



J.K.K. MUNIRAJAH MEDICAL RESEARCH FOUNDATION

ANNAL J.K.K. SAMPOORANI AMMAL COLLEGE OF PHARMACY

Ethirmedu, B. Komarapalayam-638 183, Namakkal Dist. Tamilnadu,India.

Approved by : Pharmacy Council of India. New Delhi & Affiliated to The Tamilnadu Dr. M.G.R Medical University, Chennai.

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Contact No : +919789456750, +919943066944, +919943069944.

Dr.N. SENTHILKUMAR, M.Pharm., Ph.D.,

Principal

B.Pharm Students under taking **Project work/Field work /**
Internship for the Academic Year 2022-2023.

S.NO	DESCRIPTION
1	Certificate of Head of Institution
2	List of B.Pharm Students under taking Project work/Field work / Internship-HOI
3	List of Students under taking Project work/Field work / Internship.



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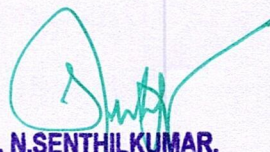
Principal

TO WHOMSOEVER IT MAY CONCERN

Number of Students undertaking **Project work/Field work / Internship** for the Academic Year 2022-2023 is **95**.

The Students Participated in More than one activity has been counted as **ONE** only.




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S. No	Reg.No	Name of the Student	Year	Project Work-Topic	Field work	Internship
1.	561858033	J K LAVITHRAN	IV	ANTHELMINTIC ACTIVITY OF PERGULARIA DAEMIA FRUITS	-	-
2.	561858061	K SATHYAMOORTHI	IV	INVITRO ANTI INFLAMMATORY AND ANTI ALZHEIMER EFFECT OF ETHANOLIC EXTRACT OF CALAMUS ROTANG LEAVES	-	-
3.	561858074	D SRINIVASAN	IV	PRELIMINARY PHYTOCHEMICAL AND PHARMACOGNOSTICAL EVALUATION OF EUPHORBIA	-	-
4.	561858084	I VIGNESH	IV		-	-
5.	561858066	A SNEHA	IV		-	-
6.	561858070	B SRIDHAR	IV		-	-
7.	561858076	M SUBASH	IV		-	-
8.	561858087	S VIJAYANAGARAJ	IV		-	-
9.	561858008	K BOOPATHI	IV		-	-
10.	561858040	M K NAZIM	IV		-	-
11.	561858049	V G PRAVEEN	IV		-	-
12.	561858065	R SIVARAJA	IV		-	-



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				HIRTA LINN.		
13.	561858009	R CHANDRASEKAR	IV	PREPARATION	-	-
14.	561858022	D JAYAPRAKASH	IV	OF HERBAL	-	-
15.	561858083	K VENKATESH	IV	MOUTHWASH	-	-
16.	561858016	K YOGESH	IV	FORMULATION	-	-
17.	561858044	G PRAKASH	IV	TO FIND OUT	-	-
18.	561858054	R RANJITH	IV	THE	-	-
19.	561858055	E RISHI	IV	STRENGTH	-	-
20.	561858086	A VIJAY	IV	AND	-	-
				WEEKNESS OF	-	-
				DRUG		
				REGULAROTY		
				AFFAIRS IN		
				PHARMACEUTI		
				CAL		
				INDUSTRYS		
21.	561858020	K INBAKUMAR	IV	FORMULATION	-	-
22.	561858031	P KAVIN	IV	AND	-	-
23.	561858048	M PRAVEEN	IV	EVALUATION	-	-
				OF CARBONYL		
				ION		
24.	561858079	S SUGANTH	IV	SUSPENSION	-	-
				USING		
				SELECTED		
				NATURAL		
				SUSPENDING		
				AGENT		
25.	561858037	E MUTHUKUMAR	IV	INVITRO	-	-
26.	561858047	K PRASANTH	IV	ANTHELMINTI	-	-
27.	561858005	M KANAGARAJ	IV	C ACTIVITY OF	-	-
28.	561858007	S KARTHICK	IV	PHYSALIS	-	-
				LAGASCAE		
29.	561958101	K AMRISH	IV	FORMULATION	-	-
				AND INVITRO		
				EVALUATION		



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30.	561958112	P RAJAGANAPATHI	IV	OF MUCOADHESIVE BUCAL TABLETS OF LOSARTAN POTASSIUM USING SYNTHETIC AND NATURAL POLYMER	-	-
31.	561858085	S VIGINESH	IV	FORMULATION AND EVALUATION OF OFLOXACIN MICROSPHERES BY ETHYL CELLULOSE AS A POLYMER	-	-
32.	561858024	M K JISHAN	IV	DRUG UTILIZATION AND EVALUATION OF PROTON PUMP INHIBITOR IN GENERAL MEDICINE WARD OF A TERTIARY CARE HOSPITAL	-	-
33.	561858058	L SHAKTHIVEL	IV	ASSESSMENT OF KNOWLEDGE ATITUDE AND PRACTICE OF	-	-
34.	561858090	M ZACHARIAH CHRISTOPHER	IV		-	-
35.	561858041	N N NISHAL NIXSON	IV		-	-
36.	561858062	R SELVAGANAPATHY	IV		-	-
37.	561858004	M BHARATH	IV		-	-
38.	561858032	S KAVIN	IV		-	-
39.	561858053	V N RAJA	IV		-	-
40.	561958110	PRAVEEN CHANDRAMANI	IV		-	-



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				COMMUNITY PHARMACIST TO WORK A PROVISION OF PHARMACEUTICAL CARE		
41.	561858014	B DINESH	IV	ANTHE	-	-
42.	561858023	S JEEVA	IV	LMINTIC	-	-
43.	561858059	M SANJAY KUMAR	IV	ACTIVITY OF	-	-
44.	561858067	P SOMU	IV	NYCTINTHES ARBOR TRISTIS (LINN)	-	-
45.	561858010	K C DEEBAK	IV	MOLECULAR	-	-
46.	561858015	M DINESH MOORTHY	IV	DOCKING STUDYS OF PHYTOCHEMIC	-	-
47.	561858016	P ELAVARASAN	IV	AL FROM LANTANA CAMARA FOR IDENTIFICATIO	-	-
48.	561958115	E VIKRAMA KARTHIK	IV	N OF ANTI HYPRER LIPIDIMIC ACTIVITY	-	-
49.	561858013	P DINESH KARTHIK	IV	OPTIMIZATION	-	-
50.	561858030	G KAVIYARASU	IV	AND	-	-
51.	561858034	N MADHAN KUMAR	IV	VALIDATION	-	-
52.	561858072	S SRIDHAR	IV	OF UV SPECTROSCOPY SIMULTANIOUS DETERMINATI ON OF SORBIC ACID AND GELATIN PRESENT IN	-	-



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				MARKETED MILK PRODECT		
53.	561858011	P DEEPIKA	IV	ASSEMENT	-	-
54.	561858039	S NARMATHA	IV	OF QUALITY	-	-
55.	561858052	S PRIYANKA	IV	OF LIFE USING	-	-
56.	561958114	P SWETHA	IV	QOL QUESTIONNIRE IN HANDLOOM WEAVING PEOPLES AT NAMAKKAL DISTRICT	-	-
57.	561858002	M AKILESH	IV	KNOWLEDGE,	-	-
58.	561858038	S NANDHAKUMAR	IV	ATTITUDE	-	-
59.	561858078	G SUBASHKARAN	IV	AND PRACTICE	-	-
60.	561858082	E VALLAL	IV	ON OVER THE COUNTER DRUGS AMONG PARAMEDICAL AND NON PARAMEDICAL STUDENTS: A FACILITY/BAS ED CROSS SECTIONAL STUDY	-	-
61.	561858001	ACHUKA LORRAINE KWAMBOKA	IV	SIMULTANEOU S SPECTO	-	-
62.	561858006	G BHARATH	IV	PHOTOMETRIC	-	-
63.	561858007	G BHAVADHARANI	IV	ESTIMATION	-	-
64.	561858064	S SETHIL KUMAR	IV	OF PARACETAMO L AND LEVOCITRAZIN E	-	-



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				DIHYDROCHLO RIDE IN BULK DRUGS		
65.	561858029	M KAVIPRIYA	IV	FORMULATION	-	-
66.	561858036	N MOHANDAS	IV	AND	-	-
67.	561858073	T SRIMATHI	IV	EVALUATION	-	-
68.	561858077	S SUBASH	IV	OF EXTENDED RELEASE FLOATING MATRIX TABLET OF METOPRALOL	-	-
69.	561858042	N PARTHIBAN	IV	PRELIMINARY	-	-
70.	561858080	E SURYAPRAKASH	IV	PHYTOCHEMIC	-	-
71.	561858002	V ARUN KUMAR	IV	AL SCREENING	-	-
72.	561858013	B SARANKUMAR	IV	AND PHARMACOLO GICAL EVALUATION OF PISONIA ACULEATA	-	-
73.	561858026	P KALAISELVAN	IV	IN VITRO ANTI-	-	-
74.	561858027	S A KALIRAJ	IV	INFLAMMATO	-	-
75.	561858075	SRINIVASAN R	IV	RY ACTIVITY	-	-
76.	561858089	C P UVARAJ	IV	OF MEDICINAL PLANTS	-	-
77.	561858003	P ARCHANA	IV	DESIGN AND	-	-
78.	561858051	M PRIYADHARSHINI	IV	EVALUATION	-	-
79.	561858081	S THARANESH	IV	OF FLOTTING	-	-
80.	561858088	S VINITHA	IV	DRUG DELIVERY SYSTEM CONTAINING CEFDINIR ANTIBIOTICS	-	-
81.	561858018	M GOKULPRIYA	IV	EVALUATION	-	-



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82.	561858057	S ROHITSUNDHAR	IV	OF INVITRO ANTIMICROBI AL ACTIVITY IN JATROPHA GOSSYPIFOLI A	-	-
83.	561958108	M MANIKANDAN	IV		-	-
84.	561758089	S SURESHMANI	IV	INVITRO ANTI	-	-
85.	561858025	JOHNPAULE	IV	DIABETIC	-	-
86.	561958106	N KARTHICK	IV	ACTIVITY OF ECBOLIUM VIRIDE (FORSK) ALSTON LEAVES	-	-
87.	561858045	M PRAKASHRAJ	IV	ASSESMET OF COMMUNITY PHARMACIST PRACTICE AND PATIENT COUNCELLING EFFORTS DURING DISPENSING IN AND AROUND KOMARAPALA YAM	-	-
88.	561958103	P BOOPATHIRAJ	IV		-	-
89.	561858043	R PRADEEP	IV	INVITRO	-	-
90.	561858063	R SELVAMANI	IV	ANTIINFLAMM ATORY	-	-
91.	561958111	T PUDHUVASANTH	IV	ACTIVITY OF NATURAL PRODUCT	-	-
92.	561858017	G GOUTHAM	IV	FORMULATION	-	-
93.	561858028	M KARAN	IV	AND	-	-



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94.	561858050	S PRETHY	IV	EVALUATION OF ORAL SUSPENSION	-	-
95.	561858056	V ROSHINI	IV	CONTAINING CEFUROXIME AXETIL	-	-



**Dr. N.SENTHILKUMAR,
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SIMULTANEOUS SPECTROPHOTOMETRIC ESTIMATION OF PARACETAMOL
AND LEVOCETRIZINE DIHYDROCHLORIDE IN BULK DRUGS

A Dissertation submitted to

THE TAMIL NADU Dr.M.G.R MEDICAL UNIVERSITY,
CHENNAI-32

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

Submitted by:

ACHUKA LORRAINE KWAMBOKA	561858001
G.BHARATH	561858006
G.BHAVADHARANI	561858007
S.SENTHIL KUMAR	561858064

Under the supervision & guidance of

Ms. P.GAYATHIRI, M.Pharm

ASSISTANT PROFESSOR



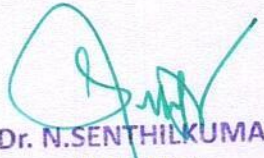
DEPARTMENT OF PHARMACEUTICAL ANALYSIS

JKKMMRF'S ANNAI JKK SAMPOORANI AMMAL COLLEGE OF PHARMACY,

KOMARAPALYAM-638183

MARCH 2023




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NAMAKKAL DT-638183 TAMILNADU



CERTIFICATE

This is to certify that the dissertation work entitled "SIMULTANEOUS SPECTROPHOTOMETRIC ESTIMATION OF PARACETAMOL AND LEVOCETRIZINE DIHYDROCHLORIDE IN BULK DRUGS" is the bonafide work carried out by,

ACHUKA LORRAINE KWAMBOKA	561858001
BHARATH G	561858006
BHAVADHARANI G	561858007
SENTHIL KUMAR S	561858064

under the guidance and supervision of Ms.P.GAYATHIRI., M.Pharm., Assistant Professor, in the Department of Pharmaceutical Analysis.

This is forwarded to the Tamil Nadu Dr.M.G.R Medical University, Chennai, for the partial fulfillment of requirements for the Degree of Bachelor of Pharmacy (2022-2023)

[Signature]
PRINCIPAL
10/4/23

[Signature]
HEAD OF THE DEPARTMENT
10/4/23

[Signature]
GUIDE

Place : Komarapalayam

Date : 12/4/23



EVALUATED ON: 12/4/23

EVALUATOR (1):
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PROFESSOR, DEPT OF PHARMACOLOGY,
DR SEKAR, SS INSTITUTE OF PHARMACY,

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Dr. N.SENTHILKUMAR,
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DECLARATION

The work presented in this dissertation entitled "SIMULTANEOUS SPECTROPHOTOMETRIC ESTIMATION OF PARACETAMOL AND LEVOCETRIZINE DIHYDROCHLORIDE IN BULK DRUGS" was carried out by us under the guidance of Ms.P.GAYATHIRI, M.Pharm., Assistant professor, Department of Pharmaceutical Analysis, JKKMMRF's Annai JKK Sampoorani Ammal College of Pharmacy, Komarapalayam. This work is Original and has not been submitted in part or full for the award of any other degree of diploma of any other university.

ACHUKA LORRAINE KWAMBOKA
G.BHARATH
G.BHAVADHARANI
S.SENTHIL KUMAR

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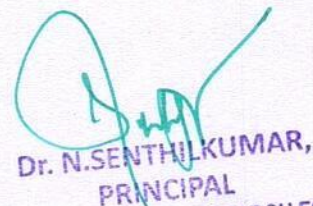
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CHAPTER 7

SUMMARY AND CONCLUSION

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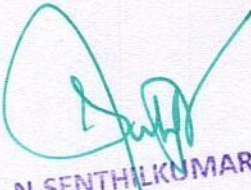



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Submitted by:

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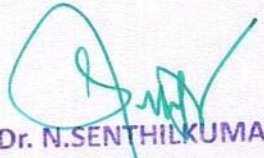
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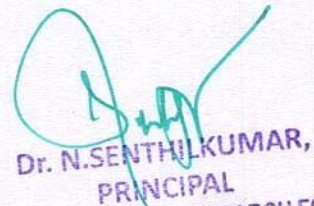
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CHAPTER 7

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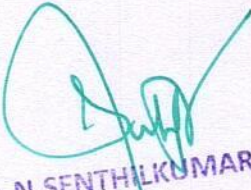



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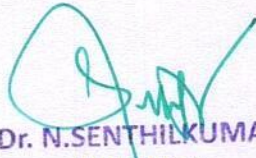


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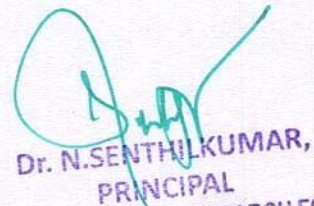
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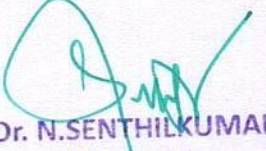


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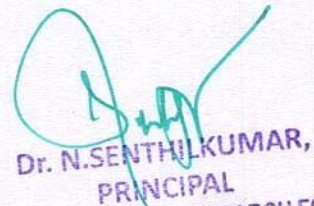
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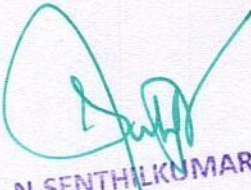



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KNOWLEDGE, ATTITUDE, AND PRACTICE ON OVER THE
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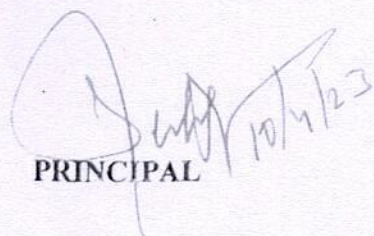
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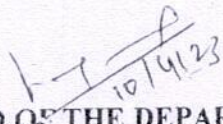


