissertation, entitled "PRECLINICAL INVESTIGATIONS OF NEW DRUG ENTITY FOR ANTI-ALZHEIMER ACTIVITY" is submitted in partial fulfilment for the degree of Master of Pharmacy in Pharmacology, in faculty of Science and Technology, Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur. This work is original as far as my knowledge is concerned and not imitated from anywhere. This work had been carried out in laboratory of Priyadarshini J. L. College of Pharmacy, Nagpur, by Mr. Rohan R. Bansod, under the guidance and supervision of Dr Shilpa A. Deshpande, Associate professor, Priyadarshini J. L. College of Pharmacy, Nagpur

Date: 14/07/2022
Place: Nagpur

Dr D.R. Chaple
(Principal)
PRINCIPAL

Priyadarshini J. L. College of
Pharmacy, Nagpur.

**PHARMACOLOGICAL EVALUATION OF NOVEL
FORMULATION FOR ITS ROLE IN
NEURODEGENERATIVE DISORDER**

A Dissertation

Submitted for the approval of thesis in partial fulfillment of requirements for Degree of

MASTER OF PHARMACY

IN

PHARMACOLOGY

In the Faculty of Science and Technology

Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur

Submitted By

Miss. Sonali S. Hiranwar

(B.Pharm)

Research Guide

Dr. Shilpa A. Deshpande

(M. Pharm, Ph. D)



PRIYADARSHINI J.L COLLEGE OF PHARMACY
ELECTRONIC ZONE BUILDING, MIDC, HINGNA ROAD, NAGPUR-44016

2021-2022



Dr. D. R. Chaple
M.Pharm Ph.D.
Principal,
Priyadarshini J.L. College of Pharmacy
Nagpur-440016

CERTIFICATE

This is to certify that the investigations described in this dissertation, entitled
"PHARMACOLOGICAL EVALUATION OF NOVEL FORMULATION FOR ITS ROLE
***IN NEURODEGENERATIVE DISORDER**" is submitted in partial fulfillment for the*
degree of Master of Pharmacy in Pharmacology, in faculty of Science and
Technology, Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur. This
work is original as far as my knowledge is concerned and not imitated from
anywhere. This work had been carried out in laboratory of Priyadarshini
J.L.College of Pharmacy, Nagpur, by Miss. Sonali S. Hiranwar, under the
guidance and supervision of Dr.Shilpa A. Deshpande, Associate professor,
Priyadarshini J.L. College of Pharmacy, Nagpur

Date: 14/July/2022
Place: Nagpur

Dr D.R. Chaple
(Principal)

PRINCIPAL
Priyadarshini J. L. College of
Pharmacy, Nagpur

*Pharmacological Evaluation of Topical Formulation For
Antipsoriatic And Anihemorrhoidal Activity*

A DISSERTATION

*Submitted in partial fulfilment of the requirement for the Degree
of*

Master of Pharmacy

in

Pharmacology

*In the Faculty of Science & Technology Rashtrasant
Tukadoji Maharaj Nagpur University, Nagpur*

Submitted By

Mis. Roshani Prabhakar Sautkar

(B. Pharm)

Guide

Dr. (Mrs.) Shilpa A. Deshpande

(M. Pharm, Ph.D)



Department of Pharmacology

PRIYADARSHINI J. L. COLLEGE OF PHARMACY

ELECTRONIC ZONE, MIDC, HINGNA ROAD,

NAGPUR- 440016

2021-2022



Dr.D. R. Chaple
M.Pharm, Ph.D. Principal,
Priyadarshini J.L.College of
Pharmacy, Nagpur

Certificate

This is to certify that the investigations described in this dissertation, entitled "Pharmacological Evaluation of Topical Formulation for Anti-psoriatic and Antihemorrhoidal activity" is submitted in partial fulfillment for the degree of Master of Pharmacy in Pharmacology, in the faculty of Science and Technology, Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur. This work is original as far as my knowledge is concerned and not imitated from anywhere. This work has been carried out in laboratories of the Priyadarshini J. L. College Pharmacy, Nagpur, by Miss. Roshani Prabhakar Sautkar, under the guidance and supervision of Dr. Mrs. Shilpa A. Deshpande, Associate professor Priyadarshini J. L. College of Pharmacy, Nagpur.

This dissertation is now ready for examination.

