

(A unit of VS Educational & Charitable Trust)

Approved by Tamilnadu Government & Pharmacy Council of India, New Delhi.

Affiliated to the Tamilnadu Dr. M.G.R. Medical University,

and The Directorate of Medical Education, Chennai.

# **B.Pharm** Students Undertaking Project Work/ Field Work/ Internship For The Academic Year 2023 – 2024

S.NO	DESCRIPTION		
1	Certificate of Head of institution		
2	List of <b>B.Pharm</b> Students Undertaking Project Work/ Field Work/ Internship-HOI		
3	List of Students Undertaking Project Work/ Field Work/ Internship		



(A unit of VS Educational & Charitable Trust)

Approved by Tamilnadu Government & Pharmacy Council of India, New Delhi.

Affiliated to the Tamilnadu Dr. M.G.R. Medical University,

and The Directorate of Medical Education, Chennai.

**Certificate Of Head Of Institution** 



(A unit of VS Educational & Charitable Trust)

Approved by Tamilnadu Government & Pharmacy Council of India, New Delhi.

Affiliated to the Tamilnadu Dr. M.G.R. Medical University,

and The Directorate of Medical Education, Chennai.

Dr.C.Jothimanivannan., M.Pharm., Ph.D.

Principal

## TO WHOMSOEVER IT MAY CONCERN

Number of students under taking **Project Work**/ Field Work/ Internship for the academic year 2023 - 2024 is 55.

The student participated in more than one activity has been counted as **one** only.

S

PRINCIPAL, SS INSTITUTE OF PHARMACY, KUPPANUR (PO), SANKARI (TK). SALEM - 637301.



(A unit of VS Educational & Charitable Trust)

Approved by Tamilnadu Government & Pharmacy Council of India, New Delhi.

Affiliated to the Tamilnadu Dr. M.G.R. Medical University,

and The Directorate of Medical Education, Chennai.

Dr.C.Jothimanivannan., M.Pharm., Ph.D.

Principal

### To whomsoever it may concern

This Is To Certify That The List Of **B.Pharm** Students\_Under Taking **Project Work**/ Field Work/ Internship For The Academic Year 2023 – 2024 Are Given Below.

S. No	Register No	Name Of The Student	Year	Project Work Topic	Guide
	561997227	PRADEEP .B	IV	PHARMACOGNOSTICAL,	Mr.T. SAMPATH KUMAR.,
	561997234	SANTHOSHKUMAR.N	IV	PHYTOCHEMICAL &	
1	561997236	SHALINI .M	IV	INVITRO ANTI- LICE ACTIVITY OF	
	561997238	SREEJITH .S	IV	ETHANOLIC EXTRACT	M.PHARM
	561997247	VIJAYAKUMAR .A	IV	OF CITRUS HYSTRIX	
2	561997235	SARANKUMAR.T	IV	IN-VITRO ACTIVITY OF	-
	561997237	SHANMUGAM.G	IV	ETHANOLIC EXTRACT	
	561997239	SRINIVASAN.M	IV	OF ALBIZIA AMARA IN	Mrs. M. VANITHA.,
	561997240	SRITHER.R	IV	INDIAN ADULT EARTH	M.PHARM.
	561997244	TAMILSELVAN.R	IV	WORMS (PHERETIMA	
3	561997208	DEEPASREE, M	IV	POSTHUMA) FORMULATION &	
,	561997216	HEMAVATHI. D	IV	EVALUATION OF FAST	
	561997221	KUMANAN. N.V	IV	DISSOLVING ORAL THIN	Mag V Commission
	561997226	PAVENDHARAN .S	IV	FILMS OF	Mrs.K.Sowndarya., M.PHARM
	301991220	FAVENDRAKAN .5	1 1 V	ATORVASTATIN	M.PHARM
				CALCIUM	
4	561997204	ARUN .S	IV	FORMULATION	
	561997209	DHANASEKARAN .A	IV	&EVALUATION OF	
	561997214	GOKUL PRASATH .M	IV	QUETIAPINE	N. M.COMATTIN
	561997215	GOKULNATH .M	IV	FUMARATE FLOATING	Mrs. M GOMATHI  NI: Pharm
	561997217	KAMALESH .S	NE C	TABLETS BY NON	11 A 0 *
-			May -	EFFERVESCENTRIA	CIPAL.
		SUBASHINI .M	10/	TECHNIQUE	<b>PEPHARMACY</b>
5	561997241	SUDASHINI .M	⊗ IV	PRYTOCHEMICAL & V	Dr.C.Jotnimaniyannan M.HARM.,PHD.
	*		TO SAME	SALEN	

NH-544, Kuppanur (Po), Sankari (Tk), Salem(Dt) – 637301, Tamilnadu, India Phone: 04283 241080 | E-mail: ssip1718@gmail.com | Website: www.ssip.edu.in



(A unit of VS Educational & Charitable Trust)

Approved by Tamilnadu Government & Pharmacy Council of India, New Delhi.

Affiliated to the Tamilnadu Dr. M.G.R. Medical University,

and The Directorate of Medical Education, Chennai.

	561997243	SURYAPRAKASH .M	IV	ACTIVITY EVALUATION		
No.	561997245	THANGAPANDIYAMM	IV	OF ROOT		
	. 301997213	AL.I	1 1 4	OF ROOT EXTRACT OF	6	
	561997246	VEERASELVAN .V	IV	VITEX NEGUNDO LINN		
	561997248	VIJAYAKUMAR .M	IV	TILX NEGONDO ERVIV	,	
	561997229	PRAMESHWARAN, A	IV	INVITRO EVALUATION		
-	561997230	PRIYANKA. P	IV	OF	, in the	
	561997231	RAJAGURU. A	IV	INVITRO EVALUATION		
6	561997242	SURESH. M	IV	OF ANTIFUNGAL		
	561997249	VINITHA. A	IV	POTENCY OF THE PLANT	Mrs. M. VANITHA.,	
	301997249	VIIVIIIA. A	1 1 V	EXTRACTS OF	M.PHARM	
		of the state of th		DIFFERENT PARTS OF		
				CELOSIA ARGENTEA	e0	
		-	***************************************	LINN CANDIDA SPECIES		
	561997203	ARTHI. A	IV	ANALYTICAL METHOD		
	561997206	ARUNKUMAR. K	IV	DEVELOPMENT		
	561997207	AZHAGIRI, T. K	IV	VALIDATION FOR THE		
7	561997223	MANIKANDAN, S	IV	DETERMINATION OF	Mr.S.PRAVINKUMAR.	
	561997224	MUTHUKANNAN. S	IV	NICORANDIL BY UFIC IN	M.PHARM	
	301997221			ORAL SOLID DOSAGE		
		9		FORMS	=	
	561997202	ANUSUYA. N	IV	FORMULATION &		
	561997205	ARUNKUMAR. D	IV	EVALUATION OF HERBAL	a a	
	561997213	ELAVARASAN. E	IV	CREAM BY USING	Mrs.C.KALAISELVI,	
8	561997218	KARTHICK. D	IV	BAUHINIA TOMENTOSA	M.Pharm., (Ph.D).,	
72	561997219	KARTHIKEYAN, R	IV	FOR EVALUATION OF	Associate Professor	
	Li.Adaptina de la casa			ANTI INFLAMMATORY		
<u> </u>	561007050	ADJOURNALD CAR B		ACTIVITY		
Λ	561997250	VINOTHKUMAR.R	IV	FORMULATION &		
9	560020523560	MYVIZHIKANNAN.R	IV	EVALUATION OF	Mrs. P.NANDHITHA	
9	560020523563	PRAKASH.V	IV	MATRIX TYPE	M. PHARM	
	560020523565	SUGAVARSHAN.C	IV	TRANSDERMAL	Assistant Professor	
	560020523566	VETRIVEL.R	IV	PATCHES OF IBUPROFEN		
	561997228	PRADEEP. T	IV	PHARMACOGNOSTICAL	8	
10	5600205235	GNANAVEL.S	IV	& PHARMACOLOGICAL	e e	
	58	*		ANALYSIS OF	99	
= ,	5600205235	GOKUL. K	IV	PHYTOCHEMICALS,	Mrs.V.DEEPADHARATHI	
	59			WITH IN-VITRO	M.PHARM	
	5600205235	NANDHAKUMAR. D	FVE O	EVALUATION OF	AA COULT	
	61	- 1	/ASY	DIVIRETIC ACTIVITIES	MILL	
		/	12/	ON BAMBUSA		
	561007210	DIVIDIO	7	WILGARIS LEAVER IN	CIPAL.	
1.1	561997210	DHARUN. A	(%) IV	IN-VITRO-ITIITE	Mr. Mr. BRADIERIA CY	
11	561997212	DINESH.T	*W	ANTRELMENTIC	KUMAR	
			PANKA	KUPPANUR P	ON OUNDARY WAS	

NH-544, Kuppanur (Po), Sankari (Tk), Salem(Dt) – 637301, Tamilnadu, India Phone: 04283 241080 | E-mail: ssip1718@gmail.com | Website: www.ssip.edu.in



(A unit of VS Educational & Charitable Trust)

Approved by Tamilnadu Government & Pharmacy Council of India, New Delhi.

Affiliated to the Tamilnadu Dr. M.G.R. Medical University,

and The Directorate of Medical Education, Chennai.

5600205235 62	NANDHAKUMAR. S	IV	ACTIVITY OF VARIOUS EXTRACT OF ABUTILON	M.PHARM., ASSISTANT
5600205235 62	NANDHAKUMAR. S	IV	INDICUM IN INDIAN ADULT EARTHWORMS	PROFESSOR
5600205235 64	SATHISHKUMAR. V	IV	(PHERETIMA POSTHUMA)	



PRINCIPAL.