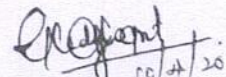
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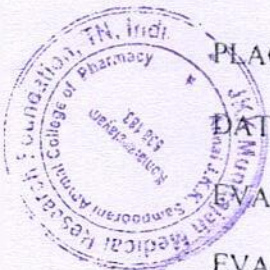
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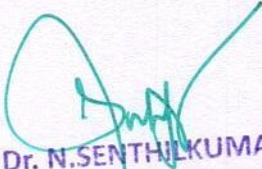
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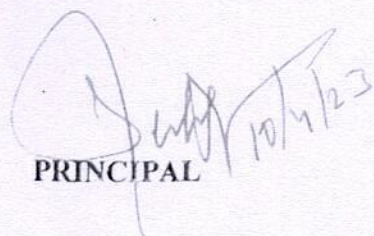
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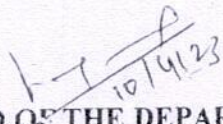


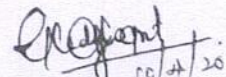
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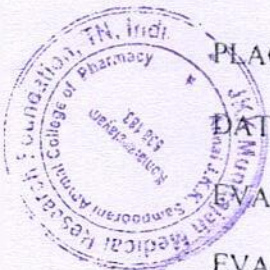
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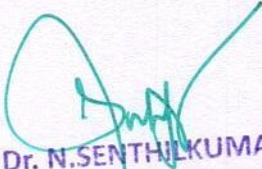
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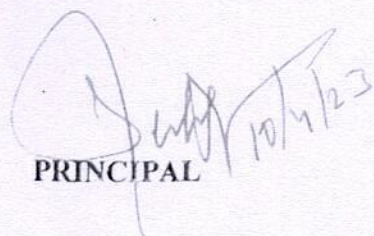
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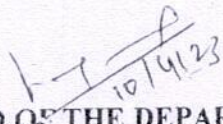


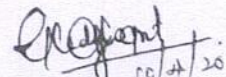
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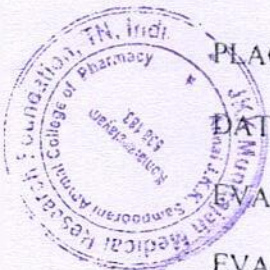
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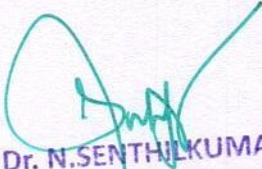
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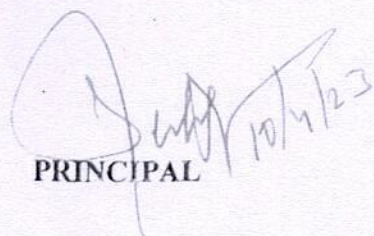
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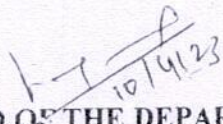


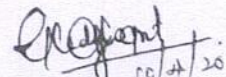
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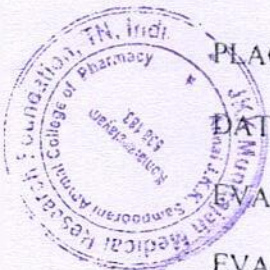
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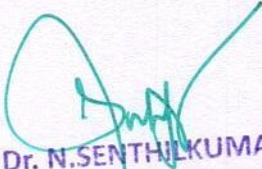
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**DESIGN AND EVALUATION OF FLOATING DRUG DELIVERY SYSTEM
CONTAINING CEFDINIR ANTIBIOTIC**

A Dissertation submitted to

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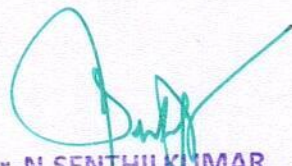
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SUMMARY AND CONCLUSION

Drug delivery system plays a pivotal role in the therapeutic efficacy of any drug therapy. This work was aimed to prepare and evaluate a novel drug delivery system of a therapeutically effective and proven drug.

In this work, floating drug delivery administration has been selected because floating drug delivery administration appears to be an ideal for the systemic drug delivery.

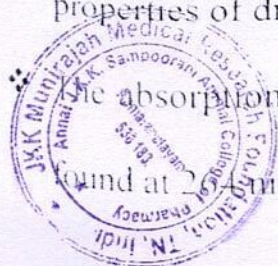
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- ❖ This project of final blend of Cefdinir floating matrix tablets were studied for angle of repose, tapped density, bulk density, compressibility index and Hausner's ratio. The value of Carr's Index from 5-16 indicates excellent to good flow of powder. Similarly value of Hausner ratio (< 1.25) and Angle of repose ($< 25^\circ$) indicates good flow

Properties of drug.

The absorption maximum of Cefdinir was studied using UV spectrophotometry and found at 280 nm as the max. Using the absorption maxima, linearity was performed and



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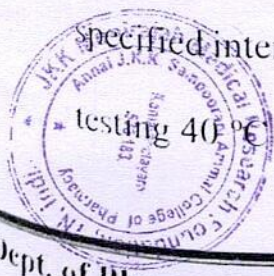
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- ❖ Eleven batches of floating tablet were formulated using Cefdinir 250 mg with hydrophilic polymers, effervescent agent, filler, lubricant and anti-adherent with or without different proportions.
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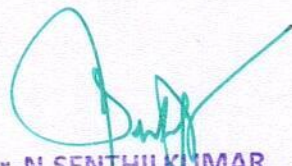
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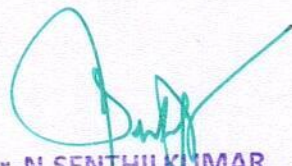
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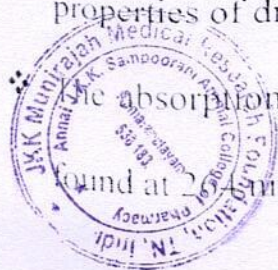
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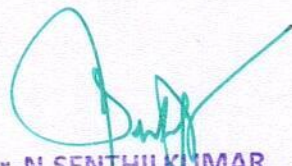
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SUMMARY AND CONCLUSION

Drug delivery system plays a pivotal role in the therapeutic efficacy of any drug therapy. This work was aimed to prepare and evaluate a novel drug delivery system of a therapeutically effective and proven drug.

In this work, floating drug delivery administration has been selected because floating drug delivery administration appears to be an ideal for the systemic drug delivery.

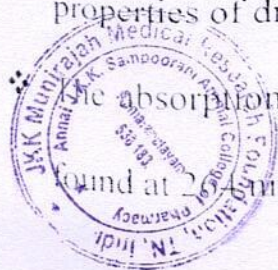
Cefdinir is an effective simple antibiotic drug. Therefore the objective of this thesis was to develop a new floating drug delivery system of Cefdinir, which can be administered through the oral route, particularly to achieve rapid relief by fast onset of action; to increase bioavailability and to avoid the second dose of administration.

The work started with the preformulation followed by different trials of formulations. The compatibility study observations showed that, chemically Cefdinir remained unaffected by excipients.

- ❖ This project of final blend of Cefdinir floating matrix tablets were studied for angle of repose, tapped density, bulk density, compressibility index and Hausner's ratio. The value of Carr's Index from 5-16 indicates excellent to good flow of powder. Similarly value of Hausner ratio (< 1.25) and Angle of repose ($< 25^\circ$) indicates good flow

Properties of drug.

The absorption maximum of Cefdinir was studied using UV spectrophotometry and found at 270 nm as the max. Using the absorption maxima, linearity was performed and



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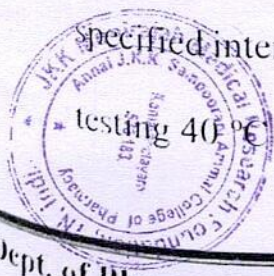
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- plotted from the concentrations of 5-30 $\mu\text{g/ml}$ was performed and the regression coefficient of the curve was found to be 0.9976.
- ❖ Eleven batches of floating tablet were formulated using Cefdinir 250 mg with hydrophilic polymers, effervescent agent, filler, lubricant and anti-adherent with or without different proportions.
 - ❖ Various formulations show good flow properties. Results of angle of repose ($210.22' - 240.18'$), Bulk density (0.337-0.372), tapped density (0.384-0.423), Carr's index (11.25-17.33) and Hausner's ratio (1.109-1.195) shows satisfactory results, which is need for better bioavailability.
 - ❖ Evaluation results for hardness of various batches of prepared formulations (10.2 – 11.1 kg / sq cm) and friability (0.205 – 0.325 %) indicates that the floating tablets having sufficient strength to withstand the physical abrasion. Tablets of all the batches were passed in the weight variation test as per the limits prescribed in IP (5% deviation is allowed for average weight of tablet $X \geq 250$ mg).
 - ❖ *In vitro* dissolution study Formulation F6 is selected as optimized formulation among all the formulations, which shows 94.91 % sustained release at the end of 12 h. Formulation F6 is selected as optimized formulation among all the formulations, which swelled to 121.38 % at the end of 8 hours.
 - ❖ The selected formulation were packed in wide mouth bottle. They were then stored at $25^\circ\text{C} \pm 2^\circ\text{C}/60\% \text{RH}$, $40^\circ\text{C} \pm 2^\circ\text{C}/75\% \text{RH}$ for 3 months chamber and also evaluated for their physical appearance, drug content, drug dissolution and other studies at specified intervals of time. Long term testing $25^\circ\text{C} + -2^\circ\text{C}/60\% \text{RH} + -5\%$ accelerated testing $40^\circ\text{C} + -20^\circ\text{C}/75\% \text{RH} + -5\%$ for months registered conditions $5^\circ\text{C} + -3^\circ\text{C}$.

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Stability studies for the present work carried out at 25 °C + -2 °C/60% RH, 40 °C + -2 °C/75% RH for the selected formulation for three months and 5 °C + -3 °C refrigerated conditions for 14 days.



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All the extracts of the drug was subjected to different tests for detecting the presence of various phytoconstituents present in the drug, which revealed the presence of alkaloids, flavanoids, terpenoids, saponins, sterols, carbohydrates, resins and tannins. Preliminary phytochemical analysis indicated a high percentage of quercetine and flavonoids and this may be one of the reasons behind the antioxidant, antidiabetic and hepatoprotective activity of this plant.




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SANKARI, SALEM (DT)



DECLARATION

The work described in this book was carried out by us in J.K.K.Munirajahh Medical Research Foundation, College of Pharmacy, B.Komarapalayam, under the Guidance of **Mrs. B. ANBARASI, M.Pharm., Ph.D.** Professor, Department of Pharmaceutical Chemistry. J.K.K.Munirajahh Medical Research Foundation, College of Pharmacy, B.Komarapalayam.

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10/4/23
K. BOOPATHI

M.K. Nazim
10-4-23
M.K. NAZIM

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V.G. PRAVEEN

R. Sivaraja
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SUMMARY AND CONCLUSION

Our study has focused on examining Preliminary phytochemical and Pharmacognostic study of *Euphorbia hirta* Linn. Normalization of the macroscopic and microscopic characteristics of the *Euphorbia hirta* Linn. Drug remains essential in other to identify and avoid falsification. The sections have a spinal cord parenchyma, a phloem, xylem and collenchyma. It is observed in a thin sheet cuticle on the upper epidermis and the lower epidermis. Also palisade tissue above the spongy parenchyma. Thus leaves green in colour, emit a very fragrant and aromatic mintyodor when bruised. The powdery appearance of the crushed leaves, with a coarse texture. The micrograph performed on the powder has highlighted a number of characteristic elements namely: the epidermal cells, the anomocytic type of stomata, the spiral beams, the cystoliths, the trichomes, spiral wooden beam, oily cells, are diagnostic substances for drugs of plant origin. The study of physicochemical parameters such as moisture content and ash values are useful as it determines the physiological and non physiological state of ash, this will help to determine the possibility of microbial growth and lastly contaminant or impurities.

All the extracts of the drug was subjected to different tests for detecting the presence of various phytoconstituents present in the drug, which revealed the presence of alkaloids, flavanoids, terpenoids, saponins, sterols, carbohydrates, resins and tannins. Preliminary phytochemical analysis indicated a high percentage of quercetine and flavonoids and this may be one of the reasons behind the antioxidant, antidiabetic and hepatoprotective activity of this plant.




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TLC profile of Methanolic extract showed three spots under UV 254 nm and the R_f values of the spots are 0.28, 0.45 and 0.74. The present report revealed that the pharmacognostic standards for future identification and authentication of genuine plant material by the isolation of active phytomolecules such as quercetin is a highly reputed drug used in Ayurveda. Barring the anatomical details and preliminary phytochemical screening, rest of the pharmacognostical parameters, gives us the clue that it can be cashed economically as well to improve the standard of health in the developing countries.



A handwritten signature in green ink, appearing to read "Dr. N. Senthil Kumar".

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PREPARATION OF HERBAL MOUTHWASH

FORMULATION

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CHENNAI - 32.

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Submitted by

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Under the supervision & guidance of

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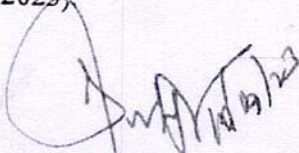
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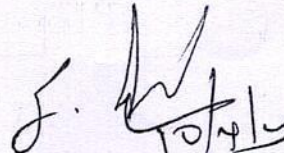
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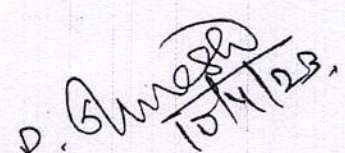
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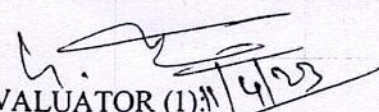

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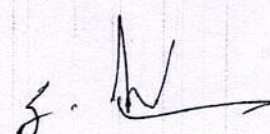

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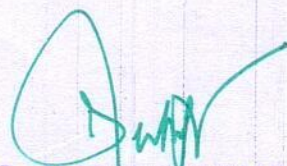
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9) CONCLUSION

- Mouthwashes can be used for various conditions, depending on the lesions present in the oral cavity.
- Mouthwash is designed to help improve your oral hygiene and protect your gums from disease.
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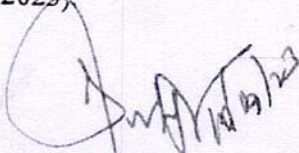
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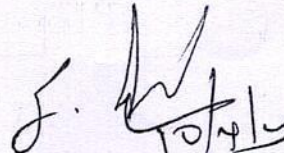
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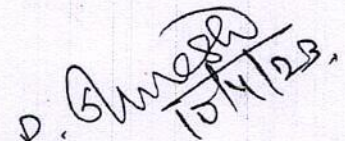
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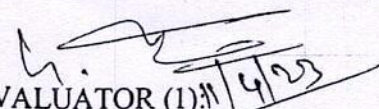

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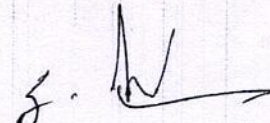

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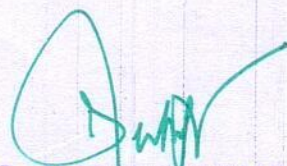
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9) CONCLUSION

- Mouthwashes can be used for various conditions, depending on the lesions present in the oral cavity.
- Mouthwash is designed to help improve your oral hygiene and protect your gums from disease.
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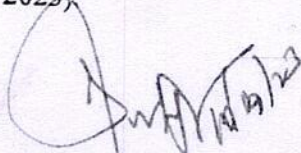
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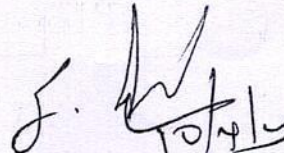
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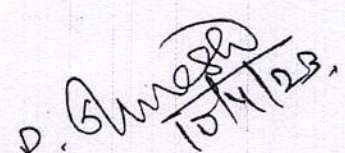
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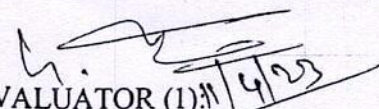

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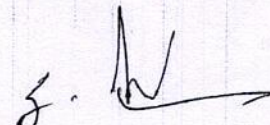

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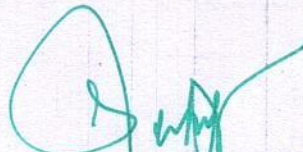
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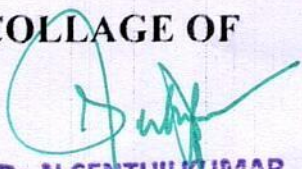


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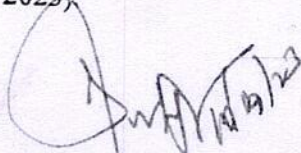
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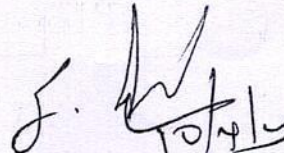
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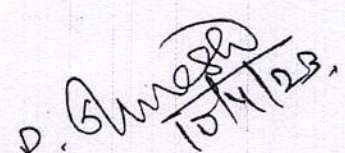
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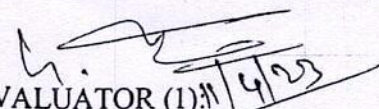

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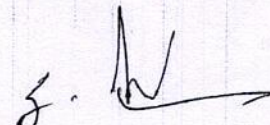

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ETHIRMEDU, KOMARAPALAYAM - 638 183.
NAMAKKAL DISTRICT. TAMILNADU. INDIA.