Date: 14/07/2022

Place: Nagpur

Dr. D. R. Chaple

(Principal)

PRINCIPAL
Priyadarshini J. L. College of
Pharmacy, Nagpur.

**PHARMACOLOGICAL APPROACH FOR
BIOAVAILABILITY ENHANCEMENT OF SOME
ANTI-PSYCHOTIC DRUGS**

A DISSERTATION

Submitted in Partial Fulfillment of the Requirement for the Degree of

**Master of Pharmacy
In
Pharmacology**

*In the Faculty of Science and Technology
Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur*

**Submitted By
Mr. Pratik M. Naole
(B.Pharm)**

**Guide
Dr. Shilpa A. Deshpande
(M. Pharm, Ph.D)**



**Department of Pharmacology
Priyadarshini J.L. College of Pharmacy,
Electronic Zone Building, M.I.D.C., Hingna Road, Nagpur-440016
2021-2022**



Dr. D. R. Chaple
M. Pharm, Ph.D.
Principal,
Priyadarshini J. L. College of Pharmacy,
Nagpur.

CERTIFICATE

This is to certify that the investigations described in this dissertation, entitled "**PHARMACOLOGICAL APPROACH FOR BIOAVAILABILITY ENHANCEMENT OF SOME ANTI- PSYCHOTIC DRUGS**" is submitted in partial fulfillment for the degree of Master of Pharmacy in Pharmacology, in the faculty of Science and Technology, Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur. This work is original as far as my knowledge is concerned and not imitated from anywhere. This work has been carried out in laboratories of the Priyadarshini J. L. College Pharmacy, Nagpur, by Mr. Pratik M. Naole, under the guidance and supervision of Dr. Shilpa A. Deshpande, Associate professor, Head of the Pharmacology department at Priyadarshini J. L. College of Pharmacy, Nagpur.

This dissertation is now ready for examination.

Date: 14/07/2022
Place: Nagpur

Dr. D. R. Chaple
(Principal)

PRINCIPAL
Priyadarshini J. L. College of
Pharmacy, Nagpur.

FORMULATION AND EVALUATION OF HERBAL FAST DISSOLVING ORAL FILM USING NATURAL POLYMER

A DISSERTATION

Submitted for the approval of thesis in partial fulfillment of requirements for Degree of

MASTER OF PHARMACY

IN

PHARMACEUTICS

In the Faculty of Science and Technology,

Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur

By

Miss. Bramhananda D. Padole

B. Pharm

Guide

Dr. Rahul H. Kasliwal

M. Pharm., Ph.D.



PRIYADARSHINI J. L. COLLEGE OF PHARMACY,

Electronic Zone Building, MIDC, Hingna Road,

Nagpur-44016

2021-2022

Priyadarshini J. L. College of Pharmacy,
Electronic Zone Building, MIDC, Hingna Road, Nagpur-44016

2021-2022



Dr. D. R. Chaple
M.Pharm. Ph.D.
Principal
Priyadarshini J. L. College of Pharmacy,
Nagpur 440016.

Certificate

This is to certify that the work investigation described in this dissertation, entitled "Formulation and Evaluation of Herbal Fast Dissolving Oral Film Using Natural Polymer", is submitted in the partial fulfillment of the degree of Master of Pharmacy in Pharmaceutics, in the faculty of Science and Technology, Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur. This work is original as far as my knowledge is concerned and not imitated from anywhere. This work has been carried out in laboratories of Priyadarshini J. L. College of Pharmacy, Nagpur by Miss. Bramhananda D. Padole, under the guidance supervision of Dr. Rahul H. Kasliwal, of Priyadarshini J. L. College of Pharmacy, Nagpur.

This dissertation is now ready for examination.

Place: Nagpur

Date: 14/07/2022

Dr. D.R. Chaple
(Principal)
PRINCIPAL

Priyadarshini J. L. College of
Pharmacy, Nagpur.

**FORMULATION DEVELOPMENT AND EVALUATION OF *CARICA*
PAPAYA AND *TINOSPORA CARDIFOLIA* HERBAL MICROBEADS**

A DISSERTATION

Submitted for the approval of thesis in partial fulfilment of requirements for Degree
of
MASTER OF PHARMACY

IN

PHARMACEUTICS

In the Faculty of Science and Technology, Rashtrasant
Tukadoji Maharaj Nagpur University, Nagpur.