SS INSTITUTE OF PHARMACY.

KUPPANUR (PO), SANKARI (TK).

SALEM -637301.





## "Formulation and Evaluation of Fast Dissolving Oral Thin Films Of Atorvastatin Calcium"

A Dissertation submitted to

THE TAMILNADU Dr. M.G.R. MEDICAL UNIVERSITY

Chennai-600032

In partial fulfillment for the award of degree of BACHELOR OF PHARMACY

Submitted by

M.DEEPASREE

REG.NO: 561997208

D.HEMAVATHI

REG.NO: 561997216

N.V.KUMANAN

REG.NO: 561997221

S.PAVENDHARAN

REG.NO: 561997226

Under the Guidance of

Mrs.K. SOWNDARYA., M.PHARM.,

DEPARTMENT OF PHARMACEUTICS



SS INSTITUTE OF PHARMACY

SANKARI, SALEM (DT), TAMIL NADU - 637301

SEPTEMBER-2023 (Dec-2023)

PRINCIPAL, SS INSTITUTE OF PHARMACY, KUPPANUR (PO), SANKARI (TK).





#### CERTIFICATE

This is to certify that the Project entitled "Formulation and evaluation of fast dissolving oral film of atorvastatin calcium" submitted to The Tamilnadu Dr. M.G.R Medical University, Chennai, is a bonafide project work of

N.V.KUMANAN REG.NO: 561997221

S.PAVENDHARAN REG.NO: 561997226

D.HEMAVATHI REG.NO: 561997216

M.DEEPASREE REG.NO: 561997208

in partial fulfillment of the degree of Bachelor of Pharmacy under the guidance of Mrs. K. SOWNDARYA, M.Pharm., Assistant Professor, Dept. of Pharmaceutics, SS Institute of Pharmacy, Sankari, Salem.

Dr. C. Jothimanivannan., M. Pharm., Ph.D.,

Principal,

SS Institute of Pharmacy,

Sankari, Salem - 637301.

Place:SS Institute of Pharmacy, Sankari- 637301.

Date: 30 · 12 · 20213 ·

PRINCIPAL.

SS INSTITUTE OF PHARMACY.
KUPPANUR (PO), SANKARI (TK).





### CERTIFICATE

This is to certify that the Project entitled "Formulation and evaluation of fast dissolving oral film of atorvastatin calcium" submitted to The Tamilnadu Dr. M.G.R Medical University, Chennai, is a bonafide project work of

N.V.KUMANAN REG.NO: 561997221

S.PAVENDHARAN REG.NO: 561997226

D.HEMAVATHI REG.NO: 561997216

M.DEEPASREE REG.NO: 561997208

in partial fulfillment of the Degree of Bachelor of Pharmacy under my guidance and supervision in the Department of Pharmaceutics, SS Institute of Pharmacy, Sankari, Salem.

Mrs. K. SOWNDARYA., M.Pharm.,

Supervisor/guide, Asst. Professor,

Department of Pharmaceutics,

SS Institute of Pharmacy,

Sankari- 637301.

Place: SS Institute of Pharmacy, Sankari- 637301.

Date: 30.12.2023

PRINCIPAL.

SS INSTITUTE OF PHARMACY. KUPPANUR (PO), SANKARI (TK). SALEM - 637301





## DECLARATION

The work presented in this dissertation entitled "Formulation and evaluation of fast dissolving oral film of atorvastatin calcium" was carried out by N.V.KUMANAN (REG.NO:561997221),

S.PAVENDHARAN(REG.NO:561997226),

D.HEMAVATHI(REG.NO:561997216), M.DEEPASREE (REG.NO:561997208) ,to The Tamilnadu Dr. M.G.R. Medical University, Chennai, in partial fulfillment for the degree of Bachelor of Pharmacy was carried out by the candidates at the department of pharmaceutics, under the supervision of Mrs. K. SOWNDARYA, M.Pharm., Assistant Professor, Dept. of Pharmaceutics, SS Institute of Pharmacy, Sankari, during the academic year 2022-23. We further declare that this work is original and has not been submitted in part or full for the award of any other degree or diploma in any other university.

Internal Examiner 30/12/23

Convener of Examination

Place: SS Institute of pharmacy, Sankari

N.V.KUMANAN (REG.NO: 561997221)

S.PAVENDHARAN (REG.NO: 561997226)

D.HEMAVATHI (REG.NO: 561997216)

M.DEEPASREE(REG.NO: 561997208)

Date: 30.12 . 2023

. N. V Jagragna

: S. Jamerohn.

. M. Below

PRINCIPAL.

S INSTITUTE OF PHARMACY. (UPPANUR (PO), SANKARI (TK).

## SUMMARY AND CONCLUSION

- OTFs have emerged as a revolutionary trend and most pharmaceutical companies in this field continue their research and development activities to adapt their drugs in various categories to this technology
- ➤ The present study indicates a good orally fast dissolving films containing atorvastatin calcium for systemic delivery with an added advantage of faster drug action.
- ➤ Finally, it is concluded that the drug release from the fast dissolving film was increased by using the increased concentration of superdisintegrant, thus assisting in faster disintegration in the buccal cavity.
- As the drug having low solubility, fast disintegration may leads to more drug availability for dissolution, resulting in faster absorption in systemic circulation increased systemic availability of drug may leads to quick onset of action.
- > The formulation F4 was found to be best formulation which releases 98.95 % of the drug within 15 min and disintegration time is 168sec which was significantly high when compared to other formulation.

SX

PRINCIPAL,
SS INSTITUTE OF PHARMACY,
KUPPANUR (PO), SANKARI (TK).
SALEM -637301





# PHYTOCHEMICAL AND ANTIMICROMICROBIAL ACTIVITY EVALUATION OF ROOT EXTRACT OF VITEX NEGUNDO Linn

A Dissertation submitted to

#### THE TAMILNADU Dr. M.G.R. MEDICAL UNIVERSITY

Chennai-600032

In partial fulfillment for the award of degree of

#### **BACHELOR OF PHARMACY**

Submitted by

M.SUBASHINI REG.NO:561997241
M. SURIYAPRAKASH REG.NO:561997243
I.THANGAPANDIYAMMAL REG.NO:561997245
V.VEERASELVAN REG.NO:561997246
M.VIJAYKUMAR REG.NO:561997248

Under the Guidance of

Dr. C. JOTHIMANIVANNAN, M.PHARM., Ph.D

DEPARTMENT OF PHARMACEUTICAL CHEMISTRY



PRINCIPAL,
SS INSTITUTE OF PHARMACY,
KUPPANUR (PO), SANKARI (TK).

SS INSTITUTE OF PHARMACY

SANKARI, SALEM (DT), TAMIL NADU - 637301

SEPTEMBER 2023 (MARCH-2023)



216, Manjakkalpatty, NH-47 Kuppanur

Sankari, Salem (DT.), Tamilnadu-637205

Phone: 04282-241080

Email: ssip1718@gamil.com



Principal,

Dr.C.Jothimanivannan., M.Pharm., Ph.D.,

#### CERTIFICATE

This is to certify that the Project entitled "PHYTOCHEMICAL AND ANTIMICROBIAL ACTIVITY EVALUVATION OF ROOT EXTRACT OF VITEX NEGUNDO LINN" submitted to the Tamilnadu Dr. M.G.R Medical University, Chennai, is a bonafide

project work of

M.SUBASHINI REG.NO:561997241

M. SURIYAPRAKASH REG.NO:561997243

I.THANGAPANDIYAMMAL REG.NO:561997245

V.VEERASELVAN REG.NO:561997246

in partial fulfillment of the degree of Bachelor of Pharmacy under the guidance of Dr. C.

JOTHIMANIVANNAN,M. PHARM., Ph.D Department of PHARMACEUTICAL

CHEMISTRY SS Institute of Pharmacy, Sankari, Salem.

Place: SS Institute of Pharmacy, Sankari - \$\$\\$7301.

M.VIJAYKUMAR

Date:

SS INSTITUTE OF PHARMACY.C. JOTHIMANIVAN, M.PHARM., Ph.D.

REG.NO:561997248

KUPPANUR (PO), SANKARI (TK).

SALEM - 63730 TE OF Principal / Professor / guide,

Department of Pharmaceutical Chemistry

SS Institute of Pharmacy,

Sankari, Salem - 637301.



216, Manjakkalpatty, NH-47 Kuppanur Sankari, Salem (DT.), Tamilnadu-637205

Phone: 04282-241080

Email: ssip1718@gmail.com



#### DECLARATION

presented work in this dissertation entitled "phytochemical The Pharmacological Antimicrobial activity of root extract of vitex negundo linn"was Carried M.SUBASHINI (561997241), V.VEERASELVAN (561997246) by out I.THANGAMPANDIYAMMAL (561997245), M.SURIYAPRAKESH (561997243)

M.VIJAYKUMAR (561997248),,to the Tamilnadu Dr.MGR.medical university, Chennai, in partial fulfillment for the degree of Bachelor of Pharmacy was carried out by the department of pharmacology, under the supervision candidate the Dr. C. Jothimanivannan, M.Pharm., Ph.D., Department of Pharmaceutical Chemistry SS Institute of Pharmacy, Sankari, during the academic year Aug 2023 (March 2023). We further declare that this work is original and has not been submitted in part or full for the award of any other degree in any other university.

Convener of Examination

Place: SS Institute of pharmacy, Sankari.