DECLARATION

We hereby declare that this thesis entitled "PREPARATION OF HERBAL MOUTHWASH FORMULATION", was carried out by us, under the guidance of Mr. RSURESH.,M.PHARM, ASSOCIATE PROFESSOR, Department of Pharmaceutics, JKKMMRF'S- Annai JKK Sampoorani Ammal College of Pharmacy, Komarapalayam, for the partial fulfilment of the requirement for the degree of bachelor of pharmacy.

We further declare that this work has not been submitted earlier in part or full for the award of any degree or diploma to this or any other University. The information furnished in this thesis is genuine to the best of our knowledge and belief.

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DATE: 10 04. 2023



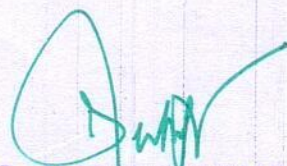
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9) CONCLUSION

- Mouthwashes can be used for various conditions, depending on the lesions present in the oral cavity.
- Mouthwash is designed to help improve your oral hygiene and protect your gums from disease.
- An attempt has been made to stipulate variety of the commonly available herbs and plants, and certain fruits, which are readily available, and could be used as effective mouthwashes by all.
- If people can use and promote such cost-effective measures of maintaining the oral health which are innocent of any untoward side effects, it should help in overcoming some common dental problems.




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**MOLECULAR DOCKING STUDIES OF PHYTOCHEMICALS FROM
LANTANA CAMARA FOR IDENTIFICATION OF ANTI-
HYPERLIPIDEMIC ACTIVITY**

Dissertation Submitted to

**THE TAMILNADU DR. M. G. R. MEDICAL UNIVERSITY,
CHENNAI-32**

In partial fulfillment of the requirement for the award of the degree of

BACHELOR OF PHARMACY

Submitted by:

DEEBAK. K.C **561858010**

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ELAVARASAN. P **561858016**

VIKRAMA KARTHIK. E **561958115**

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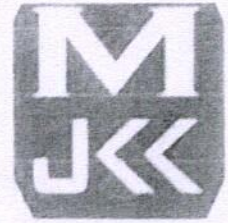
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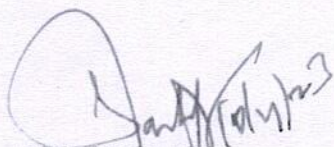
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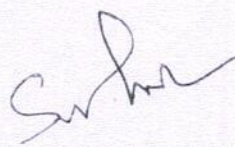


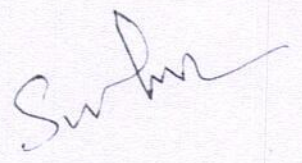
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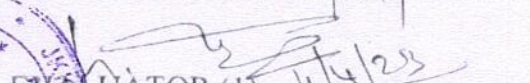
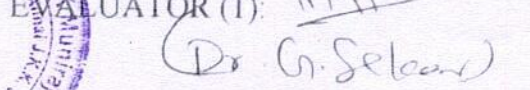

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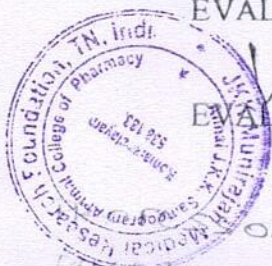
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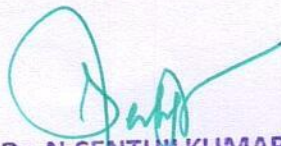
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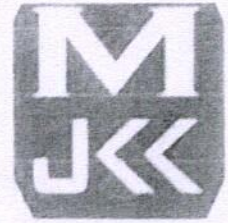
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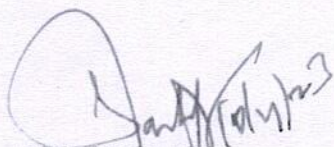
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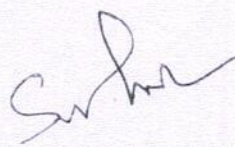


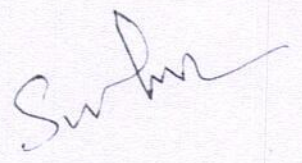
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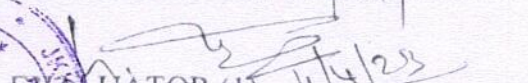
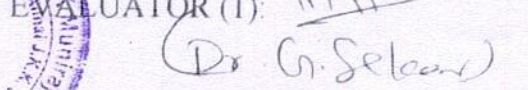

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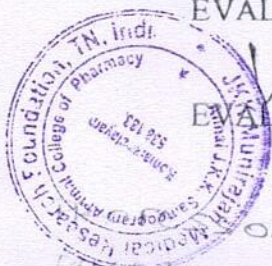
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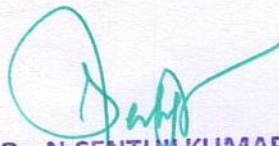
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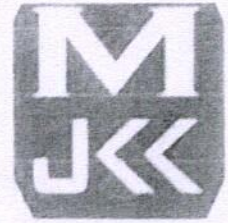
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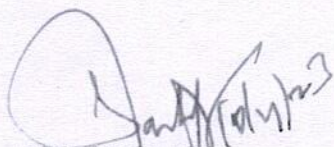
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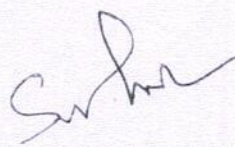


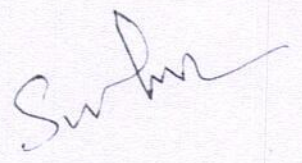
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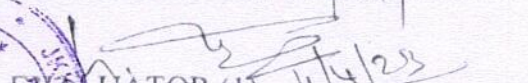
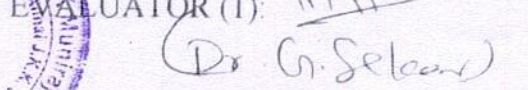

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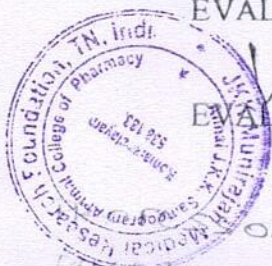
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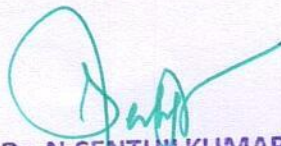
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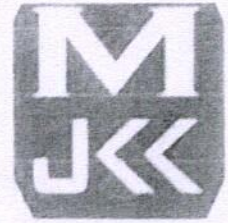
MARCH-2023



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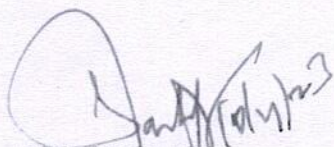
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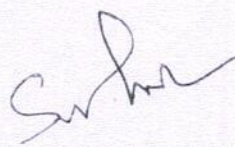


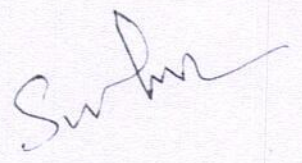
CERTIFICATE

This is to certify that the dissertation work entitled "MOLECULAR DOCKING STUDIES OF PHYTOCHEMICALS FROM LANTANA CAMARA FOR IDENTIFICATION OF ANTI-HYPERLIPIDEMIC ACTIVITY" is the bonafide work carried out by, DEEBAK. K.C (561858010), DINESH MOORTHY. M (561858015), ELAVARASAN. P (561858016), VIKRAMA KARTHIK. E (561958115) under the guidance and supervision of Dr. V. SURESH., M.Pharm., Ph.D., Professor and Head., Department of Pharmacology.

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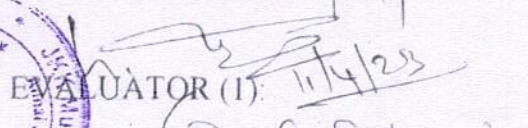
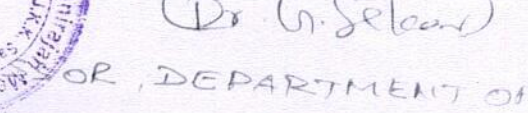

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PLACE: KOMARAPALAYAM

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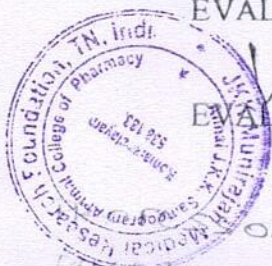
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DECLARATION

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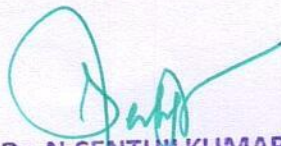
CONCLUSION

The goal of this research is to compare docking scores which is obtained from the test compounds and standard drug. In order to gather the knowledge about it's phytochemical and In-silico research, ethanolic flower extract of *Lantana camara* as studied. The ethanolic flower extract of *Lantana camara* has been the subject of phytochemical research that have revealed the presence of flavonoids, terpenoids, steroids, proteins, amino acids, carbohydrates, phenols, tannins, quinones. When used against several disease, the flower extract of *Lantana camara* was found to have anti-hyperlipidemic properties.

Hypercholesterolemia has been linked to cardiovascular disease or coronary heart disease. Statins, potential inhibitors of HMG-CoA reductase, can be explored as suitable drug candidates for treatment of hypercholesterolemia. In the current work, synthetic statin rosuvastatin and extracted test compound were studied for their interaction with HMG-CoA reductase. The three-dimensional molecular interactions between statins and HMG-CoA reductase were mimicked using Schrödinger software to understand the structural based functionality of statin and molecular mechanism of interactions at the active site of the enzyme. From molecular docking interactions and this kind of studies with the help of computer-aided drug discovery tools help in the identification of target-ligand interaction at the molecular level, hence give a deeper insight for further optimization of the drug molecule with better pharmacokinetics profiling.

In conclusion our reports are clearly demonstrate that ethanolic extract of *Lantana camara* flower shows an anti-hyperlipidemic activity when compared to standard drug. This research work can be going performed detail in future work.




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ASSESSMENT OF QUALITY OF LIFE USING QOL QUESTIONNAIRE IN
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CHENNAI – 32.

In partial fulfillment for the award of the degree of
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Submitted by

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NARMATHA.S (Reg.No:561858039)
PRIYANKA.S (Reg.No:561858052)
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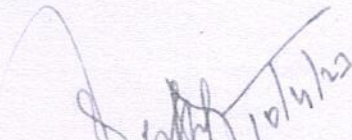
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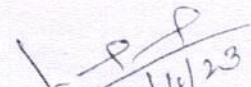
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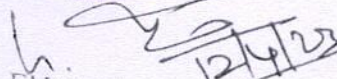

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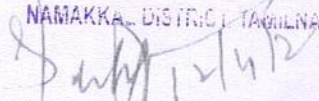


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CONCLUSION

- The physical and mental well-being is a parameter to measure the quality of life of the workers.
- It was found that the physical well-being and mental well-being of the workers are affected to a great extent. Thus the study was done to assess the quality of life of the workers and how to improve it.
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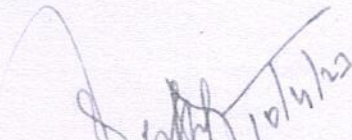
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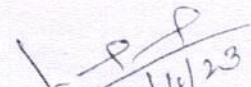
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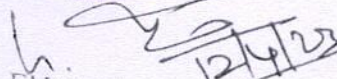

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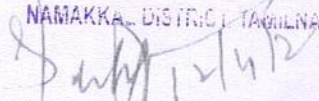


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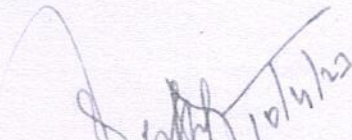
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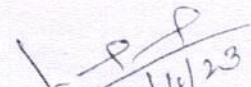
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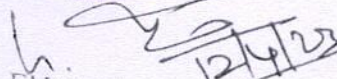

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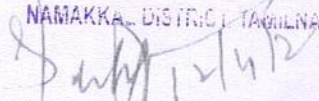


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NAMAKKAL DISTRICT, TAMILNADU, INDIA.

ASSESSMENT OF QUALITY OF LIFE USING QOL QUESTIONNAIRE IN
HANDLOOM-WEAVING PEOPLES AT NAMMAKKAL DISTRICT

Dissertation submitted to

THE TAMIL NADU Dr. M.G.R. MEDICAL UNIVERSITY
CHENNAI – 32.

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

Submitted by

DEEPIKA.P (Reg.No:561858011)
NARMATHA.S (Reg.No:561858039)
PRIYANKA.S (Reg.No:561858052)
SWETHA.P (Reg.No:561958114)

Under the Guidance of

Dr. K. C. ARUL PRAKASAM, M.Pharm., Ph.D.
Professor and Head of Department



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MARCH -2023



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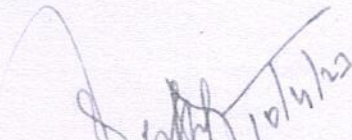
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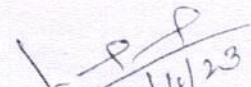
CERTIFICATE

This is to certify that the dissertation work entitled **ASSESSMENT OF QUALITY OF LIFE USING QOL QUESTIONNAIRE IN HANDLOOM-WEAVING PEOPLE'S AT NAMMAKAL DISTRICT** is the bonafide work carried out by **Ms. DEEPIKA.P (Reg.No:561858011), Ms. NARMATHA.S (Reg.No: 561858039), Ms. PRIYANKA.S (Reg.No:561858052) and Ms. SWETHA.P (Reg.No:561958114)**, under the guidance and supervision of **Dr. K.C.Arul Prakasam, M.Pharm., Ph.D., Professor and Head, in the Department of Pharmacy Practice.**

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 HEAD OF THE DEPARTMENT

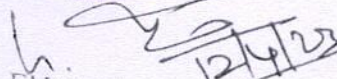

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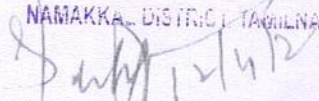


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DECLARATION

We hereby declare that this thesis entitled **ASSESSMENT OF QUALITY OF LIFE USING QOL QUESTIONNAIRE IN HANDLOOM-WEAVING PEOPLE'S AT NAMMAKAL DISTRICT** "is a genuine research work carried out by us under the guidance of **Dr. K. C. ARUL PRAKASAM, M Pharm., Ph.D.,** Professor and Head, Department of Pharmacy Practice, JKKMMRF'S ANNAI JKK SAMPOORANI AMMAL COLLEGE OF PHARMACY, Komarapalayam , for the partial fulfillment of the requirement for the degree of bachelor of Pharmacy.

We further declare that this work has not been submitted earlier in part or full for the award of any degree or diploma to this or any other University. The information furnished in this thesis is genuine to the best of our knowledge and belief.

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CONCLUSION

- The physical and mental well-being is a parameter to measure the quality of life of the workers.
- It was found that the physical well-being and mental well-being of the workers are affected to a great extent. Thus the study was done to assess the quality of life of the workers and how to improve it.
- The findings of the study may prove beneficial to various people concerned with this field. The field of the Family and Community Resource Management is concerned with ergonomics and interior designing as the subjects.
- The finding of the study will help the students as well as the teachers to understand the importance of maintaining a good quality of life and apply the principles in their interior designing projects.
- The finding of the study which is undertaken will be helpful and beneficial to all the individuals working in the units who may or may not be aware of the adverse effect of the poor working environment on their health, physically and mentally.
- This finding will prove to be a boon to the workers who wish to improve their quality of life.