Submitted By

Miss. Priyanka D. Nakade
(B. Pharm)

Research guide

Dr. Rahul H. Kasliwal
(M. Pharm, Ph. D)



PRIYADARSHINI J.L COLLEGE OF PHARMACY,

ELECTRONIC ZONE BUILDING, MIDC, HINGNA ROAD,

NAGPUR-44016

2021-2022

Priyadarshini J. L. College of Pharmacy,
Electronic Zone Building, M.I.D.C., Hingna Road, Nagpur-440016

2021-2022



Dr. D. R. Chaple
M. Pharm. Ph.D.
Principal,
Priyadarshini J. L. College of Pharmacy,
Nagpur-440016.

Certificate

This is to certify that the work investigation described in this dissertation, entitled "**Formulation Development and Evaluation of carica papaya and *Tinospora cardifolia* herbal Microbeads**" is submitted in the partial fulfillment of the degree of **Master of Pharmacy in Pharmaceutics**, in the faculty of Science and Technology, **Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur**. This work is original as far as my knowledge is concerned and not imitated from anywhere. This work has been carried out in laboratories of Priyadarshini J.L. College of Pharmacy, Nagpur by **Priyanka D. Nakade**, under the guidance supervision of **Dr. Rahul H. Kasliwal**, Assistant Professor, Priyadarshini J.L. College of Pharmacy, Nagpur.

This dissertation is now ready for examination.

Place: Nagpur

Date: 08/07/2022

Dr. D. R. Chaple
(Principal)

PRINCIPAL
Priyadarshini J. L. College of
Pharmacy, Nagpur.

**PHARMACOLOGICAL EVALUATION OF
AGMATINE IN RODENT MODELS OF MUSCLE
ATROPHY**

A DISSERTATION

Submitted in partial fulfillment of requirements for Degree of

MASTER OF PHARMACY

IN

PHARMACOLOGY

In the Faculty of Science and Technology,

Rashtrasant Tukdoji Maharaj Nagpur University, Nagpur

Submitted By

**Miss. Ulka R. Raut
(B.Pharm)**

Guide

Dr. Shubhada V. Mangrulkar

(M.S.PHARM,Ph.D)



DEPARTMENT OF PHARMACOLOGY, PRIYADARSHINI

J.L. COLLEGE OF PHARMACY, ELECTRONIC ZONE

BUILDING, MIDC, HINGNA ROAD, NAGPUR-44016

2021-2022

Priyadarshini J.L College of Pharmacy,
Rashtrasant Tukdoji Maharaj Nagpur University, Nagpur
2021-2022



Dr. D. R. Chaple M.Pharm.,
Ph.D. Principal
Priyadarshini J.L College of Pharmacy
Nagpur-440016

Certificate

*This is to certify that the work investigation described in this dissertation, entitled "Pharmacological evaluation of Agmatine in Rodent models of muscle atrophy", is submitted in the partial fulfillment of the degree of **Master of Pharmacy in Pharmacology**, in the faculty of Science and Technology, Rashtrasant Tukdoji Maharaj Nagpur University, Nagpur. This work is original as far as my knowledge is concerned and not imitated from anywhere. This work has been carried out in laboratories of Priyadarshini J.L. College Of Pharmacy, Nagpur by Miss. Ulka R. Raut, under the guidance supervision of **Dr. Shubhada V. Mangrulkar**, of Priyadarshini J.L. College Of Pharmacy, Nagpur. This dissertation is now ready for examination.*

Place: Nagpur

Date: 30/08/2022

Dr. D.R. Chaple
(Principal)

PRINCIPAL
Priyadarshini J. L. College of
Pharmacy, Nagpur.

**PRECLINICAL INVESTIGATIONS ON NOVEL FORMULATION IN
MURINE VOLUMETRIC MUSCLE LOSS INJURY MODEL**

A DISSERTATION

*Submitted in partial fulfilment of the requirement for the
Degree of*

**MASTER OF PHARMACY
IN
PHARMACOLOGY**

*In the faculty of Science and Technology Rashtrasant
Tukadoji Maharaj Nagpur University, Nagpur.*

Research Scholar

MISS. RAGINI P. JADHAO

(B. Pharm)

Research Guide

DR. SHUBHADA V. MANGRULKAR

(Ms. Pharm, Ph. D.)