M. SURIYAPRAKASH REG.NO:5619972

I.THANGAPANDIYAMMAL RECKNOR561997245

V.VEERASELVAN

M.SUBASHINI

M.VIJAYKUMAR

Date:

REG.NO:561997241

REG.NO:561997246

SANKARREG.NO:561997248 : M

## CHAPTER- VIII

## 8. SUMMARY AND CONCLUSION

Antimicrobial properties of medicinal plants are being increasingly reported from different parts of the world.

The World Health Organization (WHO) estimates the plant extract or active constituents are used as folk medicine in traditional therapies of 80% of the world population.

In the present work the aqueous extract obtained from Vitex negundo linn roots showed strong activity against the selected microbial strains.

The result of phytochemical in the present investigation showed that the plant contains effective constituents like alkaloid, glycosides, flavonoids, tannins, amino acids, proteins and reducing sugar.

In this study different concentration of aqueous root extract 25µl, 50µl, 75µl, 100µl. Were used against the different microbial strains shows increase in zone of inhibition was observe on increasing the concentration of aqueous root extract.

Among the different microbial strains a significant inhibitory action was observed against Staphylococcus (G+ve), E.Coli (G-ve) and a minimal inhibitory action against Streptococcus (G-ve). However further studies are needed to better evaluate the potential effectiveness of the crude extract, attempt is worth to isolate a broad spectrum antimicrobial agents.

The present result will form the basis for selection investigation in the potential discovery of new natural bio-active compound.

PRINCIPAL. SINSTITUTE OF PHARMACY (UPPANUR (PC), SANKARI (TX SALEM - 637301





## FORMULATION AND EVALUATION OF MATRIX TYPE TRANSDERMAL PATCHES OF IBUPROFEN

## Dissertation submitted to

THE TAMILNADU DR. M.G.R. MEDICAL UNIVERSITY,

#### CHENNAI-32

In partial fulfillment for the award of degree of BACHELOR OF PHARMACY

Submitted By

VINOTH KUMAR .R REG NO:561997250

MYVIZHIKANNAN .R REG NO:560020523560

PRAKASH .V REG NO:560020523563

SUGAVARSAN.C REG NO:560020523565

VETRIVEL.R REG NO:560020523566

Under the guidance of

Mrs. P.NANDHITHA M. Pharm.,

Assistant Professor,

Department of Pharmaceutics.



SS INSTITUTE OF PHARMACY.

KUPPANUR (PO), SANKARI (TK). ALEM 637301

SS INSTITUTE OF PHARMAC

SANKARI, SALEM (DT)-63730

MAY 2024(MARCH 2024)





## **CERTIFICATE**

This is to certify that the dissertation entitled "FORMULATION AND EVALUATION OF MATRIX TYPE TRANSDERMAL PATCHES OF IBUPROFEN" is the bonafide work carried out by Mr.VINOTHKUMAR R, Mr.MYVIZHIKANNAN R, Mr.PRAKASH V, Mr.SUGAVARSAN C, Mr.VETRIVEL R, under the guidance of Mrs.P.Nandhitha, M.PHARM., Assistant Professor, Department of Pharmaceutics, SS Institute of Pharmacy, Sankari, Salem in partial fulfillment of requirements for the award of degree of Bachelor of Pharmacy.

This is forwarded to The Tamilnadu Dr. M.G.R. Medical University, Chennai.

Prof. Dr.C. Jothimanivannan, M.Pharm, Ph.D.,

Principal,

SS Institute of pharmacy,

Sankari,

Salem - 637301

Date: 19/06/24

Place: Sankari

PRINCIPAL.

SS INSTITUTE OF PHARMACY.

HUPPANUR (PO), SANKARI (TK).





## CERTIFICATE

This is to certify that the dissertation entitled "FORMULATION AND EVALUATION OF MATRIX TYPE TRANSDERMAL PATCHES OF IBUPROFEN" is the bonafide work carried out Mr.VINOTH KUMAR R, Mr.MYVIZHIKANNAN R, Mr.PRAKASH V, Mr.SUGAVARSAN C, Mr.VETRIVEL R, under my guidance and supervision. This is forwarded to The Tamilnadu Dr. M.G.R. Medical University, Chennai in a partial fulfillment of requirements for the award of degree of Bachelor of Pharmacy.

NEST P.

Mrs.P.NANDHITHA,M.Pharm,
Assistant Professor,
Department of Pharmaceutics,
SS Institute of Pharmacy,
Sankari,Salem -637301.

Date: 19. 06. 2024.

Place: Sankari

PRINCIPAL,
SS INSTITUTE OF PHARMACY,
KUPPANUR (PO), SANKARI (TX).
SALEM -637301





## DECLARATION

We hereby declare that this dissertation entitled "FORMULATION AND EVALUATION OF MATRIX TYPE TRANSDERMAL PATCHES OF IBUPROFEN" has been carried out by us under the Guidance and supervision of Mrs.P.Nandhitha, M.Pharm, Assistant professor, SS Institute of Pharmacy, Sankari. In a partial fulfillment of requirements for the Bachelor of Pharmacy Degree Course. We further declare that we have not submitted this dissertation previously for the award of any degree or diploma.

Mr. VINOTH KUMAR.R

(561997250)

R.mysizlikannan Mr.MYVIZHIKANNAN. R (560020523560)

v .Frakash Mr. PRAKASH. V (560020523563)

Mr. VETRIVEL. R (560020523566) Mr. SUGAVARSAN.C (560020523565)

Date: 19/06/24

Place: Sankari

Signature of the Internal Examiner

Date of Examination 19 06 24.

Salem 637301

## CHAPTER XI

# SUMMARY AND CONCLUSION

In the present work an attempt has been made to formulate and evaluate the transdermal patches of Ibuprofen using various types of polymers (Methylcellulose, Hydroxy propyl methyl cellulose, & Polyvinyl pyrolidone).

The results of compatibility studies by Fourier transform infrared spectroscopy and showed no interaction between the drug and polymers.

The polymers Hydroxypropyl methyl cellulose & Polyvinyl pyrolidone in 1:2 ratioused for the formulation of transdermal patches showed good film forming property when compared to other polymer ratios.

The patches prepared by using Polyvinyl pyrolidone were thin, flexible, smooth and transparent whereas the patches prepared by without using Polyvinyl pyrolidone were thin, flexible, smooth and opaque.

The weight variation test showed less variation in weight and suggesting uniform distribution of drug and polymer.

The thickness of the transdermal patches showed less variation almong all the PRINCIPAL.

polymers with different ratios.

SS INSTITUTE OF PHARMACY.

KUPPANUR (PO), SANKARI (TK).

ANKAR

Polymer patches with methyl cellulose, HPMC & PVP of ratio 3:7:7, & HPMC & pVP of ratio 2:1 &1:1 showed good flexibility and folding endurance properties when compared to other patches.

All the formulations showed 100% flatness which indicating that all patches could maintain a smooth surface when applied on to the skin.

The moisture content in the patches were found to low and the formulations containing polymers are hydrophillic polymer so it should be carefully packed along with dessicant.

The drug content analysis showed minimum variations suggesting uniform distribution of drug. .In vitro release studies showed that drug release of the formulations containing 2:1 ratio of HPMC & PVP (F<sub>6</sub>) shows best results.

Hence it was concluded that solvent casting method was useful for successful development of matrix type transdermal patches of Ibuprofen. The controlled release of drug from the transdermal patches suggested that the frequency of administration can be reduced.

The transdermal patches can improve the bioavailability of the Ibuprofen by avoiding hepatic first pass metabolism. The present investigation suggested that the matrix type transdermal patches of Ibuprofen could be explored for the management of the pair.

Inflammatory response.

SS INSTITUTE OF PHARMACY, KUPPANUR (PO), SANKARI (TK). SALEM -637301





## "ANALYTICAL METHOD DEVELOPMENT AND VALIDATION FOR THE DETERMINATION OF NICORANDIL BY UFLC IN ORAL SOLID DOSAGE FORMS"

A Dissertation submitted to

THE TAMILNADU Dr. M.G.R. MEDICAL UNIVERSITY

Chennai-600032

In partial fulfillment for the award of degree of

BACHELOR OF PHARMACY

Submitted by

A.ARTHI REG.NO: 561997203

K.ARUNKUMAR REG.NO: 561997206

T.K.AZHAGIRI REG.NO: 561997207

S.MANIKANDAN REG.NO: 561997223

S.MUTHUKANNAN REG.NO: 561997224

Under the Guidance of

Mr.S.PRAVINKUMAR., M.PHARM.,

DEPARTMENT OF PHARMACEUTICAL ANALYSIS



SS INSTITUTE OF PHARMA UPPANUR (PO), SA

SANKARI, SALEM (DT), TAMIL NADU - 637381 SEPTEMBER-2023 (Dec-2023)





#### CERTIFICATE

This is to certify that the Project entitled "ANALYTICAL METHOD DEVELOPMENT AND VALIDATION FOR THE DETERMINATION OF NICORANDIL BY UFLC IN ORAL SOLID DOSAGE FORMS" submitted to The Tamilnadu Dr. M.G.R Medical University, Chennai, is a bonafide project work of

A.ARTHI REG.NO: 561997203

K.ARUNKUMAR REG.NO: 561997206

T.K.AZHAGIRI REG.NO: 561997207

S.MANIKANDAN REG.NO: 561997223

S.MUTHUKANNAN REG.NO: 561997224

in partial fulfillment of the degree of Bachelor of Pharmacy under the guidance of Mr.S.PRAVINKUMAR, M.Pharm., Assistant Professor, Dept. of Pharmaceutical Analysis, SS Institute of Pharmacy, Sankari, Salem.

Dr. C. Jothimanivannan, M.Pharm., Ph.D.,

Principal,

SS Institute of Pharmacy,

Sankari, Salem - 637301.