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OPTIMIZATION AND VALIDATION OF UV-SPECTROSCOPY SIMULTANEOUS
DETERMINATION OF SORBIC ACID AND GELATIN PRESENT IN MARKETED
MILK PRODUCT

A Dissertation submitted to
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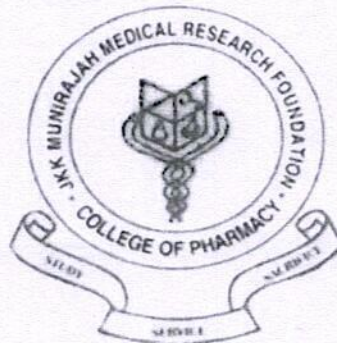
DHINESH KARTHIK P 561858013

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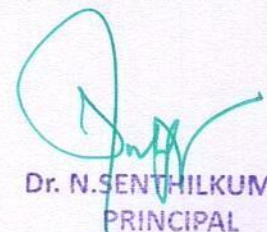
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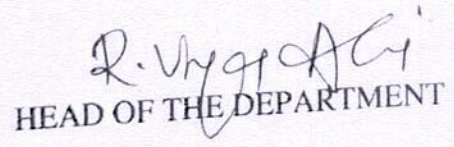
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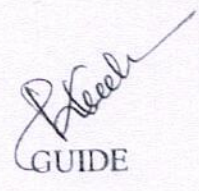
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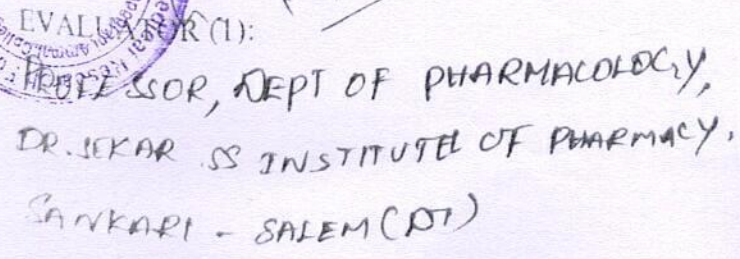

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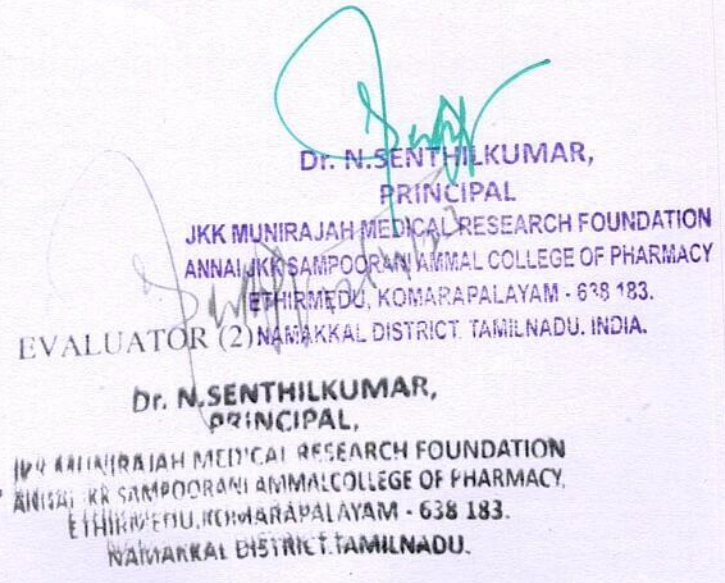

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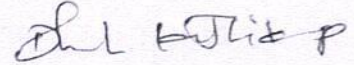
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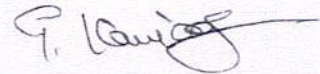
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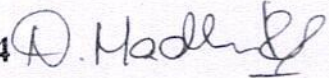
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CHAPTER-7

SUMMARY AND CONCLUSION

Simple, rapid, economic, precise and accurate UV-Spectrophotometric method were developed as per ICH guidelines for the estimation of Sorbic acid and Gelatin in bulk dosage form.

From the solubility profile, Distilled Water was chosen as a common solvent for the estimation of the Sorbic acid and Gelatin. The sample solution of 10ug/ml of Sorbic acid and Gelatin in distilled water prepared individually and the solutions were scanned in UV region in the wavelength range from 200- 400nm by using distilled water as a solvent. The overlay spectra of sorbic acid and gelatin were recorded. From the spectra, sorbic acid shows maximum absorption at 255nm and gelatin shows maximum absorption at 225nm. By the overlay spectrum of Sorbic acid and Gelatin in the UV spectrophotometer 234nm is selected as anisosbestic point.

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A person drinks 2-3 cups of milk daily which contains about 600-750ml of milk. The food additives that are added in the milk are gelatin[E441] as a thickening agent and sorbic acid[E200] as a preservative. The amount of gelatin and sorbic acid present in the 1kg of milk or 0.970 liters of milk contains 10g and 3000ppm max or 25 mg kg⁻¹ as per the

Food Safety and Standards Authority of India(Reference no 24). The gelatin and sorbic acid present in per ml contain 0.208 μ g/ml and 0.321 μ g/ml in per liter

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approximately present in gelatin is 18.36µg/ml and sorbic acid 32.1µg/ml. The intake of excess amount of gelatin and sorbic acid causes various side effects to the body they are Diarrhea, headaches, sore throat, swollen gums, mouth sores, cough.



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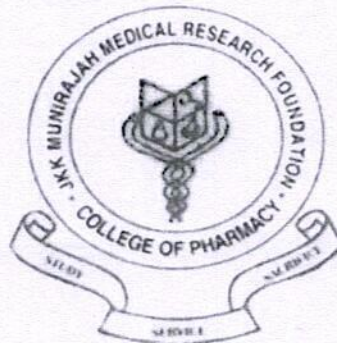
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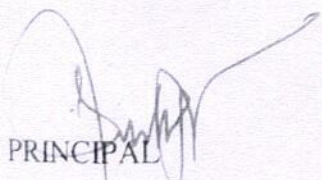
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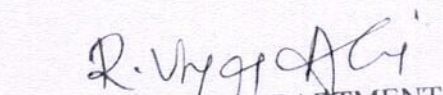
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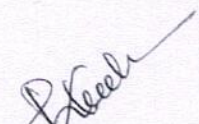
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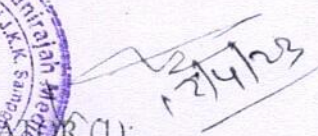

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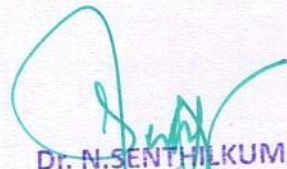

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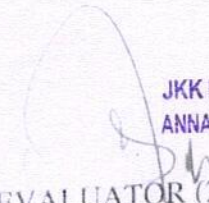
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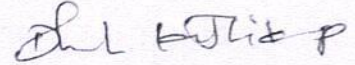

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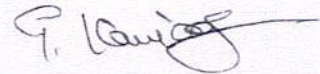
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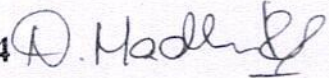
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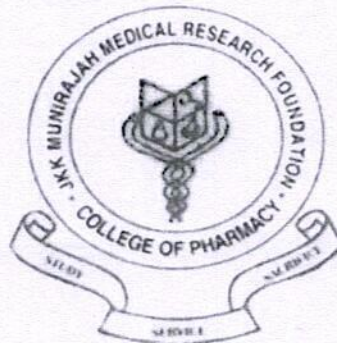
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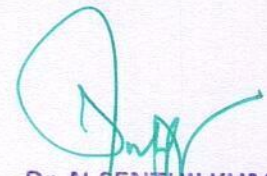
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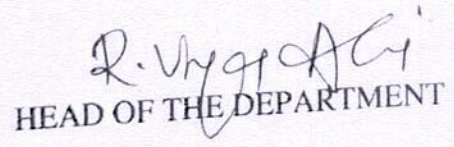
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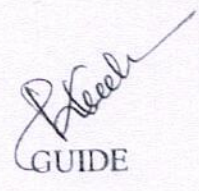
- DHINESH KARTHIK P 561858013**
- KAVIARASU G 561858030**
- MADHAN KUMAR N 561858034**
- SRIDHAR S 561858072**

under the guidance and supervision of Dr. P. KALAISELVI, M. Pharm., Ph.D., Associate Professor, in the Department of Pharmaceutical Analysis.

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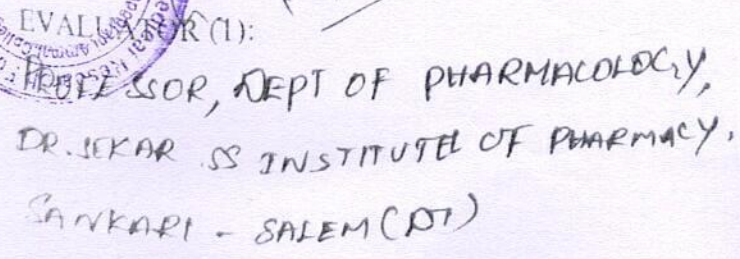

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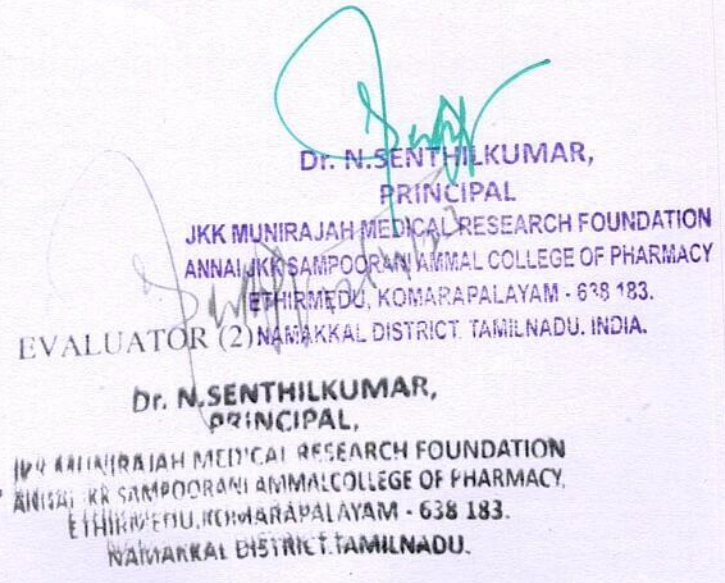

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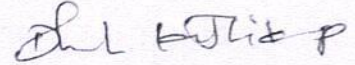

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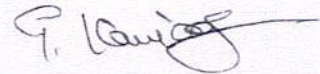
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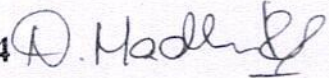
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CHAPTER-7

SUMMARY AND CONCLUSION

Simple, rapid, economic, precise and accurate UV-Spectrophotometric method were developed as per ICH guidelines for the estimation of Sorbic acid and Gelatin in bulk dosage form.

From the solubility profile, Distilled Water was chosen as a common solvent for the estimation of the Sorbic acid and Gelatin. The sample solution of 10ug/ml of Sorbic acid and Gelatin in distilled water prepared individually and the solutions were scanned in UV region in the wavelength range from 200- 400nm by using distilled water as a solvent. The overlay spectra of sorbic acid and gelatin were recorded. From the spectra, sorbic acid shows maximum absorption at 255nm and gelatin shows maximum absorption at 225nm. By the overlay spectrum of Sorbic acid and Gelatin in the UV spectrophotometer 234nm is selected as anisosbestic point.

In simultaneous equation method, we chosen 10 μ g/ml of standard stock solution of sorbic acid and Gelatin were used to determine the absorption at 255nm and 225nm.

The proposed UV spectrophotometric methods showed good agreement at estimated concentration of both the active ingredients with declared in bulk drug. Both the estimated methods were showed good recoveries close to 100% and percentage coefficient variation was less than 2.0% for both Sorbic acid and Gelatin. The developed methods were simple, accurate, precise, reproducible, economical, which would be used to estimate Sorbic acid and Gelatin in their combined in dosage form in routine analysis.

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OPTIMIZATION AND VALIDATION OF UV-SPECTROSCOPY SIMULTANEOUS
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MILK PRODUCT

A Dissertation submitted to
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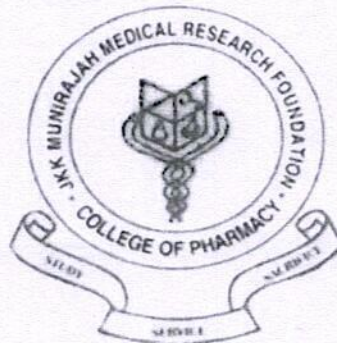
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DEPARTMENT OF PHARMACEUTICAL ANALYSIS

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MARCH 2023




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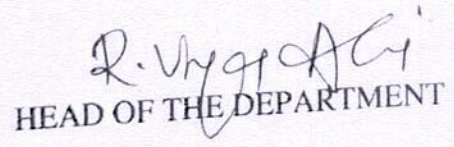
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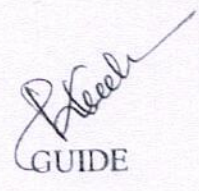
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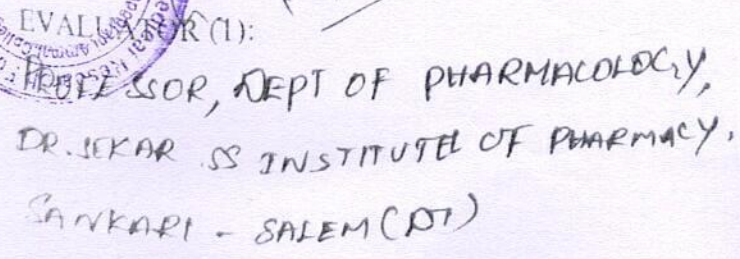

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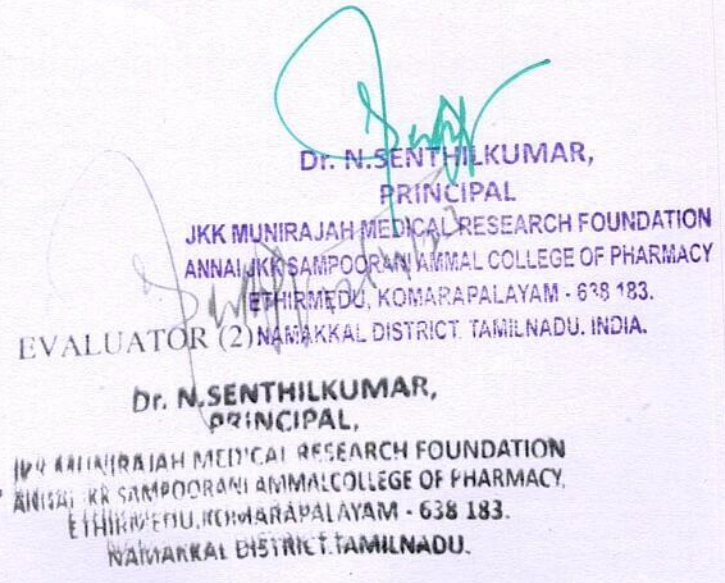

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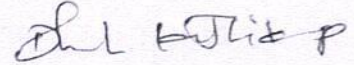
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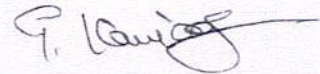
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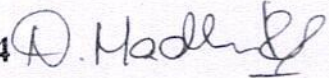
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ANTHELMINTIC ACTIVITY OF *NYCTANTHES ARBOR-TRISTIS*(Linn.,)

Dissertation submitted to

THE TAMILNADU Dr. MGR MEDICAL UNIVERSITY,
CHENNAI-32

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

Submitted by,

B. DINESH 561858014

S. JEEVA 561858023

M. SANJAYKUMAR 561858059

P. SOMU 561858067

Under the supervision & guidance of
Dr. K. SUMATHI, M. Pharm, Ph. D.,

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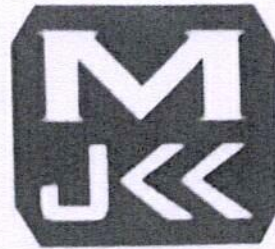



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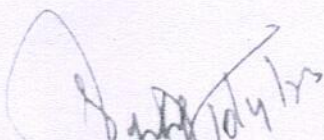


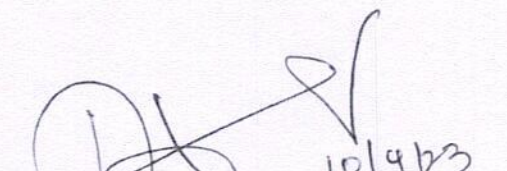
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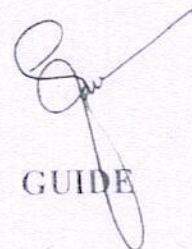


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Date: 12.04.2023


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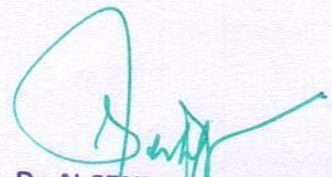
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7.CONCLUSION:

It is concluded that Chloroform extracts of *Nyctanthes arbor-tristis* exhibited the dose dependent anthelmintic activity. Among these Chloroform (60mg/ml) extract causes paralysis in 3 minutes death in 10 mins extracts were more effective in causing death of the worm as was promoting paralysis compared to standard anthelmintic drug. Further studies using invivo models are required to carryout and establish the effectiveness and pharmacological rationale for the use of *Nyctanthes arbor-tristis* as anthelmintic drug. The drug may be further explored for phytochemical profile to identify the active constituent responsible for anthelmintic activity.

There is need for further reseach, clinical trials and product developement. however, there is need to study the acute toxicity, sub-acute toxicity ,chronic toxicity pharmacological safety associated with the use of *Nyctanthes arbor-tristis* as a medicine.