DEPARTMENT OF PHARMACOLOGY

PRIYADARSHINI J. L. COLLEGE OF PHARMACY,

ELECTRONIC ZONE BUILDING, MIDC, HINGNA ROAD,

NAGPUR-440016, MAHARASHTRA.

(2021-2022)



Dr. D.R. Chaple
M. Pharm, Ph D.
Principal
Priyadarshini J. L. College of Pharmacy,
Nagpur.

CERTIFICATE

This is to certify that the investigations described in this dissertation, entitled "Preclinical Investigations On Novel Formulation In Murine Volumetric Muscle Loss Injury Model" is submitted in partial fulfilment for the degree of Master of Pharmacy in Pharmacology, in the faculty of Science and Technology, Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur. This work is original as far as my knowledge is concerned and not imitated from anywhere. This work had been carried out in laboratories of the Priyadarshini J. L. College of Pharmacy, Nagpur, by Miss. Ragini P. Jadhao under my guidance and supervision.

This dissertation is now ready for examination

Date: 30/07/2022
Place: Nagpur

Dr. D.R. Chaple
(Principal)

PRINCIPAL
Priyadarshini J. L. College of
Pharmacy, Nagpur.

**PRECLINICAL INVESTIGATIONS ON NOVEL AGENT IN
ALZHEIMER'S DISEASE LIKE CONDITION**

A DISSERTATION

Submitted in partial fulfillment of the requirement for the Degree of

**Master of Pharmacy
In
Pharmacology**

In the faculty of Science and Technology

Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur

Research Scholar

Miss. Sarika Gajanan Lonkar

(B.Pharm)

Research Guide

Dr. Mrs. Shubhada V. Mangrulkar

(M. Pharm, Ph.D)



**Department of Pharmacology
Priyadarshini J.L. College of Pharmacy,
Electronic zone, M.I.D.C., Hingna Road, Nagpur-440016
2021-2022**



Dr. D. R. Chaple
M. Pharm, Ph D.
Principal,
Priyadarshini J. L. College of Pharmacy,
Nagpur.

CERTIFICATE

This is to certify that the investigations described in this dissertation, entitled **"PRECLINICAL INVESTIGATIONS ON NOVEL AGENT IN ALZHEIMER'S DISEASE LIKE CONDITION"** is submitted in partial fulfillment for the degree of Master of Pharmacy in Pharmacology, in the faculty of Science and Technology, Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur. This work is original as far as my knowledge is concerned and not imitated from anywhere. This work has been carried out in laboratories of the Priyadarshini J. L. College Pharmacy, Nagpur, by Miss. Sarika G. Lonkar, under the guidance and supervision of Dr. Mrs. Shubhada V. Mangrulkar, Assistant professor, Priyadarshini J. L. College of Pharmacy, Nagpur.

This dissertation is now ready for examination.

Date: 30/07/2022
Place: Nagpur

Dr. D. R. Chaple
(Principal)

PRINCIPAL
Priyadarshini J. L. College of
Pharmacy, Nagpur.

**PRECLINICAL INVESTIGATIONS ON ROLE OF NANO-
ENCAPSULATED HERBAL DRUGS IN SILICA-INDUCED
LUNG FIBROSIS**

A DISSERTATION

*Submitted in partial fulfilment of the requirement for the
Degree of*

**MASTER OF PHARMACY
IN
PHARMACOLOGY**

*In the faculty of Science and Technology Rashtrasant
Tukadoji Maharaj Nagpur University, Nagpur.*

Research Scholar

MR. RAUNAK ISHWAR HARODE

(B. Pharm)

Research Guide

DR. SHUBHADA V. MANGRULKAR

(Ms. Pharm, Ph. D.)



**DEPARTMENT OF PHARMACOLOGY
PRIYADARSHINI J. L. COLLEGE OF PHARMACY,
ELECTRONIC ZONE BUILDING, MIDC, HINGNA ROAD,
NAGPUR-440016, MAHARASHTRA.**

(2021-2022)



Dr. D. R. Chaple
M. Pharm, Ph D.
Principal, Priyadarshini J. L. College of Pharmacy,
Nagpur.