Place:SS Institute of Pharmacy, Sankari- 637301.

Date: 30.12.2023

PRINCIPAL.

SS INSTITUTE OF PHARMACY. KUPPANUR (PO), SANKARI (TK).





### CERTIFICATE

This is to certify that the Project entitled "ANALYTICAL METHOD DEVELOPMENT AND VALIDATION FOR THE DETERMINATION OF NICORANDIL BY UFLC IN ORAL SOLID DOSAGE FORMS" submitted to The Tamilnadu Dr. M.G.R Medical University, Chennai, is a bonafide project work of

A.ARTHI REG.NO: 561997203

K.ARUNKUMAR REG.NO: 561997206

T.K.AZHAGIRI REG.NO: 561997207

S.MANIKANDAN REG.NO: 561997223

S.MUTHUKANNAN REG.NO: 561997224

in partial fulfillment of the Degree of Bachelor of Pharmacy under my guidance and supervision in the Department of Pharmaceutical Analysis, SS Institute of Pharmacy, Sankari, Salem.

Mr. S.PRAVINKUMAR., M.Pharm.,

S. P. Jumas

Supervisor/guide, Asst. Professor,

Department of Pharmaceutical Analysis,

SS Institute of Pharmacy,

Sankari- 637301.

Place :SS Institute of Pharmacy, Sankari- 637301

.Date : 30 /12/2023

THE OF ALLARMAC TO SANKARIA

PRINCIPAL. SS INSTITUTE OF PHARMACY. KUPPANUR (PO), SANKARI (TK). SALEM - 637301





#### DECLARATION

The work presented in this dissertation entitled "ANALYTICAL METHOD DEVELOPMENT AND VALIDATION FOR THE DETERMINATION OF NICORANDIL BY UFLC IN ORAL SOLID DOSAGE FORMS" was carried out by A.ARTHI (REG.NO:561997203), K.ARUNKUMAR (REG.NO:561997206), T.K.AZHAGIRI (REG.NO:561997207), S.MANIKANDAN (REG.NO:561997223) S.MUTHUKANNAN (REG.NO:561997224), to The Tamilnadu Dr. M.G.R. Medical University, Chennai, in partial fulfillment for the degree of Bachelor of Pharmacy was carried out by the candidates at the department of pharmaceutical analysis, under the supervision of Mr. S.PRAVINKUMAR, M.Pharm., Assistant Professor, Dept. of Pharmaceutical Analysis, SS Institute of Pharmacy, Sankari, during the academic year 2022-23. We further declare that this work is original and has not been submitted in part or full for the award of any other degree or diploma in any other university.

Internal Examiner

Convener of Examination

Place: SS Institute of pharmacy, Sankari

Date:

A.ARTHI (REG.NO: 561997203)

K.ARUNKUMAR (REG.NO: 561997206)

T.K.AZHAGIRI (REG.NO: 561997207)

S.MANIKANDAN (REG.NO: 561997223)

S.MUTHUKANNAN (REG.NO: 561997224)

: A Anles

: Tty Obo he fin

SS INSTITUTE OF PHARMACY KOMPANUELDO SANKARI (TK

SALEM 637301

# ANALYTICAL MEHOD DEVELOPMENT AND VALIDATION FOR THE DETERMINATION OF NICORANDIL BY UFLC IN ORAL SOLID DOSAGE FORMS

## 7. SUMMARY AND CONCLUSION

Parameters		Nicorandil	LIMIT	
Linear Regression equa		y = 0.0000x-5.2442 ( $r^2 = 0.9993$ )	r² not less than 0.99	
Assa	ay			
(% mean assay)		100.78%	98%-102%	
Specificity		Complies	No interference of any pe	
Method precision %RSD		0.51 %	RSD NMT 2.0%	
Intermediate precision day-01 %RSD		0.66%	RSD NMT 2.0%	
Intermediate precision day-02 %RSD Accuracy %		0.71%	RSD NMT 2.0%	
		99.18% to 100.91%	98-102%	
	FM	0.82%		
	FP	0.48%	427271377 4 1	
Robustness	WM	0.48%	%RSD NMT 2.0	
	WP	0.68%		

#### Conclusion:

A simple, Accurate, precise method was developed for the simultaneous estimation of the Nicorandil in solid dosage form. Retention time of Nicorandil was found 2.173min. %RSD of the Nicorandil found 0.13%. %Assay was obtained as 100.78% for Nicorandil. Regression equation of Nicorandil is y=0.0000x-5.2442 & r² =0.9993. Retention times were decreased and that run time was decreased, so the method developed was simple and economical that can be adopted in regular Quality control test in Industries.

SS INSTITUTE OF PHARMACY. KUPPANUR (PO), SANKARI (TK). SALEM - 637301

Page 110 of 112





# FORMULATION AND EVALUATION OF HERBAL CREAM BY USING BAUHINIA TOMENTOSA FOR EVALUATION OF ANTI INFLAMMATORY ACTIVTY

THE TAMILNADU DR. M.G.R. MEDICAL UNIVERSITY

Chennai-600032

In partial fulfilment for the award of degree of

#### **BACHELOR OF PHARMACY**

## Submitted by

N. ANUSUYA REG.NO: 561997202

D. ARUNKUMAR REG.NO: 561997205

E. ELAVARASAN REG.NO: 561997213

D. KARTHICK REG.NO: 561997218

R. KARTHIKEYAN REG.NO: 561997219

Under the Guidance of

Mrs. C. KALAISELVI, M.Pharm., (Ph.D)., Associate Professer

DEPARTMENT OF PHARMACEUTICS

SS INSTITUTE OF PHARMACY, SANKARI, SALEM DISTRICT,

**TAMIL NADU - 637301** 

PRINCIPAL

SS INSTITUTE OF PHARMACY. KUPPANUR (PO), SANKARI (TK).

SALEM - 637301

SEP 2023 (DEC 2023) 2



216, Manjakkalpatty, NH-47 Kuppanur,

Sankari, Salem (DT.), Tamilnadu-637205.

Phone: 04283-241080

Email: ssip1718@gmail.com



## **EVALUATION CERTIFICATE**

This is to certify that the Dissertation entitled "FORMULATION AND EVALUATION OF HERBAL CREAM BY USING BAUHINIA TOMENTOSA FOR **EVALUATION OF ANTI INFLAMMATORY ACTIVITY"** submitted by

> **N.ANUSUYA** REG.NO: 561997202

> REG.NO: 561997205 D.ARUNKUMAR

> REG.NO: 561997213 **E.ELAVARASAN**

> REG.NO: 561997218 D.KARTHICK

> REG.NO: 561997219 R.KARTHIKEYAN

to The Tamilnadu Dr. M.G.R. Medical University, Chennai, in partial fulfillment for the degree of BACHELOR OF PHARMACY was carried out by the candidates at the department of pharmaceutics, SS Institute of pharmacy, under the guidance of and supervision of Mrs. C.

KALAISELVI, M.Pharm., (Ph.D) Associate Professor, SS Institute of pharmacy during the academic year of 2022-2023.

Internal Examinar

Convener of examination

Examination center: SS Institute of Pharmacy, Sankari- 63730 S INSTITUTE

:30/12/23

Date



216, Manjakkalpatty, NH-47 Kuppanur,

Sankari, Salem (DT.), Tamilnadu-637205.

Phone: 04283-241080

Email: ssip1718@gmail.com



## Mrs. C. KALAISELVI, M.Pharm., (Ph.D)., Associate Professor

Supervisor/Guide, Department of pharmaceutics

## CERTIFICATE

This is to certify that the Dissertation entitled "FORMULATION AND EVALUATION OF HERBAL CREAM BY USING BAUHINIA TOMENTOSA EVALUATION OF ANTI INFLAMMATORY ACTIVITY" submitted to The Tamilnadu Dr. M.G.R Medical University, Chennai, is a bonafide project work of

N.ANUSUYA REG.NO: 561997202

D.ARUNKUMAR REG.NO: 561997205

E.ELAVARASAN REG.NO: 561997213

D.KARTHICK REG.NO: 561997218

R.KARTHIKEYAN REG.NO: 561997219

in the Department of Pharmaceutics, SS Institute of Pharmacy, Sankari, for the partial fulfillment of the Degree of Bachelor of Pharmacy under my guidance and supervision.

Mrs. C. KALAISELVI, M.Pharm.,(Ph.D)A sociate Professor

PRINCIPAL.

KUPPANUR (PO), SANKARI (TK)



216, Manjakkalpatty, NH-47 Kuppanur,

Sankari, Salem (DT.), Tamilnadu-637205.

Phone: 04283-241080

Email: ssip1718@gmail.com



Dr. C. Jothimanivannan., M.Pharm., Ph.D.,

Principal,

#### CERTIFICATE

This is to certify that the Dissertation entitled "FORMULATION AND EVALUATION OF HERBAL CREAM BY USING BAUHINIA TOMENTOSA FOR EVALUATION OF ANTI INFLAMMATORY ACTIVITY" submitted to The Tamilnadu Dr. M.G.R Medical University, Chennai, is a bonafide project work of

> **N.ANUSUYA** REG.NO: 561997202

**D.ARUNKUMAR** REG.NO: 561997205

**E.ELAVARASAN** REG.NO: 561997213

REG.NO: 561997218 D.KARTHICK

REG.NO: 561997219 R.KARTHIKEYAN

in partial fulfillment of the degree of Bachelor of Pharmacy under the guidance of Mrs. C. KALAISELVI, M.Pharm., (Ph.D), Associate Professor, Department of Pharmaceutics, SS Institute of Pharmacy, Sankari, Salem.