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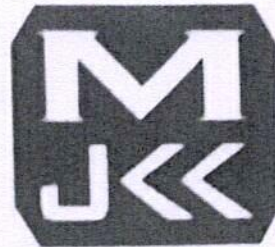



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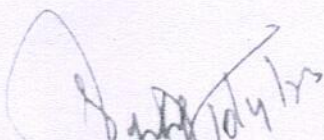


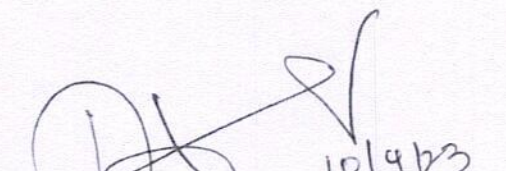
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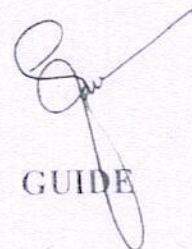


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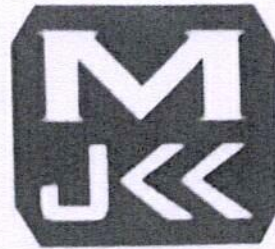



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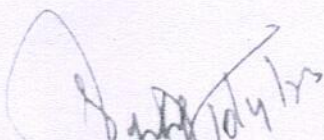


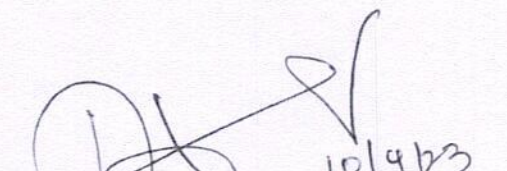
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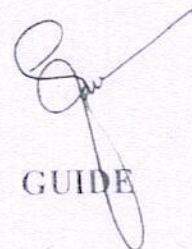


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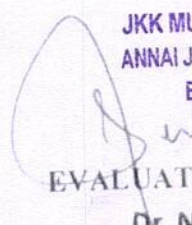

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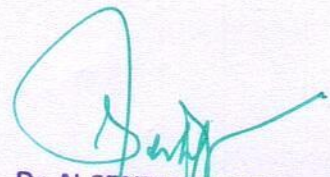
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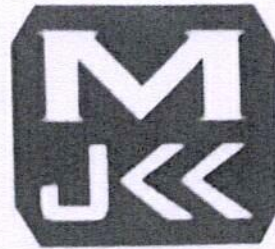



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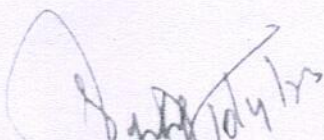


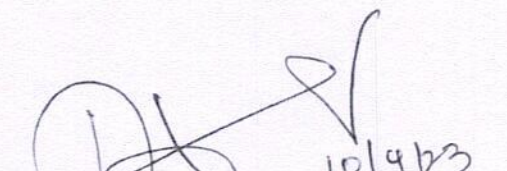
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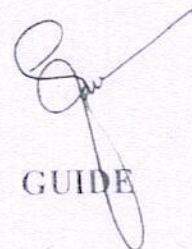


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CONTAINING CEFUROXIME AXETIL**

A Dissertation submitted to

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In partial fulfillment for the award of the degree of

BACHELOR OF PHARMACY

Submitted by

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KARAN.M (Reg.No:561858028)

PRETHY.S (Reg.No:561858050)

ROHINI.V (Reg.No:561858056)

Under the Guidance of

Dr. S.CHANDRA, M. Pharm., Ph. D

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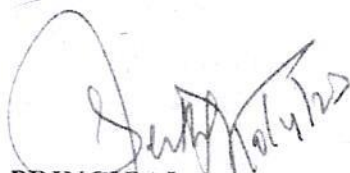
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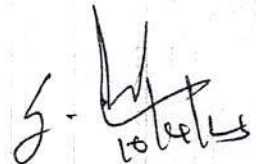
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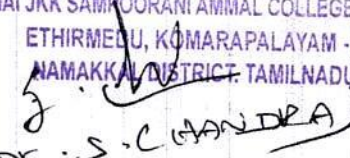

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9. SUMMARY AND CONCLUSION

The bitter taste of drugs remains a big challenge to the pharma sector especially when it deals with oral pharmaceutical to paediatric population. Cefuroxime axetil is a betalactum antibiotic used for infections in the urinary tract, sinusitis, otitis media, angioedema, leukopenia, urticaria, seizure, erythema multiforme, renal dysfunction and so on. The highly bitter taste of drug reduces its patient compliance. In the present work the taste masking of the drug employed various techniques like masking with sweetener and flavour, drug particle coating with stearic acid and finally complexation with betacyclodextrin.

The inclusion complex formation with betacyclodextrin proved to be highly efficacious, cost effective and simple method. The drug is entrapped within the hydrophobic core of cyclodextrin thus reducing the solubility of drug in saliva. The complex is thought to separate inside the gastric environment thus releasing the drug. The drug is better absorbed from the upper part of intestine.

The complexation method is the most simplest method. All the formulation parameters were crucially scrutinised and optimised the final formula. This final formula **F4** is easily scale up to increase the batch size and less time consumed and fast output in production. The data of drug, complexing agent and optimised formulation confirms complexation. The suspension was charged for stability studies. The report of the same has been furnished. The suspensions were evaluated as per USP standards. The in vitro studies of the suspension concludes here. Thus an attempt to mask the bitter taste of second generation cephalosporin antibiotic has been made.



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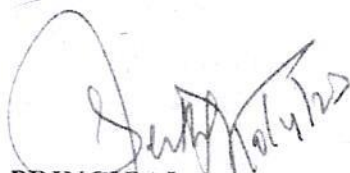
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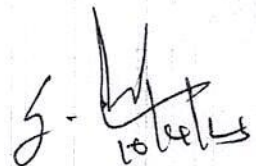
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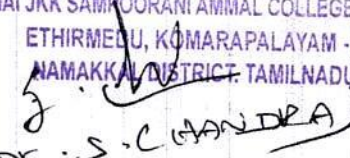

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**FORMULATION AND EVALUATION OF ORAL SUSPENSION
CONTAINING CEFUROXIME AXETIL**

A Dissertation submitted to

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

- 32.

In partial fulfillment for the award of the degree of

BACHELOR OF PHARMACY

Submitted by

GAUTHAM.G (Reg.No:561858017)

KARAN.M (Reg.No:561858028)

PRETHY.S (Reg.No:561858050)

ROHINI.V (Reg.No:561858056)

Under the Guidance of

Dr. S.CHANDRA, M. Pharm., Ph. D

Professor and Head of Department,


Department of Pharmaceutics



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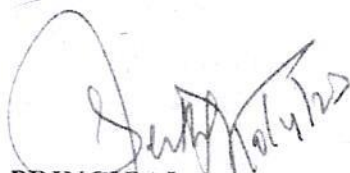
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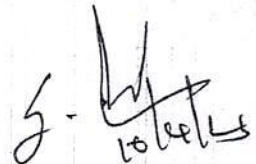
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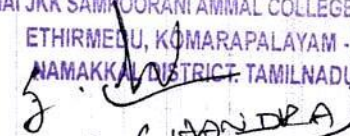

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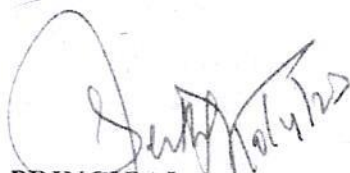
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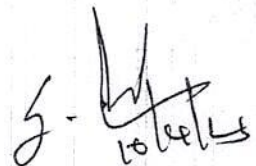
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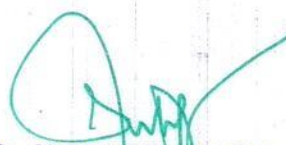

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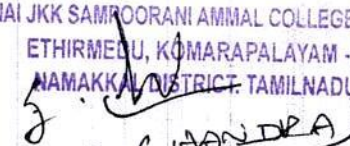

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Mr. ROHIT SUNDHAR.S 561858057

Mr. MANIKANDAN.M 561958108

Under the supervision & guidance of

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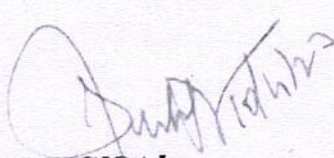
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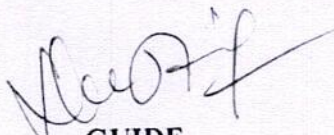
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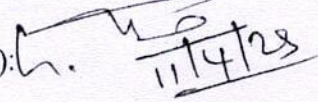

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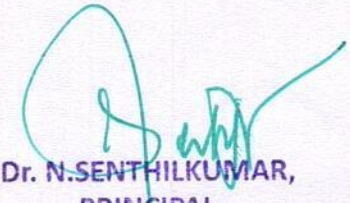
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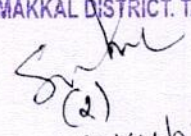
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CONCLUSION

The goal of this research was to compare several petroleum ethers and chloroforms. In order to gather knowledge about its phytochemical and *in-vitro* pharmacological research, ethanol extracts of the *Jatropha gossypifolia* flower were studied. The ethanolic extract of the *Jatropha gossypifolia* flower has been the subject of phytochemical research that have revealed Initial phytochemical analysis revealed the presence of terpenoids, steroids, glycosides, saponins, flavonoids, tannin, and polyphenols. When used against several diseases, the extract of the *Jatropha gossypifolia* flower was found to have antimicrobial properties.

Milk from cows with mastitis was used to isolate *Staphylococcus aureus*, while calf diarrheal faeces were used to isolate *E. coli*. As compared to the standard medicine ciprofloxacin, the results of the current screening of the extract of the *Jatropha gossypifolia* flower revealed anti-microbial action by inhibiting the development of microorganisms (such as *E. coli*, *Staphylococcus aureus*, and *Aspergillus*). In conclusion our reports clearly demonstrate that ethanolic extract of *Jatropha gossypifolia* shows an anti-microbial activity were compare to standard drug. this research work can be going preformed detail in future work.




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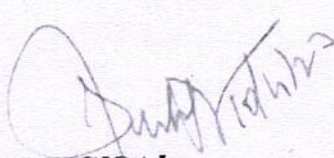
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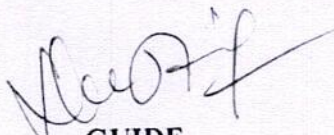
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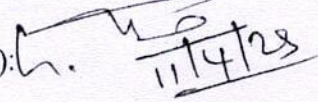

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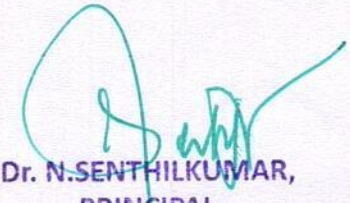
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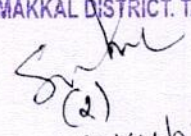
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NAMAKKAL DISTRICT, TAMILNADU, INDIA.

EVALUATION OF *INVITRO* ANTI-MICROBIAL ACTIVITY IN
JATROPHA GOSSYPIIFOLIA

A Dissertation Submitted to

THE TAMILNADU Dr. M. G. R. MEDICAL UNIVERSITY,
CHENNAI-32

In partial fulfillment of the requirement for the award of the degree of

BACHELOR OF PHARMACY

Submitted by:

Ms. GOKULPRIYA.M 561858018

Mr. ROHIT SUNDHAR.S 561858057

Mr. MANIKANDAN.M 561958108

Under the supervision & guidance of

Mr. DEEPAN.N, M.Pharm.,

Assistant professor,

Department of Pharmacology.

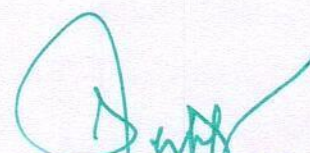


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MARCH-2023




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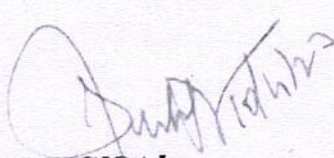
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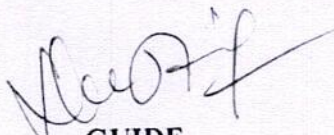
• CERTIFICATE

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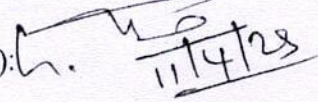

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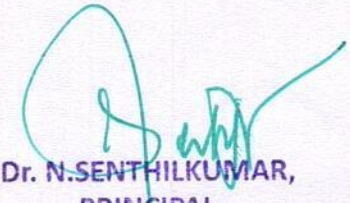
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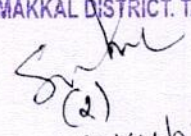
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 Annai JKK Sampoorani
 Ammal college of
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DECLARATION

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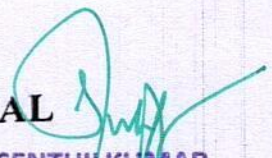
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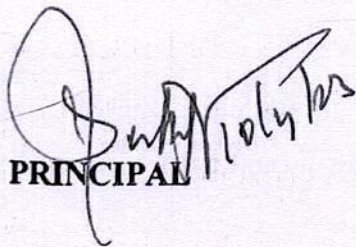
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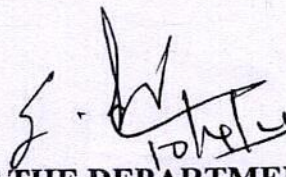


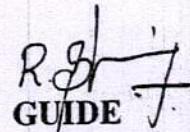
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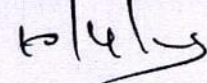
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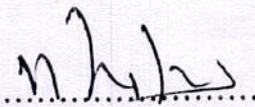

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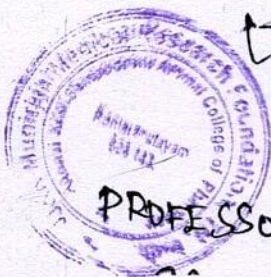

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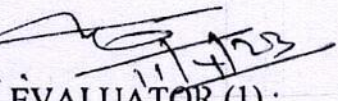

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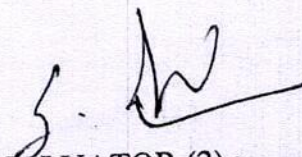
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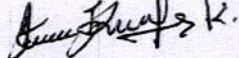

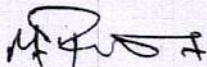
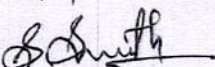



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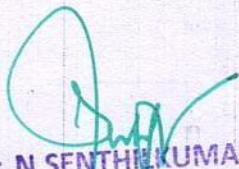
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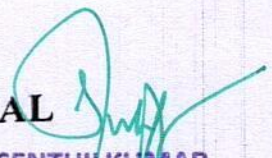
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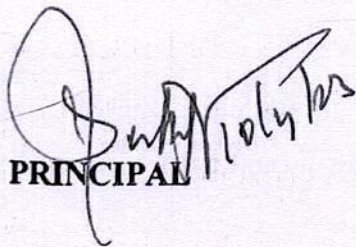
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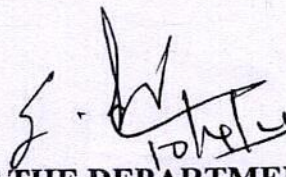


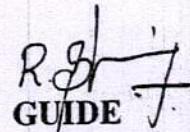
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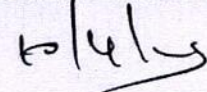
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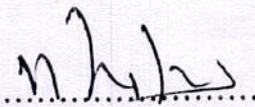

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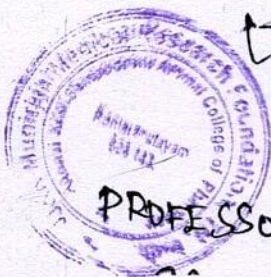

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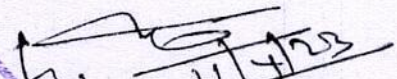

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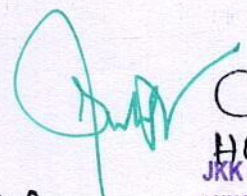
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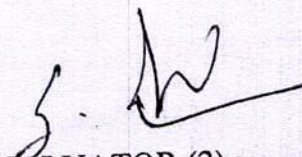
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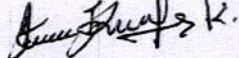

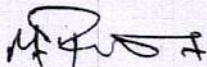
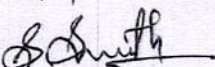

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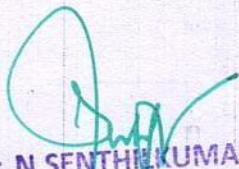
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THE TAMIL NADU Dr. M.G.R. MEDICAL UNIVERSITY

CHENNAI – 32.