CERTIFICATE

This is to certify that the investigations described in this dissertation, entitled "Preclinical Investigations On Role Of Nano- Encapsulated Herbal Drugs In Silica-Induced Lung Fibrosis" is submitted in partial fulfilment for the degree of Master of Pharmacy in Pharmacology, in faculty of Science and Technology, Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur. This work is original as far as my knowledge is concerned and not imitated from anywhere. This work had been carried out in laboratory of Priyadarshini J. L. College of Pharmacy, Nagpur, by Mr. Raunak Ishwar Harode, under the guidance and supervision of Dr. Shubhada V. Mangrulkar, Associate professor, Priyadarshini J. L. College of Pharmacy, Nagpur

Date: 30/07/2022
Place: Nagpur


Dr. D.R. Chaple
(Principal)

PRINCIPAL
Priyadarshini J. L. College of
Pharmacy, Nagpur.

**DEVELOPMENT, OPTIMIZATION AND EVALUATION
OF CO-CRYSTALS OF BCS CLASS IV DRUG
THESIS**

Submitted in partial fulfillment of requirement for Degree of

MASTER OF PHARMACY

IN

PHARMACEUTICS

In the faculty of Science and Technology

Rashtrasant Tukadoji Maharaj, Nagpur University, Nagpur

Submitted By

Pallavi Madhukar Londhey

(B.Pharm)

Guide

Dr. Mrs. K. P. Upadhye

(M.Pharm, Ph.D.)



**DEPARTMENT OF PHARMACEUTICS
PRIYADARSHINI J. L. COLLEGE OF PHARMACY
ELECTRONIC ZONE BUILDING, MIDC, HINGNA ROAD,
NAGPUR-440016**

2021-2022



Priyadarshini J. L. College of Pharmacy, Nagpur
ELECTRONIC ZONE BUILDING, MIDC, HINGNA ROAD,
NAGPUR-440016

Dr. D. R. Chaple
M. Pharm., Ph. D.
Principal
Priyadarshini J. L. College of Pharmacy,
Nagpur- 440016

CERTIFICATE

This certify that the work investigation described in this thesis entitled “DEVELOPMENT, OPTIMIZATION AND EVALUATION OF CO-CRYSTALS OF BCS CLASS IV DRUG” is submitted in the partial fulfillment of the requirement for the degree of **Master of Pharmacy in Pharmaceutics**, in the faculty of Science and Technology, **Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur**. This work is original as far as my knowledge is concerned and not imitated from anywhere. This work has been carried out in laboratories of the Priyadarshini J. L. College of Pharmacy, Nagpur, by **Miss. Pallavi M. Londhey**, under the guidance and supervision of **Dr. Mrs. Kanchan P. Upadhye**, Priyadarshini J. L. College of Pharmacy, Nagpur.

This thesis is now ready for examination.

Place: Nagpur

Date: 14/07/2022

Dr. D. R. Chaple

(Principal)

PRINCIPAL
Priyadarshini J. L. College of
Pharmacy, Nagpur.

**FORMULATION AND EVALUATION OF
CLOTRIMAZOLE LOADED MICROSPONGES
BY USING NATURAL GUM**

A DISSERTATION

Submitted In Partial Fulfillment of the Requirement for the Degree Of

**MASTER OF
PHARMACY IN
PHARMACEUTICS**

In the faculty of Science & Technology,

Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur.

Submitted By

**Sakshi V. Maske
(B.Pharm)**

Research Guide

Dr. Mrs. K. P. Upadhye

(M. Pharm, Ph.D.)



PRIYADARSHINI J. L. COLLEGE OF PHARMACY

ELECTRONIC ZONE BUILDING, MIDC, HINGNA ROAD, NAGPUR- 440016

2021-2022



PRIYADARSHINI J. L. COLLEGE OF PHARMACY
Electronic Zone Building, MIDC, Hingna Road, Nagpur – 440016

Dr. D. R. Chaple

M. Pharm. Ph. D.

Principal

Priyadarshini J. L. College of
Pharmacy, Nagpur- 440016.

CERTIFICATE

This is to certify that the work investigations described in this thesis entitled "FORMULATION AND EVALUATION OF CLOTRIMAZOLE LOADED MICROSPONGES BY USING NATURAL GUM" is submitted in the

partial fulfillment of the requirement for the Degree of **Master of Pharmacy in Pharmaceutics** in the Faculty of Science & Technology, **Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur**. This work is original as far as my knowledge is concerned and not imitated from anywhere. This work has been carried out in Priyadarshini J. L. College of Pharmacy, Nagpur, by **Miss. Sakshi Vilas Maske**, under the guidance and supervision of **Dr. Mrs. K. P. Upadhye**, Priyadarshini J. L. College of Pharmacy, Nagpur.