Dr. C. Jothimanivannan.

Principal,

SS Institute of Pharmacy,

Sankasi Walem.

PRINCIPAL.

NSTITUTE OF PHARMACY. PPANUR (PO), SANKARI (TK).

SALEM - 637301

Place: SS Institute of Pharmacy, Sankari- 637301.

Date:



216, Manjakkalpatty, NH-47 Kuppanur,

Sankari, Salem (DT.), Tamilnadu-637205.

Phone: 04283-241080

Email: ssip1718@gmail.com



## DECLARATION

The work presented in this dissertation entitled "FORMULATION AND EVALUATION OF HERBAL CREAM BY USING BAUHINIA TOMENTOSAFOR EVALUATION OF ANTI INFLAMMATORY ACTIVITY" was carried out by N.ANUSUYA(561997202), D.ARUNKUMAR(561997205), E.ELAVARASAN(561997213), D.KARTHICK(561997218), R.KARTHIKEYAN(561997219) to The Tamilnadu Dr. M.G.R. Medical University, Chennai, in partial fulfillment for the degree of BACHELOR OF PHARMACY was carried out by the candidates at the department of pharmacology, under the supervision of Mrs. C. KALAISELVI, M.Pharm., (Ph.D), Associate Professor,, department of pharmaceutics, SS Institute of Pharmacy, Sankari, during the academic year 2022-2023.

(Register No: 56199720

Name: E. ELAVARAS

(Register No: 561997213)

Name: D.ARUNKUMAR

(Register No: 561997205)

Name: D.KARTHICK

(Register No: 561997218)

(Register No: 561997219)

Place: SS Institute of Pharmacy, Sankari- 637301.

Date:

PRINCIPA

SS INSTITUTE OF PHARMACY KUPPANUR (PO), SANKARI (TK).

## CHAPTER X

## 10. SUMMARY AND CONCLUSION

## 10.1 SUMMARY AND CONCLUSION

The topic of our research work is "FORMULATION AND EVALUATION OF HERBAL CREAM BY USING BAUHINIA TOMENTOSA FOR EVALUATION OF ANTI INFLAMMATORY ACTIVITY"

Herbal medicines are the oldest form of health care known to mankind. Though there are several allopathic medicines available, many people still rely on nature which has blessed human kind with abundant medicinal plants for prevention and cure of disease.

The risk of inflammation is still increasing world-wide. Many synthetic drugs are commonly used to treat the different types of inflammation conditions. Even though there is an availability of different synthetic drugs to treat inflammation, an exploration of herbal medicine is essential to meet out the cure for the same. Herbs that are having potential anti-inflammation activity are used to further develop novel drugs nowadays. Among those, two particular plants especially medicinal herbs are

The plants have flavanoids which may be responsible for their potential anti-inflammatory properties as mentioned in the traditional claim. In the present research work, an unique combination of active extracts of the herbs are chosen to formulate a herbal CREAM for the treatment of inflammation. Thus, the study is an attempt to evaluate the anti- inflammation activity of herbal CREAM containing active extracts of Bauhinia Tomentosa. The review of literature showed that the formulation of herbal CREAM containing combined active extracts of Bauhinia Tomentosa and evaluation of anti- inflammation activity has not been reported so far

The project entitled "FORMULATION AND EVALUATION OF HERBAL CREAM BY USING BAUHINIA TOMENTOSA FOR EVALUATION OF ANTI INFLAMMATORY ACTIVITY" has been achieved with the following results.

The above findings helps to standardize both morphology and anatomical characters. The Physicochemical parameters with Asharalues and Extractive papers in passion

SS INSTITUTE OF PHARMACY, KUPPANUR (PO), SANKARI (TK). SALEM -637301

ANKAR





# "Pharmacognostical, Phytochemical and Invitro Anti-Lice activity of Ethanolic extract of Citrus hystrix"

A Dissertation submitted to

THE TAMILNADU Dr. M.G.R. MEDICAL UNIVERSITY

Chennai-600032

In partial fulfillment for the award of degree of

BACHELOR OF PHARMACY

Submitted by

B.PRADEEP REG.NO: 561997227

N.SANTHOSHKUMAR REG.NO: 561997234

M.SHALINI REG.NO: 561997236

S.SREEJITH REG.NO: 561997238

A.VIJAYAKUMAR REG.NO: 561997247

Under the Guidance of

Mr.T. SAMPATH KUMAR., M.PHARM.,
DEPARTMENT OF PHARMACOGNOSY



SS INSTITUTE OF PHARMACY

SANKARI, SALEM (DT), TAMIL NADU - 63730 RINGIPA

SEPTEMBER 2023 Dec-2023 INSTITUTE OF PHARMACY, KUPPANUR (PO), SANKARI (TK).
SALEM - 637301





#### CERTIFICATE

This is to certify that the Project entitled "Pharmacognostic, Phytochemical and Invitro Anti-Lice activity of Ethanolic extract of Citrus hystrix" submitted to The Tamilnadu Dr. M.G.R Medical University, Chennai, is a bonafide project work of

B.PRADEEP REG.NO: 561997227

N.SANTHOSHKUMAR REG.NO: 561997234

M.SHALINI REG.NO: 561997236

S.SREEJITH REG.NO: 561997238

A.VIJAYAKUMAR REG.NO: 561997247

in partial fulfillment of the degree of Bachelor of Pharmacy under the guidance of Mr. T. SAMPATH KUMAR, M.Pharm., Assistant Professor, Dept. of Pharmacognosy, SS Institute of Pharmacy, Sankari, Salem.

Dr. C. Jothimanivannan., M.Pharm., Ph.D.,

Principal,

SS Institute of Pharmacy,

Sankari, Salem - 637301.

Place:SS Institute of Pharmacy, Sankari- 637301

Date:

PRINCIPAL.
SS INSTITUTE OF PHARMACY.
KUPPANUR (PO), SANKARI (TK).
SALEM -637301





#### DECLARATION

The work presented in this dissertation entitled "Pharmacognostic, Phytochemical and Invitro Anti-Lice activity of Ethanolic extract of Citrus hystrix" was carried out by B.Pradeep (REG.NO:561997227), N.SANTHOSHKUMAR (REG.NO:561997234). M.SHALINI (REG.NO:561997236), S.SREEJITH (REG.NO:561997238) A.VIJAYAKUMAR (REG.NO:561997247), to The Tamilnadu Dr. M.G.R. Medical University, Chennai, in partial fulfillment for the degree of Bachelor of Pharmacy was carried out by the candidates at the department of pharmacognosy, under the supervision of Mr. T. SAMPATH KUMAR, M.Pharm., Assistant Professor, Dept. of Pharmacognosy, SS Institute of Pharmacy, Sankari, during the academic year 2022-23. We further declare that this work is original and has not been submitted in part or full for the award of any other degree or diploma in any other university.

30 m/m
Internal Examiner

**Convener of Examination** 

Place: SS Institute of pharmacy, Sankari Date: 30 12 23

B.PRADEEP (REG.NO: 561997227)

: BIDMD

N.SANTHOSHKUMAR (REG.NO: 561997234)

: SKIN

M.SHALINI (REG.NO: 561997236)

: H&H:

S.SREEJITH (REG.NO: 561997238) F. O.

A.VIJAYAKUMAR REG.NO: (561997247)

: A LANDIPAL.

S INSTITUTE OF PHARMACY. JUPPANUR (PO), SANKARI (TK).

## Summary

The project on the antilice activity of Citrus hystrix involved comprehensive investigations, including pharmacognostical studies, phytochemistry studies, and in vitro anti-lice studies.

The pharmacognostical studies provided valuable insights into the botanical characteristics and identification of Citrus hystrix.

Phytochemistry studies revealed the presence of bioactive compounds in the plant, contributing to its medicinal properties.

The in vitro anti-lice studies involved the introduction of lice across different concentrations, demonstrating notable activity.

#### Conclusion:

In conclusion, the collective findings of the project underscore the potential of Citrus hystrix as a promising candidate for anti-lice treatments.

The integration of pharmacognostical and phytochemistry studies enriched our understanding of the plant's composition.

The in vitro anti-lice studies further affirmed its efficacy, albeit with variations in activity levels across concentrations.

This research lays the foundation for future exploration and development of Citrus hystrixbased formulations for combating lice infestations.

SON SON SANKARI\*

PRINCIPAL.
SS INSTITUTE OF PHARMACY.
KUPPANUR (PO), SANKARI (TK).
SALEM -637301





# IN-VITRO ACTIVITY OF ETHONOLIC EXTRACT OF ALBIZIA AMARA IN INDIAN ADULT EARTH WORMS (PHERETIMA POSTHUMA)

A Dissertation submitted to

THE TAMILNADU Dr. M.G.R. MEDICAL UNIVERSITY

Chennai-600032

In partial fulfillment for the award of degree of

**BACHELOR OF PHARMACY** 

Submitted by

T. SARANKUMAR REG.NO: 561997235

G. SHANMUGAM REG.NO: 561997237

M.SRINIVASAN REG.NO: 561997239

R. SRITHER REG.NO: 561997240

R. TAMILSELVAN REG.NO: 561997244

Under the Guidance of

Mrs. M. VANITHA., M.PHARM.,

DEPARTMENT OF PHARMACOLOGY



SS INSTITUTE OF PHARMACY

SANKARI, SALEM (DT), TAMIL NOS INSTITUTE OF PHARMACY.
KUPPANUR (PO), SANKARI (TK)

SEPTEMBER-2023 (DECEMBER - 2029) FM - 637301





This is to certify that the Project entitled "IN-VITRO ACTIVITY OF ETHANOLIC EXTRACT OF ALBIZIA AMARA ROXB IN INDIAN ADULT EARTHWORMS (PHERETIMA POSTHUMA)" submitted to The Tamilnadu Dr. M.G.R Medical University, Chennai, is a bonafide project work of

T. SARANKUMAR REG.NO: 561997235

G. SHANMUGAM REG.NO: 561997237

M.SRINIVASAN REG.NO: 561997239

R. SRITHER REG.NO: 561997240

R. TAMILSELVAN REG.NO: 561997244

in partial fulfillment of the degree of Bachelor of Pharmacy under the guidance of Mrs.M, VANITHA M.Pharm., Assistant Professor, Dept. of Pharmacology, SS Institute of Pharmacy, Sankari, Salem.