In partial fulfillment for the award of the degree of

BACHELOR OF PHARMACY

Submitted by

INBAKUMAR.K (Reg.No:561858020)

KAVIN.P (Reg.No:561858031)

PRAVEEN.M (Reg.No:561858048)

SUGANTH.S (Reg.No:561858079)

Under the Guidance of

Mrs.R.Shakthi, M.Pharm.,

Assistant Professor

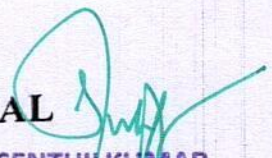
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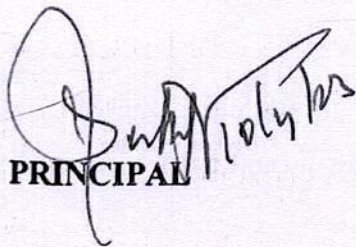
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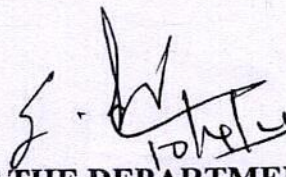


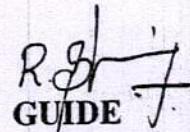
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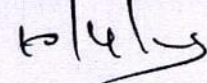
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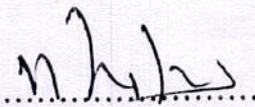

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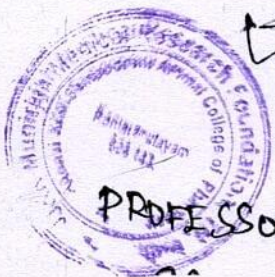

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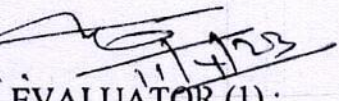

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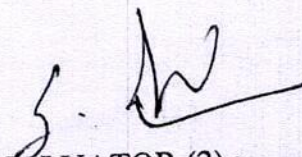
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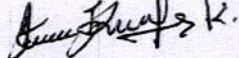

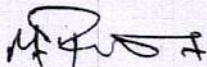
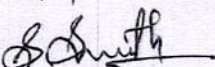



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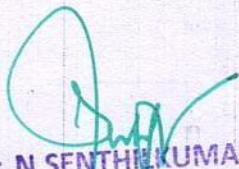
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7. SUMMARY AND CONCLUSION

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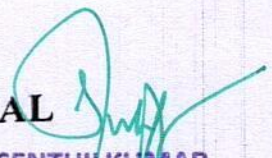
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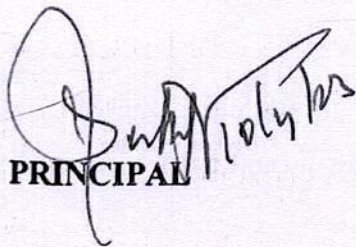
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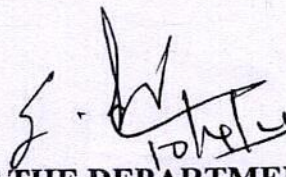


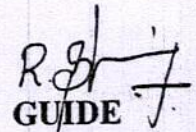
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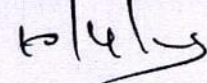
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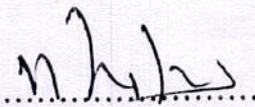

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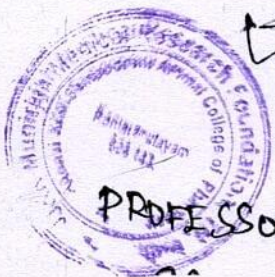

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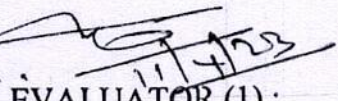

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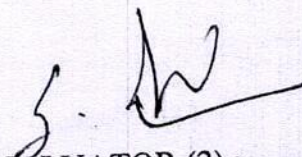
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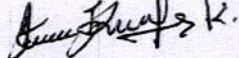

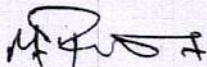
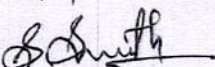



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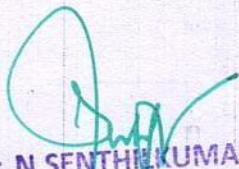
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*Formulation and Evaluation
Of Ofloxacin Microspheres By Ethyl Cellulose as a Polymer*

8. CONCLUSION

The solvent evaporation method was found suitable to produce spherical Ethyl cellulose Microspheres with smooth surface and better drug content. The formulation F1 was found to be the best formulation as is shown by the In-vitro studies and the evaluation of other formulations.

From the result, it can be concluded that the ratio of 1:1 of Ofloxacin and ethyl cellulose produced the Microspheres with all desired characteristics like sieve analysis, bulk density, and sustained release of drug for an extended period of 8 hours. The Ethyl cellulose formed the semi permeable membrane over the Ofloxacin to give sustained delivery of the Ofloxacin.




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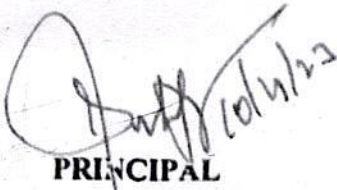
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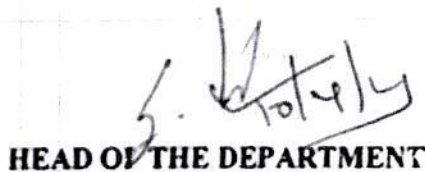
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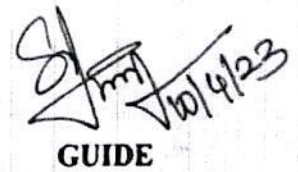
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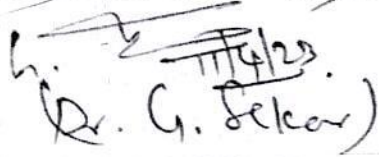

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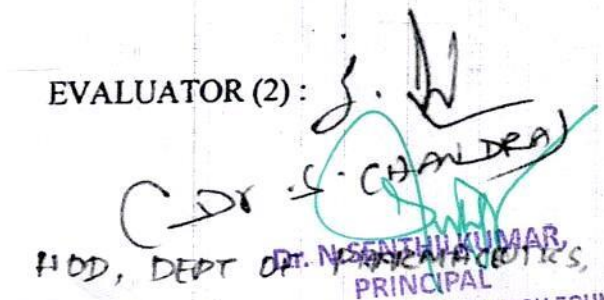
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DECLARATION

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Place: Komarapalayam.

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*Formulation and Evaluation
Of Ofloxacin Microspheres By Ethyl Cellulose as a Polymer*

8. CONCLUSION

The solvent evaporation method was found suitable to produce spherical Ethyl cellulose Microspheres with smooth surface and better drug content. The formulation F1 was found to be the best formulation as is shown by the In-vitro studies and the evaluation of other formulations.

From the result, it can be concluded that the ratio of 1:1 of Ofloxacin and ethyl cellulose produced the Microspheres with all desired characteristics like sieve analysis, bulk density, and sustained release of drug for an extended period of 8 hours. The Ethyl cellulose formed the semi permeable membrane over the Ofloxacin to give sustained delivery of the Ofloxacin.




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CERTIFICATE

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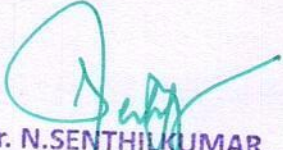
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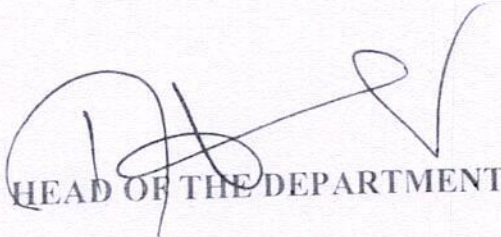
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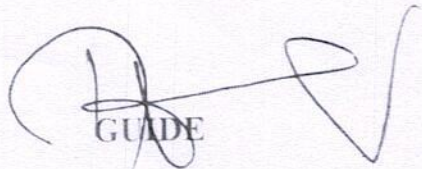


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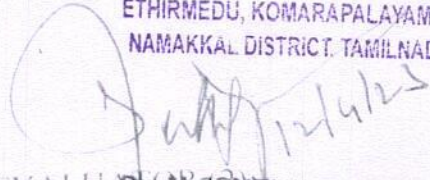
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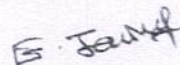
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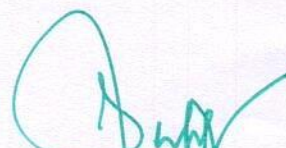
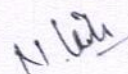
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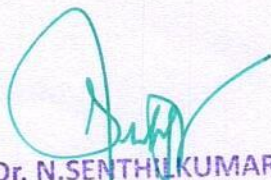
9. SUMMARY AND CONCLUSION

Ecbolium viride leaves is one of the Indian traditional drugs widely used in the southern parts of India for treatment of diabetics. In addition, this drugs was said to effective in the treatment of diabetics related complications.

The Preliminary Phytochemical investigation of different extracts were compared. It shows good co-relation between them. The *invitro* antidiabetic investigation shows good co-relation between them.

Finally it conclude *Ecbolium viride* leaves is good biomarker for diabetic patients.




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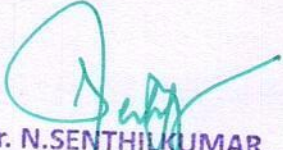
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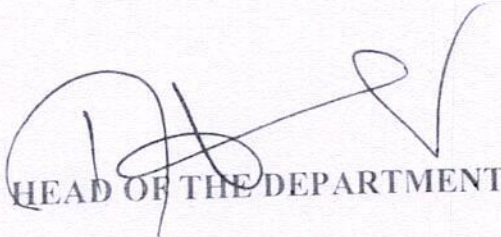
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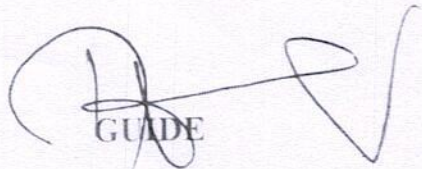


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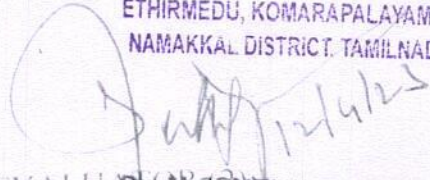
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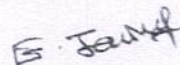
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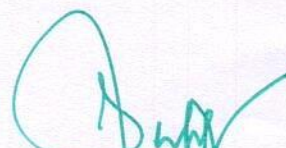
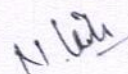
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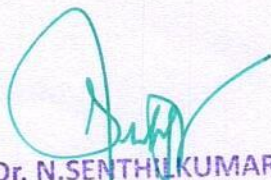
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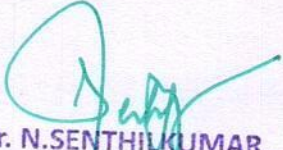
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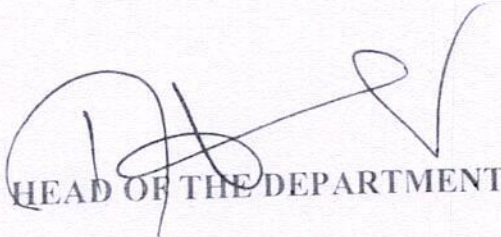
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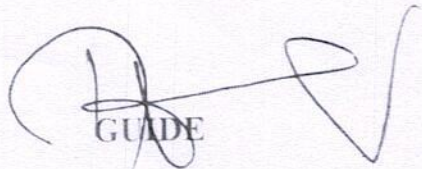


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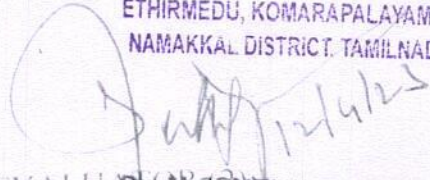
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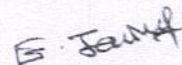
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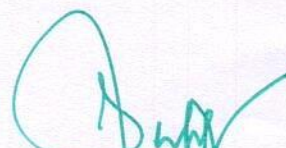
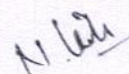
JOHN PAUL.E

(561858025)



KARTHICK.N

(561958106)



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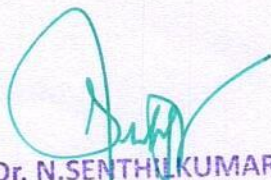
9. SUMMARY AND CONCLUSION

Ecbolium viride leaves is one of the Indian traditional drugs widely used in the southern parts of India for treatment of diabetics. In addition, this drugs was said to effective in the treatment of diabetics related complications.

The Preliminary Phytochemical investigation of different extracts were compared. It shows good co-relation between them. The *invitro* antidiabetic investigation shows good co-relation between them.

Finally it conclude *Ecbolium viride* leaves is good biomarker for diabetic patients.




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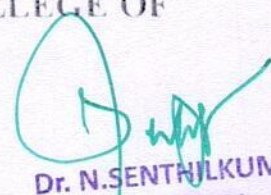


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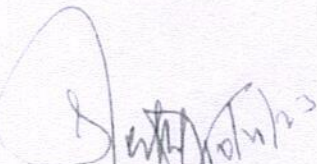



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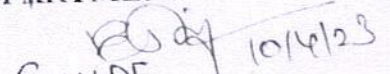


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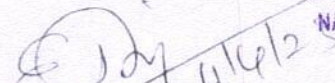


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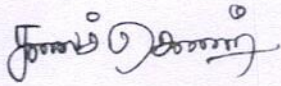
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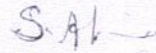
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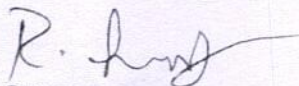
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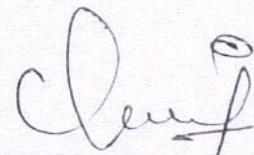
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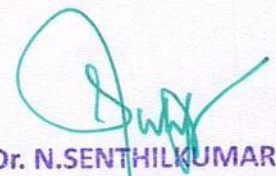


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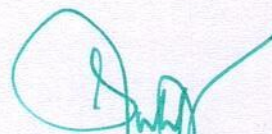
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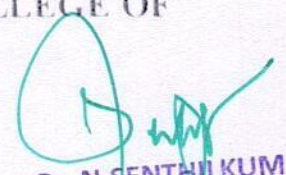


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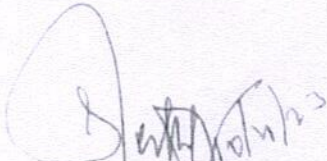



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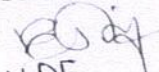


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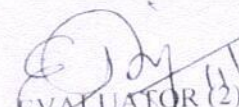
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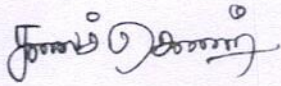
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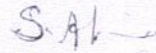
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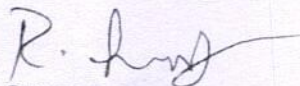
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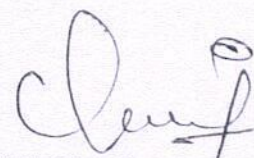
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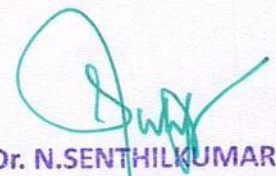


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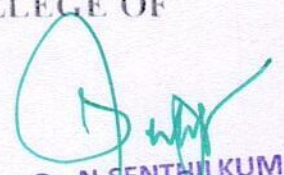


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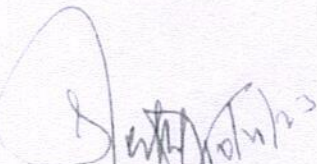



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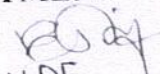


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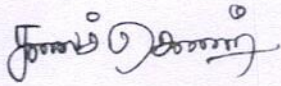
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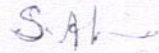
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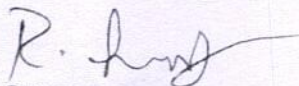
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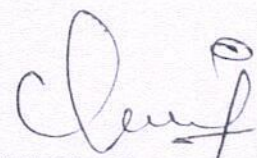
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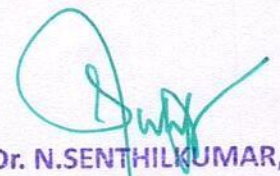


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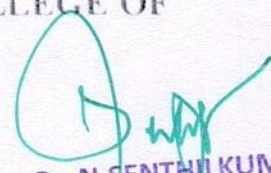


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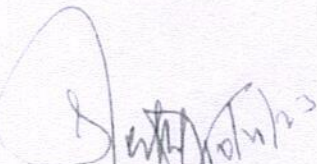



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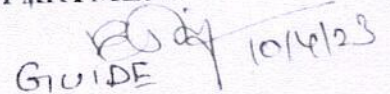


CERTIFICATE

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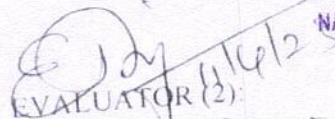


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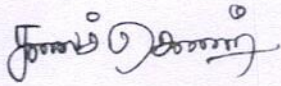
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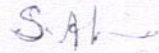
DECLARATION

The work described in this book was carried out by us in the Department of Pharmacognosy, JKKMMRF's – Annai JKK Sampoorani Ammal College of Pharmacy, Komarapalayam under the guidance of **Dr. E. Thilagam, M. Pharm., Ph.D., Professor and Head of the Department of Pharmacognosy, JKKMMRF's – Annai JKK Sampoorani Ammal College of Pharmacy, Komarapalayam.** This work is original and has not been submitted in part or full for the award of any other degree or diploma of any other university.