This thesis is now ready for examination.

Place: Nagpur

Date: 14/07/22


Dr. D. R. Chaple

Principal
PRINCIPAL
Priyadarshini J. L. College of
Pharmacy, Nagpur.

PREPARATION AND *IN-VITRO* EVALUATION
OF MICONAZOLE LOADED
MICROSPONGES USING DIFFERENT
POLYMERS

A DISSERTATION

Submitted In Partial Fulfillment of the Requirement for the Degree Of

MASTER OF PHARMACY

IN

PHARMACEUTICS

In the faculty of Science & Technology,

Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur.

Submitted By

Yogini Charandas Shete

(B. Pharm)



Research Guide

Dr. Mrs. K. P. Upadhye

(M. Pharm, Ph.D)



PRIYADARSHINI J. L. COLLEGE OF PHARMACY

ELECTRONIC ZONE BUILDING, MIDC, HINGNA ROAD, NAGPUR- 440016

2021-2022



PRIYADARSHINI J. L. COLLEGE OF PHARMACY
Electronic Zone Building, MIDC, Hingna Road, Nagpur – 440016

Dr. D. R. Chaple

M. Pharm. Ph. D.

Principal

Priyadarshini J. L. College of
Pharmacy, Nagpur- 440016.

CERTIFICATE

This is to certify that the work investigations described in this thesis entitled “**PREPARATION AND *IN-VITRO* EVALUATION OF MICONAZOLE LOADED MICROSPONGES USING DIFFERENT POLYMERS**” is submitted in the partial fulfillment of the requirement for the Degree of **Master of Pharmacy in Pharmaceutics** in the Faculty of Science & Technology, **Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur**. This work is original as far as my knowledge is concerned and not imitated from anywhere. This work has been carried out in Priyadarshini J. L. College of Pharmacy, Nagpur, by **Miss. Yogini Shete**, under the guidance and supervision of **Dr. Mrs. K. P. Upadhye**, Priyadarshini J. L. College of Pharmacy, Nagpur.

This thesis is now ready for examination.

Place: Nagpur

Date: 13/07/2022

Dr. D. R. Chaple
Principal

PRINCIPAL
Priyadarshini J. L. College of
Pharmacy, Nagpur.

**INVESTIGATIONAL STUDIES ON PHARMACOKINETICS AND
ANTIDEPRESSANT ACTIVITY OF PHYTOCONSTITUENTS AND
NANO ENCAPSULATED FORMULATION IN RAT**

A DISSERTATION

*Submitted in partial fulfilment of the requirement for the
Degree of*

**MASTER OF PHARMACY
IN
PHARMACOLOGY**

*In the faculty of Science and Technology Rashtrasant
Tukadoji Maharaj Nagpur University, Nagpur.*

Research Scholar

MISS. RAGINI ANIL DANI

(B. Pharm)

Research Guide

DR. SHUBHADA V. MANGRULKAR

(Ms. Pharm, Ph. D.)



**DEPARTMENT OF PHARMACOLOGY
PRIYADARSHINI J. L. COLLEGE OF PHARMACY,
ELECTRONIC ZONE BUILDING, MIDC, HINGNA ROAD,
NAGPUR-440016, MAHARASHTRA.**

(2021-2022)



Dr. D. R. Chaple
M. Pharm, Ph D.
Principal, Priyadarshini J. L. College of Pharmacy,
Nagpur.

CERTIFICATE

This is to certify that the investigations described in this dissertation, entitled "Investigational studies on pharmacokinetics and antidepressant activity of phytoconstituents and its nano-encapsulated formulation in rats." is submitted in partial fulfilment for the degree of Master of Pharmacy in Pharmacology, in faculty of Science and Technology, Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur. This work is original as far as my knowledge is concerned and not imitated from anywhere. This work had been carried out in laboratory of Priyadarshini J. L. College of Pharmacy, Nagpur, by Miss Ragini Anil Dani, under the guidance and supervision of Dr. Shubhada V. Mangrulkar, Associate professor, Priyadarshini J. L. College of Pharmacy, Nagpur

Date: 30/07/2022
Place: Nagpur

Dr. D.R. Chaple
(Principal)

PRINCIPAL
Priyadarshini J. L. College of
Pharmacy, Nagpur.