Dr. C. Jothimanivannan., M.Pharm., Ph.D.,

Principal,

SS Institute of Pharmacy,

Sankari, Salem - 637301.

Place:SS Institute of Pharmacy, Sankari- 637301.

Date: 30/12/23

PRINCIPAL,
SS INSTITUTE OF PHARMACY
KUPPANUR (PO), SANKARI (TX)
SALEM - 637301





This is to certify that the Project entitled "IN-VITRO ACTIVITY OF ETHANOLIC EXTRACT OF ALBIZIA AMARA ROXB IN INDIAN ADULT EARTHWORMS (PHERETIMA POSTHUMA)" submitted to The Tamilnadu Dr. M.G.R Medical University, Chennai, is a bonafide project work of

T. SARANKUMAR REG.NO: 561997235

G. SHANMUGAM REG.NO: 561997237

M.SRINIVASAN REG.NO: 561997239

R. SRITHER REG.NO: 561997240

R. TAMILSELVAN REG.NO: 561997244

in partial fulfillment of the Degree of Bachelor of Pharmacy under my guidance and supervision in the Department of Pharmacology, SS Institute of Pharmacy, Sankari, Salem.

Mrs.M. VANITHA., M. Pharm.,

Supervisor/guide, Asst. Professor,

Department of Pharmacology,

SS Institute of Pharmacy,

Sankari- 637301.

Place: SS Institute of Pharmacy, Sankari- 637301.

Date : 30/12/20

PRINCIPAL,
NSTITUTE OF PHARMACY
PANUR (PO), SANKARI (TK)
SALEM 637301





The work presented in this dissertation entitled "IN-VITRO ACTIVITY OF ETHANOLIC EXTRACT OF ALBIZIA AMARA ROXB IN INDIAN ADULT EARTHWORMS (PHERETIMA POSTHUMA)" was carried out by T.SARANKUMAR (REG.NO:561997235), **G.SHANMUGAM** (REG.NO:561997237), M.SRINIVASAN (REG.NO:561997239), R.SRITHER R.TAMILSELVAN (REG.NO:561997244), to The (REG.NO:561997240) Tamilnadu Dr. M.G.R. Medical University, Chennai, in partial fulfillment for the degree of Bachelor of Pharmacy was carried out by the candidates at the department of Pharmacology, under the supervision of Mrs.M. VANITHA, M.Pharm., Assistant Professor, Dept. of Pharmacology, SS Institute of Pharmacy, Sankari, during the academic year 2022-23. We further declare that this work is original and has not been submitted in part or full for the award of any other degree or diploma in any other university.

Internal Examiner

Convener of Examination

Place: SS Institute of pharmacy, Sankari Date: 30/12/23

T. SARANKUMAR REG.NO: 561997235 : T. Saranky

REG. NO. 301997235 : 11 20 20 1

G. SHANMUGAM REG.NO: 561997237 : G1. 86.

M.SRINIVASAN REG.NO: 561997239 : M. Stinivasan

R. SRITHER REG.NO: 561997240 : R. S11140

R. TAMILSELVAN REG.NO: 561997244 : DAR

SS INSTITUTE OF PHARMACY KUPPANUR (PO), SANKARI (TK) SALEM - 637301

## 8. DISCUSSION

Albizia Amara worldwide growing plant exhibits potent diabetic, anti inflammatory, anti oxidant and antihypertensive activity, anti oxidant (Tamaki Hajime b, et al., 2008), Anti ulcer (Thamotharan G et al., 2012). In the present study, we have tested the anti-hyperglycemic potency of Albizia Amara ethanolic extract in Alloxan induced diabetic rats as well as anti-hyperlipidemic activity. It is suggested that the anti-hyperglycemic and anti-hyperlipidemic activities of the plant is due to the active principles of plant source. The phytochemical screening of the ethanolic leaf extract shown that isolation and identification of four flavanoids glycosides such as Rutin, apigenin 6-neohesperidose, kaempferol 3-robinobioside and kaempferol 3-rutinoside (Rakesh kumar gupta et al., 2012) and alkaloids, carbohydrates, glycosides, tannins, and triterpens. (Wollenweber et al., 1988).

Phytochemical screening of the crude extracts revealed the presence of flavonoids and polyphenolic compound as one of the major chemical constituents. Polyphenolic compounds shown activity; chemically tannins are polyphenolic compounds. (Bate-Smith E.C. 1962) Some synthetic phenolic s e.g., niclosamide, oxyclozanide and bithionol are shown to interfere with energy generation in helminth parasites by uncoupling oxidative phosphorylation. (Martin R.J. 1997).

It is possible that tannins contained in the extracts of *Albizia Amara* produced similar effects. Another possible effect of tannins is that they can bind to free protein in the gastrointestinal tract of host animal or glycoprotein on the cuticle of the parasite and cause death. (Mali R.G.et al., 2008)

Ethanolic leaves extracts of the Albizia Amara showed better activity in dose

SS INSTITUTE OF PHARMACY KUPPANUR (PO), SANKARI (TK

SALEM 453 100 L





#### PHARMACOGNOSTICAL AND PHARMACOLOGICAL ANALYSIS OF PHYTOCHEMICALS, WITH IN-VITRO EVALUATION OF DIURETIC ACTIVITIES ON BAMBUSA VULGARIS LEAVES

A Dissertation submitted to

THE TAMILNADU Dr. M.G.R. MEDICAL UNIVERSITY Chennai-600032

In partial fulfillment for the award of degree of

BACHELOR OF PHARMACY

Submitted by

T.PRADEEP

REG NO: 561997228

S.GNANAVEL

REG NO: 560020523558

K.GOKUL

REG NO: 560020523559

D.NANDHAKUMAR REG NO: 560020523561

Under the Guidance of Mrs.V.DEEPABHARATHI, M.PHARM.,

ASSISTANT PROFESSOR,

DEPARTMENT OF PHARMACY PRACTICE.

PRINCIPAL.
SS INSTITUTE OF PHARMACY.

SS INSTITUTE OF PHARMA CEPANUR (PO), SANKARI (TK).

SANKARI, SALEM (DT), TAMIL NADU - 637301

MAY-2024 (March-2024)





This is to certify that the Project entitled "PHARMACOGNOSTICAL AND PHARMACOLOGICAL ANALYSIS OF PHYTOCHEMICALS, WITH IN-VITRO EVALUATION OF DIURETIC ACTIVITIES ON BAMBUSA VULGARIS LEAVES" submitted to The Tamilnadu Dr. M.G.R Medical University, Chennai, is a bonafide project work of

T.PRADEEP

REG NO: 561997228

S.GNANAVEL

REG NO: 560020523558

K.GOKUL

REG NO: 560020523559

**D.NANDHAKUMAR REG NO: 560020523561** 

in partial fulfillment of the Degree of Bachelor of Pharmacy under my guidance and supervision of Mrs.V.Deepabharathi, M.Pharm ., Assistant professor, Department of Pharmacy practice, SS Institute of Pharmacy, Sankari, Salem.

Dr.C. Jothimanivannan, M. Pharm., ph.D.,

principal,

SS Institute of Pharmacy,

Sankari, Salem- 637301.

Date : 19/06 24

Place: SS Institute of pharmacy, Sankari

PRINCIPAL.

S INSTITUTE OF PHARMACY UPPANUR (PO), SANKARI (TX)





This is to certify that the Project entitled "PHARMACOGNOSTICAL AND PHARMACOLOGICAL ANALYSIS OF PHYTOCHEMICALS, WITH IN-VITRO EVALUATION OF DIURETIC ACTIVITIES ON BAMBUSA VULGARIS LEAVES" submitted to The Tamilnadu Dr. M.G.R Medical University, Chennai, is a bonafide project work of

T.PRADEEP

REG NO: 561997228

S.GNANAVEL

REG NO: 560020523558

K.GOKUL

REG NO: 560020523559

D.NANDHAKUMAR REG NO: 560020523561

in partial fulfillment of the Degree of Bachelor of Pharmacy under my guidance and supervision of Mrs.V.Deepabharathi, M.Pharm ., Assistant professor, Department of Pharmacy practice, SS Institute of Pharmacy, Sankari, Salem.

Mrs.V.DEEPABHARATHI., M.Pharm,

Assistant Professor,

Departmentof pharmacy practice,

SS Institute of Pharmacy, Sankari, -637301.

Date: 19.6. 202 H

Place: SS Institute of pharmacy, Sankari

PRINCIPAL.

S INSTITUTE OF PHARMACY. JUPPANUR (PO), SANKARI (TK)





The work presented in this dissertation entitled "PHARMACOGNOSTICAL AND PHARMACOLOGICAL ANALYSIS OF PHYTOCHEMICALS, WITH IN-VITRO EVALUATION OF DIURETIC ACTIVITIES ON BAMBUSA VULGARIS LEAVES" has been carried out by us under the Guidance and supervision of Mrs.V. DEEPABHARATHI, M. Pharm., Assistant Professor, Dept. of Pharmacy practice, SS Institute of Pharmacy, Sankari, during the academic year 2022-23. We further declare that this work is original and has not been submitted in part or full for the award of any other degree or diploma in any other university.