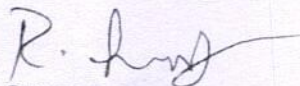
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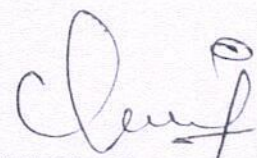
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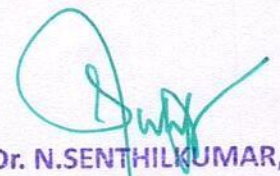


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SUMMARY AND CONCLUSION

The plant *Scrophularia peregrina* and *Achyranthes bidentata* has been studied to give a report on preliminary phytochemical and *In vitro* anti-inflammatory activity.

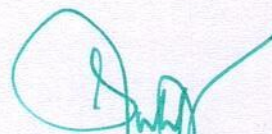
The studies made on the aerial parts of *Scrophularia peregrina* and *Achyranthes bidentata* like extractive value and fluorescence analysis of crude powder gave valuable information in determination of adulterants and improper handling of drugs.

The preliminary phytochemical investigation shown the presence of alkaloids, glycosides, tannins, flavonoids, saponins and steroids in the ethanol extracts of *Scrophularia peregrina*. It also shown the presence of alkaloids, glycosides, carbohydrates, tannins, flavonoids, steroids and saponins in the ethanol extracts of *Achyranthes bidentata*.

The *In vitro* anti-inflammatory properties at the dose of 1000 µg/ml with ethanol extracts of aerial parts of *Scrophularia peregrina* and *Achyranthes bidentata* shown potent anti-inflammatory activity may be due to the presence of phenolic compounds which are helpful in inhibiting the inflammation.

In conclusion, our results clearly demonstrated that the ethanol extracts of aerial part of the *Scrophularia peregrina* and *Achyranthes bidentata* displayed a potent anti-inflammatory activity.

These *In vitro* results appear as interfering and promising and may be effective as a potential source of novel anti-inflammatory drugs.



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FORMULATION AND EVALUATION OF EXTENDED RELEASE FLOATING
MATRIX TABLET OF METOPROLOL

A Dissertation submitted to

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CHENNAI – 32.

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

Submitted by

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MOHANDAS.N	(Reg.No:561858036)
SRIMATHI.T	(Reg.No:561858073)
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Under the Guidance of

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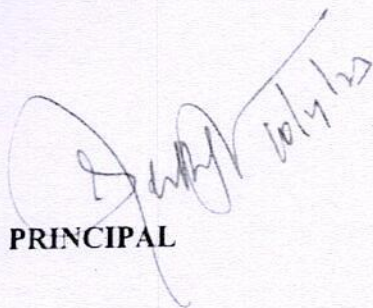
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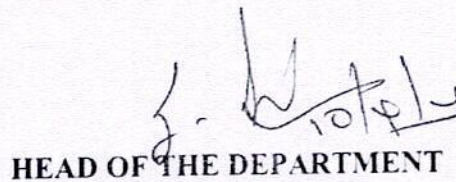


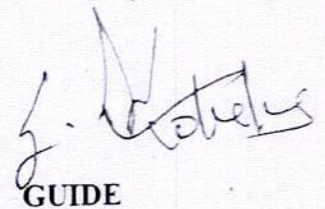
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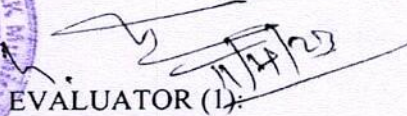

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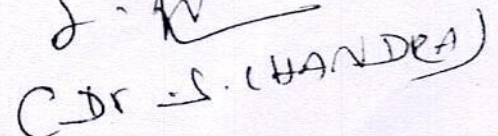
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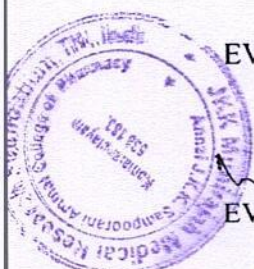
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DECLARATION

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7.SUMMARY

In present work, attempts have been made to formulate floating matrix extended release tablets of Metoprolol succinate, by using different ratio of hydrophilic polymer HPMC K15M and sodium carboxy methyl cellulose and sodium bicarbonate as a gas generating agent. Metoprolol succinate as a agent to treat hypertension and angina pectoris, which is used as a β 1 selective antagonist Matrix tablets were prepared by wet granulation technique. Metoprolol succinate meets all the ideal characteristics to formulate in the form of extended release drug delivery system.

Under preformulation study, the organoleptic properties were complied with the IP specification. Physical properties such as bulk density and tapped density were more in case of granules ready for compression than that on Metoprolol succinate raw powder. Particle size analysis and melting point determination were given the information about particle size distribution and purity of the drug powder respectively. Loss on drying was within the IP limit and the result of angle of repose of drug powder showed the poor flow properties.

Solution properties i.e pH of the solution and solubility were evaluated, results were complied with the pharmacopoeial specification.

Assay of pured Metoprolol succinate was carried out by non aqueous titration method and was found to be 100.66 w/v.

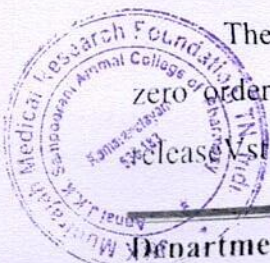
All the formulations were evaluated on the basis of pharmacopoeial specifications. Shape of the tablets was round standard concave hardness, thickness, weight variation, floating time study, dissolution test were carried out.

Assay was carried out for batch no.F-05 and was formed to be 100.23% w/v.

Infra Red spectrum of Metoprolol succinate matches with the standard spectrum as well in tablet there are no any additional peak formation.

Formulation No. F05 were compared with the marketed products METO. ER(Orchid) and dissolution result was coincide with marketed formulation.

The release rate of Metoprolol succinate matrix extended release tablets followed near zero order kinetics, which was obtained by plotting, a graph of cumulative percentage drug release vs time



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CONCLUSION

The extended-release floating matrix tablets of metoprolol showed promising results in achieving sustained drug delivery and improved patient compliance. Further research may be needed to determine their clinical efficacy.

The in vitro study, shows formulation No.05 were well suited to be extended release formulation due to floating up to 8 hrs.




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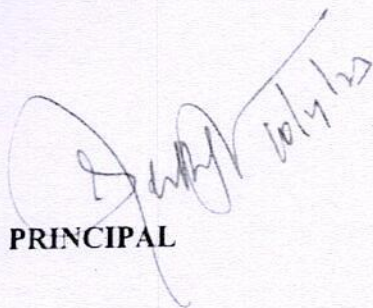
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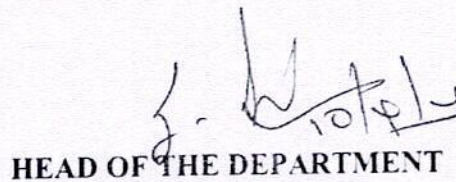


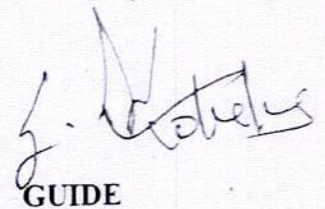
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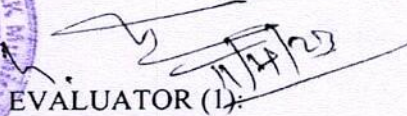

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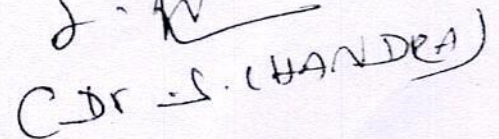
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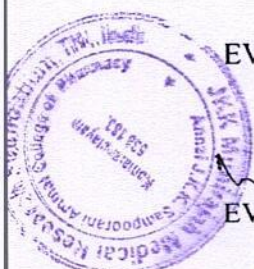
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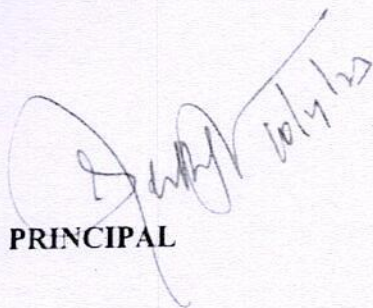
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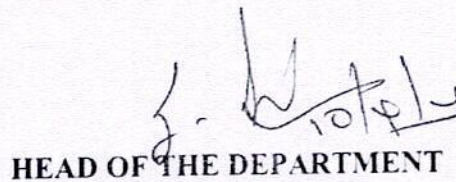


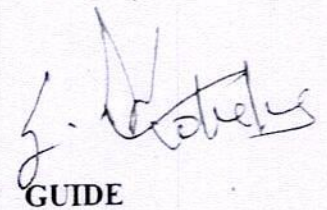
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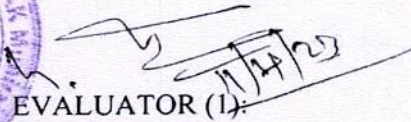

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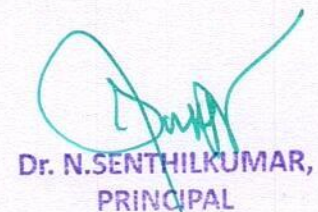
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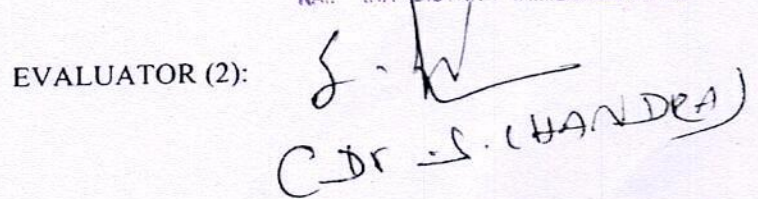

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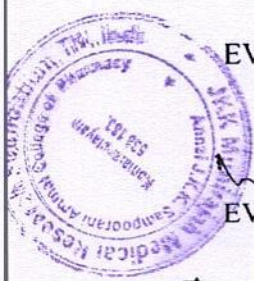
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7.SUMMARY

In present work, attempts have been made to formulate floating matrix extended release tablets of Metoprolol succinate, by using different ratio of hydrophilic polymer HPMC K15M and sodium carboxy methyl cellulose and sodium bicarbonate as a gas generating agent. Metoprolol succinate as a agent to treat hypertension and angina pectoris, which is used as a β 1 selective antagonist Matrix tablets were prepared by wet granulation technique. Metoprolol succinate meets all the ideal characteristics to formulate in the form of extended release drug delivery system.

Under preformulation study, the organoleptic properties were complied with the IP specification. Physical properties such as bulk density and tapped density were more in case of granules ready for compression than that on Metoprolol succinate raw powder. Particle size analysis and melting point determination were given the information about particle size distribution and purity of the drug powder respectively. Loss on drying was within the IP limit and the result of angle of repose of drug powder showed the poor flow properties.

Solution properties i.e pH of the solution and solubility were evaluated, results were complied with the pharmacopoeial specification.

Assay of pured Metoprolol succinate was carried out by non aqueous titration method and was found to be 100.66 w/v.

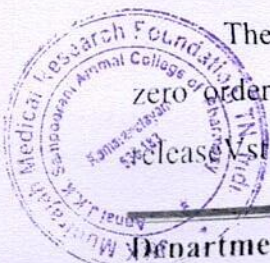
All the formulations were evaluated on the basis of pharmacopoeial specifications. Shape of the tablets was round standard concave hardness, thickness, weight variation, floating time study, dissolution test were carried out.

Assay was carried out for batch no.F-05 and was formed to be 100.23% w/v.

Infra Red spectrum of Metoprolol succinate matches with the standard spectrum as well in tablet there are no any additional peak formation.

Formulation No. F05 were compared with the marketed products METO. ER(Orchid) and dissolution result was coincide with marketed formulation.

The release rate of Metoprolol succinate matrix extended release tablets followed near zero order kinetics, which was obtained by plotting, a graph of cumulative percentage drug release vs time



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The extended-release floating matrix tablets of metoprolol showed promising results in achieving sustained drug delivery and improved patient compliance. Further research may be needed to determine their clinical efficacy.

The in vitro study, shows formulation No.05 were well suited to be extended release formulation due to floating up to 8 hrs.




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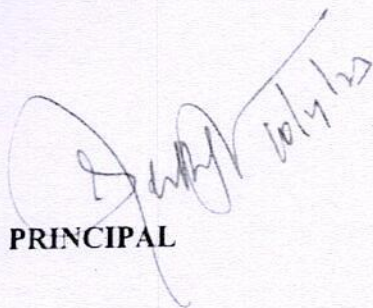
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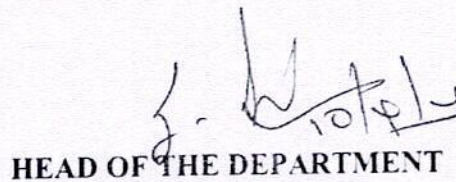


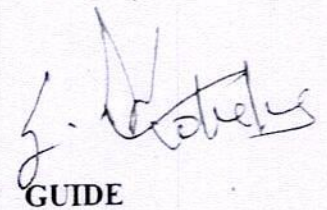
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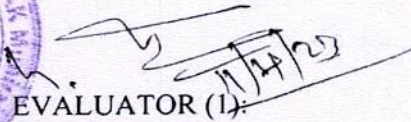

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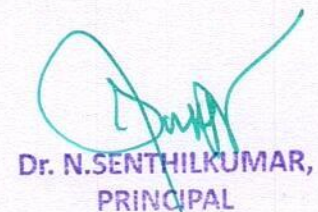
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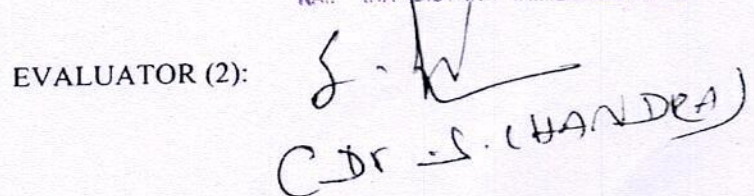

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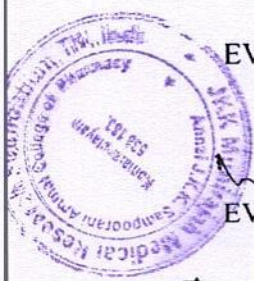
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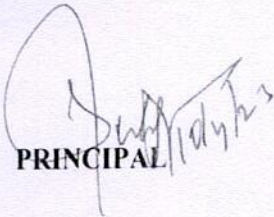
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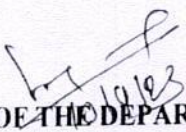


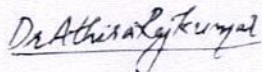
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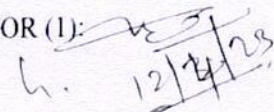

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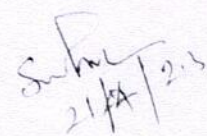
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The study shows that there is a need for continued mandatory pharmacy practice education for community pharmacist.