T. Jungan

Mr.PRADEEP.T (561997228)

K, 570 HUL Mr.GOKUL K (560020523559)

Date: 10.6.202 2

Place: SS Institute of pharmacy, Sankari

Signature of the Informal Examiner

10.6.201 h Date of examination Mr.GNANAVEL.S (560020523558)

D.Nordhahman Mr.NANDHAKUMAR.D (560020523561)

Crued Cooperations
Signature of the Tile of the Signature of the Tile of the Signature of t

PRINCIPAL.
SS INSTITUTE OF PHARMACY.
NIPPANUR (PO), SANKARI (TK)
SALEM - 637301

## **CONCLUSIONS**

#### Pharmacognostical studies

The pharmacognostical studies of the leaves Bambusa vulgaris was carried out to confirm its unique features. This study reveals the following,

- ➤ The macroscopical studies showed the characteristics features of Bambusa vulgaris leaves are green colored, smooth surface, faint characteristics, astringent taste and other morphological characters has been well established. Microscopic investigations are the diagnostic features of the plant and its powder analysis helps to distinguish this particular plant (leaves) in whole form and in crude powder form, Microscoical analysis of Bambusa vulgaris leaves showed the pre Physiochemical constants were determined for the leaves of Bambusa vulgaris such as Ash values, Extractive values, loss on drying. This helps in confirming the identity and purity of this plant and to detect adulterants and its nature.
- > The qualitative analysis were carried out to identify inorganic elements present in the plant.

### **Phytochemical Studies:**

- ➤ The phytochemical studies on the leaves of *Bambusa vulgaris* were carried out to bring its importance as valuable medicinal plant.
- The leaves were extracted with ethanol using soxhlet apparatus and the percentage yield was found to be 3.076% W/W
- The plant powder and extracted were subjected to preliminary phytochemical analysis. The preliminary screening analysis reveals the presence of glycosides, saponins, terpenoids, tannins and phenols, steroids, fixed oils and fats flavoneids.

> TLC analysis of all the extracts was carried out to identify the presence of phytoconstituents.

PRINCIPAL.

PRINCIPAL.

PPANUR (PO), SANKARI (TX) SALEM - 637301





# IN-VITRO ANTHELMINTIC ACTIVITY OF VARIOUS EXTRACT OF ABUTILON INDICUM IN INDIAN ADULT EARTHWORMS (PHERETIMA POSTHUMA)

A Dissertation submitted to

THE TAMILNADU Dr. M.G.R. MEDICAL UNIVERSITY
Chennai-600032

In partial fulfillment for the award of degree of BACHELOR OF PHARMACY

Submitted by

A.DHARUN REG.NO:561997210
T.DINESH REG.NO:561997212
S.NANDHAKUMAR REG.NO:560020523562
V.SATHISHKUMAR REG.NO:560020523564

Under the Guidance of

Mr.M.PRAVEEN KUMAR,M.PHARM., ASSISTANT PROFESSOR DEPARTMENT OF PHARMACOLOGY



SS INSTITUTE OF PHARMACY SANKARI, SALEM (DT), TAMIL NADU - 637301 MARCH-2024 (MAY-2024)

PRINCIPAL

SS INSTITUTE OF PHARMACY. KUPPANUR (PO), SANKARI (TK). SALEM - 637301





This is to certify that the Project entitled \*IN-VITRO ANTHELMINTIC ACTIVITY OF VARIOUS EXTRACT OF ABUTILON INDICUM IN INDIAN ADULT EARTHWORMS (PHERETIMA POSTHUMA) \*\* submitted to The Tamilnadu Dr. M.G.R Medical University, Chennai, is a bonafide project work of

A.DHARUN REG.NO:561997210

T.DINESH REG.NO:561997212

S.NANDHAKUMAR REG.NO:560020523562

V.SATHISHKUMAR REG.NO:560020523564

in partial fulfillment of the degree of Bachelor of Pharmacy under the guidance of Mr.M.PRAVEEN KUMAR, M.Pharm., Assistant Professor, Dept. of Pharmacology, SS Institute of Pharmacy, Sankari, Salem.

Dr. C. Jothimanivannan., M.Pharm., Ph.D.,

Principal, SS Institute of Pharmacy,

Sankari, Salein - 637301.

PRINCIPAL,
SS INSTITUTE OF PHARMACY,
KUPPANUR (PO), SANKARI (TK).
SALEM -637301

Place:SS Institute of Pharmacy, Sankari- 637301.

Date: 19.6.24





This is to certify that the Project entitled "IN-VITRO ANTHELMINTIC ACTIVITY OF VARIOUS EXTRACT OF ABUTILON INDICUM IN INDIAN ADULT EARTHWORMS (PHERETIMA POSTHUMA)" submitted to The Tamilnadu Dr. M.G.R Medical University, Chennai, is a bonafide project work of

A.DHARUN REG.NO:561997210

T.DINESH REG.NO:561997212

S.NANDHAKUMAR REG.NO:560020523562

V.SATHISHKUMAR REG.NO:560020523564

in partial fulfillment of the Degree of Bachelor of Pharmacy under my guidance and supervision in the Department of Pharmacology, SS Institute of Pharmacy,Sankari, Salem.

Mr.M. PRAYEEN KUMAR, M.Pharm.,

Assistant Professor, Department of pharmacology, SS Institute of Pharmacy, Sankari- 637301.

Place: SS Institute of Pharmacy, Sankari- 637301.

Date: 19.6.24

PRINCIPAL

SS INSTITUTE OF PHARMACY. KUPPANUR (PO), SANKARI (TK). SALEM - 637301

The work presented in this dissertation entitled "IN-VITRO ANTHELMINTIC ACTIVITY EXTRACT OF ABUTILON INDICUM IN INDIAN ADULT OF EARTHWORMS(PHERETIMA POSTHUMA)"was out carried S.NANDHAKUMAR(REG.NO:560020523562), V.SATHISHKUMAR(REG.NO:560020 (REG.NO:561997212), A.DHARUN (REG.NO:561997210) T.DINESH 523564), ,M.ANANTHKUMAR (REG.NO:560020523557), to The Tamilnadu Dr. M.G.R. Medical University, Chennai, in partial fulfillment for the degree of Bachelor of Pharmacy was carried out by the candidates at the department of pharmacognosy, under the supervision of Mr. M. PRAVEEN KUMAR, M.Pharm., Assistant Professor, Dept. of Pharmacology,, SS Institute of Pharmacy, Sankari, during the academic year 2022-23. We further declare that this work is original and has not been submitted in part or full for the award of any other degree or diploma in any other university.

A.DHARUN REG.NO:561997210

T.DINESH REG.NO:561997212

S. Nenella King S.NANDHAKUMAR

REG.NO:560020523562

V. Sathish burd REG.NO:560020523564

Internal Examiner

Place: SS Institute of pharmacy, Sankari

Date: 19/06/2024

SS INSTITUTE OF PHARMACY. KUPPANUR (PO), SANKARI (TK). SALEM - 637301

#### CONCLUSION

The plant Abutilon indicum proves the Anthelmintic activity in the seeds, Malvaceae family. From the results, the ethanolic extract has potent Anthelmintic activity on Pherethima posthuma., compared with the standard albendazole drug. When the easy availability of the plant, it is suggested to conducting further Invivo studies.

The plants activity is comparable to that of standard anthelmintic drug(albendazole), making it a potential natural alternative for treating intestinal worm infestations.

Further studies are needed to isolate and characterize the specific bioactive compounds responsible for the anthelmintic activity and to evaluate the plants safety and efficacy in human clinical trials.

Overall, the studies suggest that Abulilon indicum has promising anthelmintics properties, making it a valuable resource for the development of natural and sustainable treatment for intestinal worm infection.

PRINCIPAL.

SS INSTITUTE OF PHARMACY
KUPPANUR (PO), SANKARI (TK)
SALEM - 637301





## FORMULATION AND EVALUATION OF QUETIAPINE FUMARATE FLOATING TABLETS BY NON EFFERVESCENT TECHNIQUE

Dissertation submitted to

THE TAMILNADU DR. M.G.R. MEDICAL UNIVERSITY,

CHENNAI-32

In partial fulfillment for the award of degree of BACHELOR OF PHARMACY

Submitted By

ARUN.S Reg No:561997204

DHANASEKARAN.A Reg No:561997209

GOKUL PRASATH.M Reg No:561997214

GOKULNATH.M Reg No:561997215

KAMALESH.S Reg No:561997217

Under the guidance of

Mrs. M.GOMATHI M. Pharm.,

Associate Professor,

Department of Pharmaceutics.



PRINCIPAL.
SS INSTITUTE OF PHARMACY.
KUPPANUR (PO), SANKARI (TK).
SALEM -637301

SS INSTITUTE OF PHARMACY, SANKARI, SALEM (DT)-637301. DECEMBER-2023 (SEPTEMBER -2023)







This is to certify that the dissertation entitled "FORMULATION AND EVALUATION OF QUETIAPINE FUMARATE FLOATING TABLETS BY NON EFFERVESCENT TECHNIQUE" is the bonafide work carried out by Mr.Arun S, Mr.Dhanasekaran A, Mr.Gokul prasath.M, Mr.Gokulnath M, Mr.Kamalesh.S under the guidance of Mrs.M.Gomathi, M.PHARM., Associate Professor, Department of Pharmaceutics, SS Institute of Pharmacy, Sankari, Salem in partial fulfillment of requirements for the award of degree of Bachelor of Pharmacy.

This is forwarded to The Tamilnadu Dr. M.G.R. Medical University, Chennai.

Prof. Dr.C. Jothimanivannan, M.Pharm, Ph.D.,

Principal,

SS Institute of pharmacy,

Sankari,

Salem - 637301.

Date:

Place: Sankari

PRINCIPAL.

SS INSTITUTE OF PHARMACY KUPPANUR (PO), SANKARI (TK





This is to certify that the dissertation entitled "FORMULATION AND EVALUATION OF QUETIAPINE FUMARATE FLOATING TABLETS BY NON EFFERVESCENT TECHNIQUE" is the bonafide work carried out by Mr.Arun S, Mr.Dhanasekaran A, Mr.Gokul prasath.M, Mr.Gokulnath M, Mr.Kamalesh.S under my guidance and supervision. This is forwarded to The Tamilnadu Dr. M.G.R. Medical University, Chennai in a partial fulfillment of requirements for the award of degree of Bachelor of Pharmacy.

Mrs.M. Gomathi, M.Pharm,

Associate Professor,

Department of Pharmaceutics,

SS Institute of Pharmacy,

Sankari,

Salem -637301.

Date: 30/12/2023.

Place: Sankari

KUPPANUR (PO), SANKARI (TK). SALEM - 637301





We hereby declare that this dissertation entitled "FORMULATION AND EVALUATION OF QUETIAPINE FUMARATE FLOATING TABLETS BY NON EFFERVESCENT TECHNIQUE" has been carried out by us under the Guidance and supervision of Mrs.M. Gomathi, M.Pharm, Associate professor, SS Institute of Pharmacy, Sankari. In a partial fulfillment of requirements for the Bachelor of Pharmacy Degree Course. We further declare that we have not submitted this dissertation previously for the award of any degree or diploma.

Mr. ARUN.S

(561997204)

Mr. GOKUL PRASATH.M (561997214)

Date: 30.12.2023.

Place: Sankari

Signature of the Internal Examiner

Mr.DHANASEKARAN.A
(561997209)

Mr.GOKULNATH.M (561997215)

PRINCIPAL.
SS INSTITUTE OF PHARMACY
KUPPANUR (PO), SANKARI (TK)
SALEM 637801

Signature of the external toxander

Date of Examination 30/12/2023

# CHAPTER XII

# SUMMARY AND CONCLUSION

- Gastro retentive Floating drug delivery system offers a simple and practical approach to achieve increased gastric residence time (GRT)
- Quetiapine Fumarate is preferentially absorbed in the proximal small intestine (narrow absorption window), the drug displays oral bioavailability problems in conventional dosage forms.
- The objective of the present investigation was to develop gastroretentive floating matrix tablet of quetiapine fumarate to achieve controlled release and improve the absorption, by retaining the drug in stomach for a prolonged period of time.
- FT-IR and DSC studies indicated that were was no interaction between drug and excipients.
- > Floating matrix tablets were prepared by Non-effervescent technique using different concentrations of gel forming hydrophilic polymers.
- > The formulated tablets were analysed for precompression & post compression parameters, in vitro drug release, etc.
- The precompression parameter of all the formulations were within the required limit that was suitable for formulation of the tablets.
- > The postcompression parameters such as hardness, friability, uniformity in weight, & drug content of all the formulated tablets were within the acceptable limits.

> The floating lag time and duration of buoyancy were found to be satisfied

SS INSTITUTE OF PHARMACY. KUPPANUR (PO), SANKARI (TK).





# INVITRO EVALUATION OF ANTIFUNGAL POTENCY OF THE PLANT EXTRACTS OF DIFFERENT PARTS OF CELOSIA ARGENTEA LINN AGAINST CANDIDA SPECIES

A Dissertation submitted to

#### THE TAMILNADU Dr. M.G.R. MEDICAL UNIVERSITY

Chennai-600032

In partial fulfillment for the award of degree of

#### BACHELOR OF PHARMACY

Submitted by

A.PRAMESHWARAN REG.NO: 561997229

P. PRIYANKA REG.NO : 561997230

A.RAJAGURU REG.NO: 561997231

M.SURESH REG.NO : 561997242

A.VINITHA REG.NO: 561997249

Under the Guidance of

Mrs. M. VANITHA. M.PHARM.,

Assistant Professor...

DEPARTMENT OF PHARMACOLOGY



PRINCIPAL.

SS INSTITUTE OF PHARMACY.
KUPPANUR (PO), SANKARI (TK).

SALEM -637301

SS INSTITUTE OF PHARMACY

SANKARI, SALEM (DT), TAMIL NADU - 637301

SEPTEMBER - 2023 (DECEMBER - 2023)







This is certify that Project entitled "INVITRO EVALUATION OF ANTIthe to FUNGAL POTENCY OF THE PLANT EXTRACTS OF DIFFERENT PARTS OF CELOSIA ARGENTEA LINN CANDIDA SPECIES" submitted to the Tamilnadu Dr. M.G.R Medical University, Chennai, is a bonafide project work of

> A.PRAMESHWARAN REG.NO: 561997229

> P. PRIYANKA REG.NO: 561997230

> A.RAJAGURU REG.NO: 561997231

> M.SURESH REG.NO: 561997242

> A.VINITHA REG.NO: 561997249

in partial fulfilment of the degree of Bachelor of Pharmacy under the guidance

of Mrs. M.Vanitha., M.Pharm., Assistant Professor, Department of Pharmacology, SS

Institute of Pharmacy, Sankari, Salem.

Dr. C. JOTHIMANIVANNAN

Principal,

SS Institute of Pharmacy,

Sankari, Salem v637301.

Place: SS Institute of Pharmacy, Sankari- 637301.

Date: 30/12/23

SS INSTITUTE OF PHARMACY KUPPANUR (PO), SANKARI (TK).





This is to certify that the Project entitled "INVITRO EVALUATION OF ANTI-FUNGAL POTENCY OF THE PLANT EXTRACTS OF DIFFERENT PARTS OF CELOSIA ARGENTEA LINN CANDIDA SPECIES" submitted to the Tamilnadu Dr. M.G.R Medical University, Chennai, is a bonafide project work of

A.PRAMESHWARAN REG.NO: 561997229

P. PRIYANKA REG.NO: 561997230

A.RAJAGURU REG.NO: 561997231

M.SURESH REG.NO: 561997242

A.VINITHA REG.NO: 561997249

in partial fulfilment of the degree of Bachelor of Pharmacy under my guidance and supervision in the Department of Pharmacology, SS Institute of Pharmacy, Sankari, Salem.

Mrs.M.VANITHA., M.PHARM.,

Guide, Assistant Professor,

SS Institute of Pharmacy,

Sankari, Salem -637301.

Place: SS Institute of Pharmacy, Sankari- 637301.

Date: 30/12/23

SS INSTITUTE OF PHARMACY, KUPPANUR (PO), SANKARI (TK). SALEM -637301





The work presented in this dissertation entitled "INVITRO EVALUATION OF ANTI-FUNGAL POTENCY OF THE PLANT EXTRACTS OF DIFFERENT PARTS OF CELOSIA LINN CANDIDA SPECIES" was carried out by A.PRAMESHWARAN ARGENTEA (REG.NO:561997229). P.PRIYANKA (REG.NO:561997230). A.RAJAGURU M.SURESH(REG.NO:561997242) (REG.NO:561997231), A.VINITHA (REG.NO:561997249), to The Tamilnadu Dr. M.G.R. Medical University, Chennai, in partial fulfillment for the degree of Bachelor of Pharmacy was carried out by the candidates at the department of pharmacognosy, under the supervision of Mrs.M.VANITHA., M.PHARM., Assistant Professor, Department of Pharmacology, SS Institute of Pharmacy, Sankari, during the academic year 2022-23. We further declare that this work is original and has not been submitted in part or full for the award of any other degree or diploma in any other university.

Convener of Examination

Place: SS Institute of pharmacy, Sankari

Date: 30/12/23

A.PRAMESHWARAN (REG.NO: 561997229):

P.PRIYANKA (REG.NO: 561997230): (

(REG.NO: 561997231): A. Qui SS INSTITUTED A.RAJAGURU

M.SURESH (REG.NO: 561997242): M. G.

A.VINITHA (REG.NO: 561997249: A. Vinita

# CHAPTER X 10. SUMMARY AND CONCLUSION

The dried plant of Celosia argentea belonging to the family Amaranthaceae has been examined to gain an insight of its phytochemical and pharmacological behaviors.

The phytochemical investigation of ethanolic extract of Celosia argentea plant showed the presence of Flavonoids, Alkaloids, Saponins, Steroids, Triterpenoides, Glycosides, Tannins.

The ethanolic extract of dried Celosia argentea plant was also tested for its in vitro antifungal activity against the candida aspergillus, the extract also showed significant anti-fungal activity.

In conclusion, ethanolic extracts of Celosia argentea showed significant antifungal activity against the fungal species candida aspergillus by Invitro studies.

The findings of the present study concluded that the ethanolic extracts of Celosia argentea can effectively control the growth of fungi by invitro studies.

These plant extracts showed excellent inhibitory activity against the fungal species, Candida aspergillus.

Among these ethanolic extracts possessed superior antifungal activity extract of Celosia argentea

The present study justified the claimed used of plants in the traditional system of medicines to treat various fungal infections caused by the Candida species.

However, further studies are needed to better evaluate the potential effortiveness of the crude extracts as the Antifungal agents.

PRINCIPAL.

S INSTITUTE OF PHARMACY SUPPANUR (PO), SANKARI (TX