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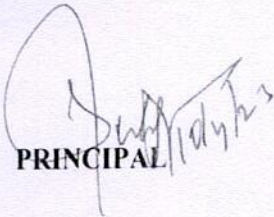
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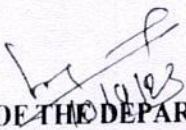


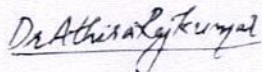
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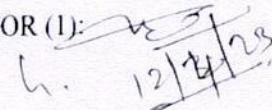

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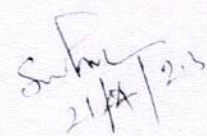
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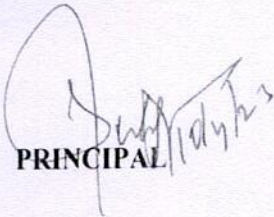
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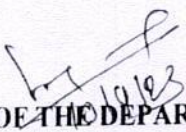


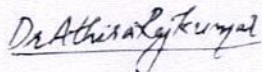
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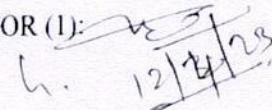

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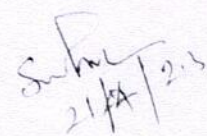
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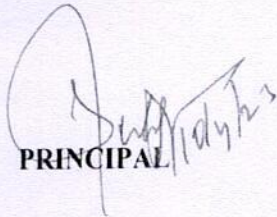
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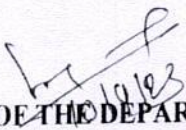


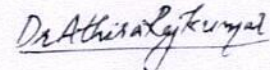
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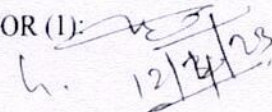

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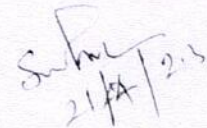
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ANTHELMINTIC ACTIVITY OF PERCULARIA DAEMIA
FRUITS

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D.SRINIVASAN	561858074
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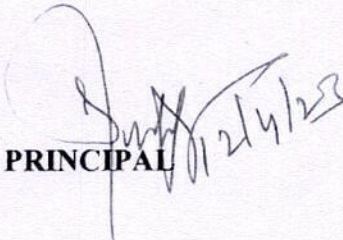
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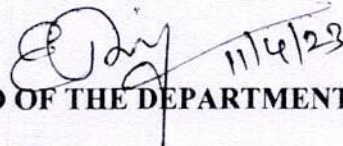


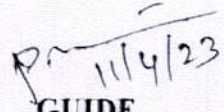
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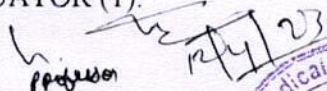

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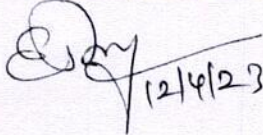
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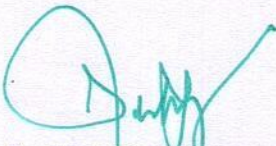

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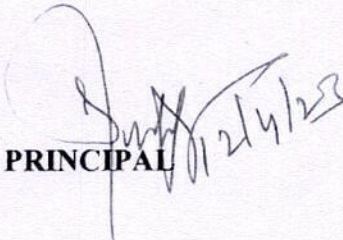
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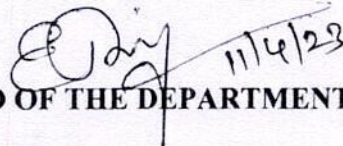


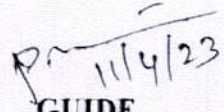
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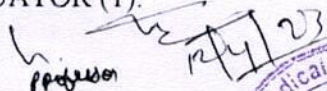

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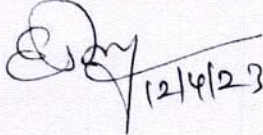
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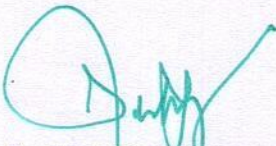

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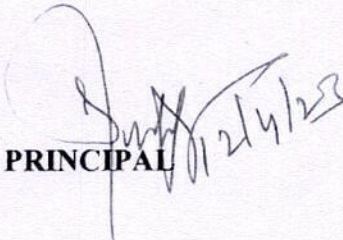
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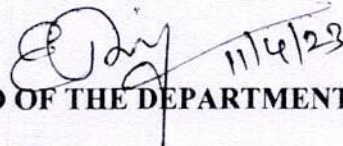


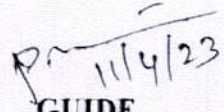
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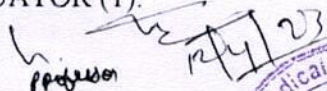

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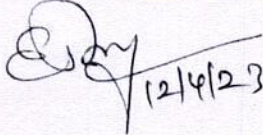
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DECLARATION

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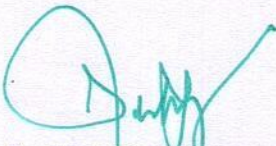

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10. CONCLUSION

From the above results, it is concluded that *Pergularia daemia* Fruits. extracts have significantly determined anthelmintic activity. The ethanolic extracts of *Pergularia daemia* Fruits. shown most significant anthelmintic activity as compare to the aqueous extracts. The plant may be further explored for its phytochemical profile to recognize the active constituent responsible for anthelmintic activity.




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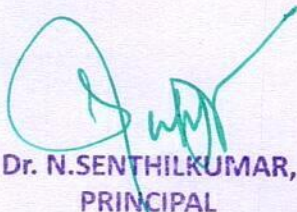
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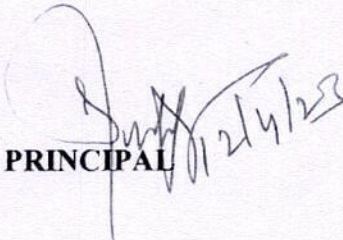
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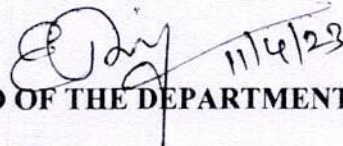


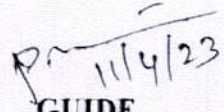
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This is to certify that the dissertation work entitled "ANTHELMINTIC ACTIVITY OF PERGULARIA DAEMIA FRUITS " is the bonafide work carried out by, **LAVITHRAN K (Reg.No:561858033), SATHIYAMOORTHY K (Reg.No:561858061), SRINIVASAN D (Reg.No:561858074), VIGNESH I (Reg.No:561858084)**, under the guidance and supervision of **Dr.SATHEESKUMAR M.Pharm., Ph.D.**, associate Professor in the Department of Pharmacognosy

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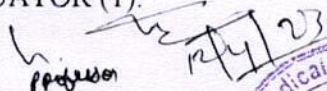

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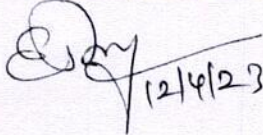
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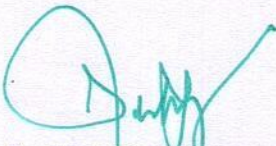

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IN-VITRO ANTHELMINTIC ACTIVITY OF PHYSALIS LAGASCAE

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Mr. KANAGARAJ .M 561958105

Mr. KARTHICK .S 561958107

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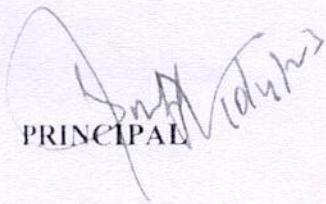


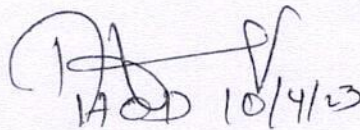
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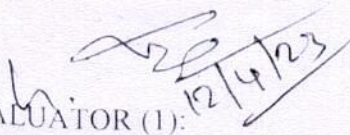

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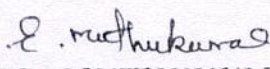
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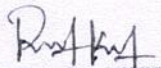
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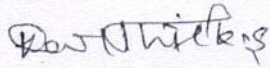
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9. CONCLUSION

The leaves of the *Physalis lagascae* it is a solanaceae family were investigated to learn more about its phytochemical characteristics. Protein, amino acids, saponins, phytosterol, alkaloids, flavanones, phenolic compounds and tannins are among the phytochemicals under investigation. *Physalis lagascae* petroleum ether extract shown significant anthelmintic activity action. According to the data, compounds found in extracts may be significantly antilized as anthelmintics. If further studies and clinical trials are conducted in this area, it will modern medicine. Thes analysis in the current study led to the very evident conclusion that *Physalis lagascae* (Solanaceae) exhibited potent anthelmintic action.




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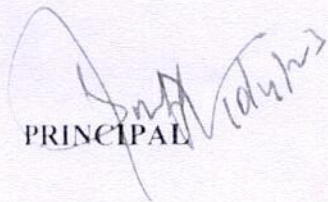


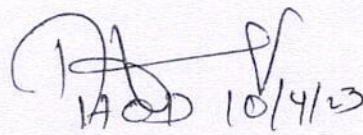
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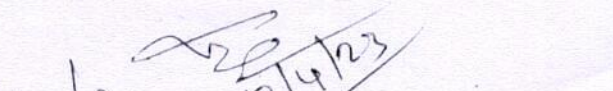

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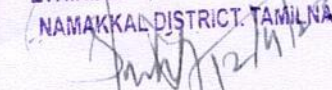
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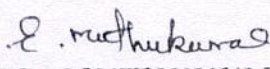

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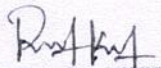
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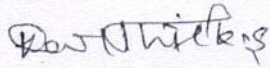
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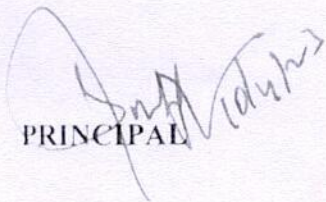


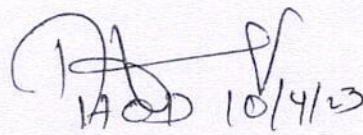
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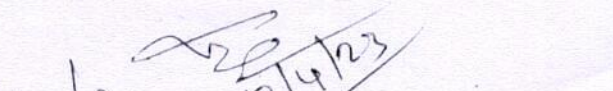

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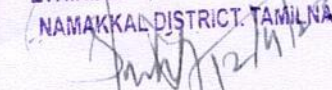
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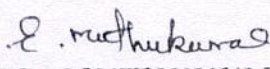

EVALUATOR (2):
Dr. N.SENTHILKUMAR,
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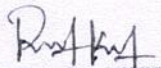
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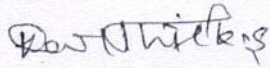
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Mr. KARTHICK .S 561958107

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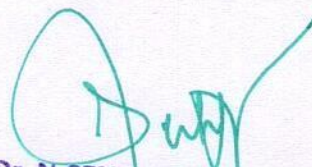
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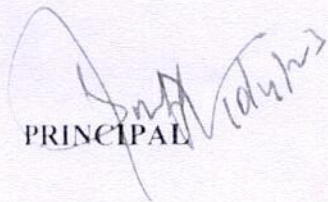


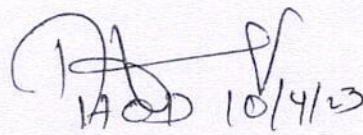
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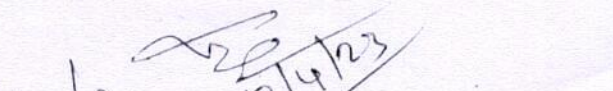

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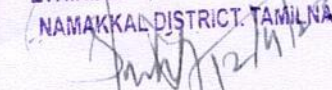
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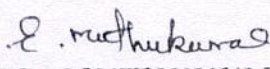

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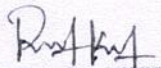
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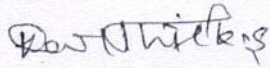
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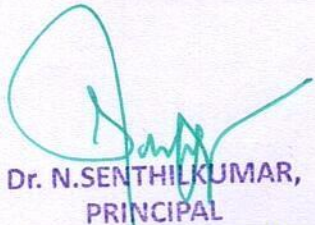
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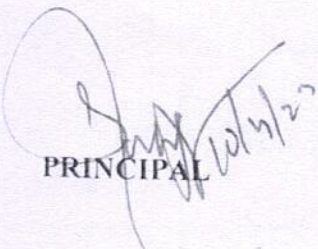
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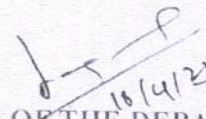


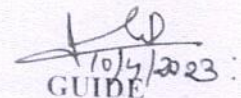
CERTIFICATE

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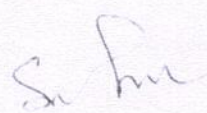
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EVALUATOR (1):

EVALUATOR (2):


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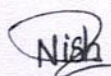


DECLARATION

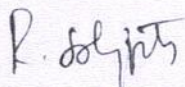
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 R. Selvaganapathy

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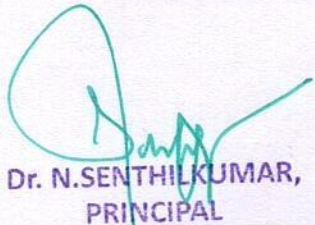
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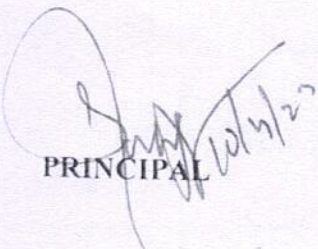
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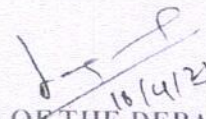


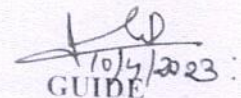
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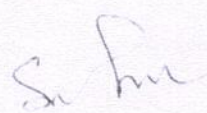
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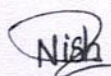
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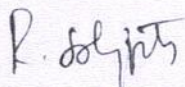
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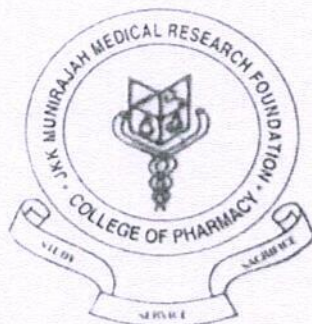
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V.ARUN KUMAR	561958102
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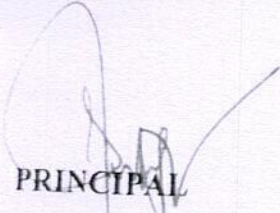


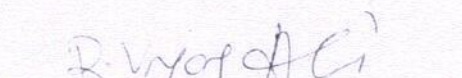
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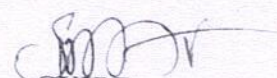


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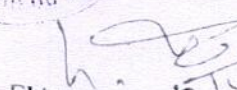
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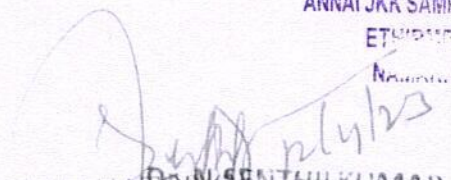


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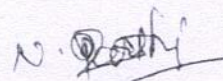
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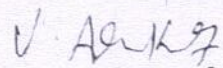
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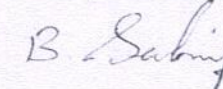
V.ARUN KUMAR

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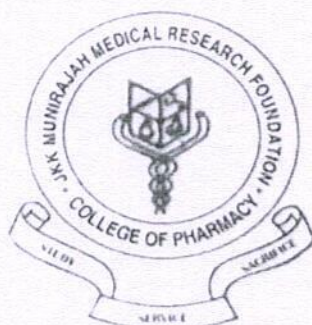
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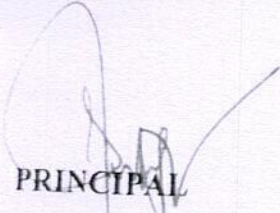


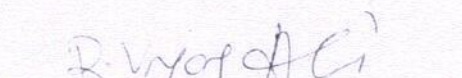
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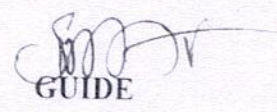


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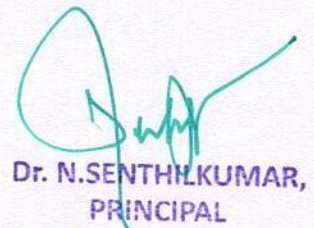

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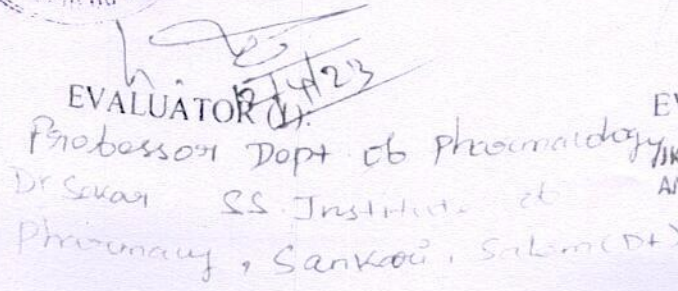
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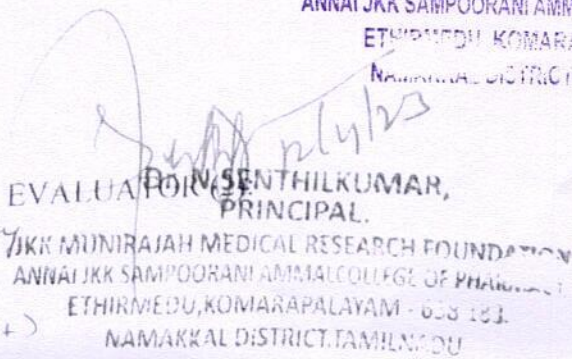


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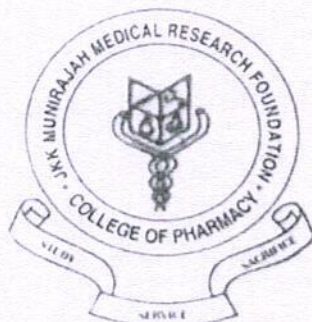
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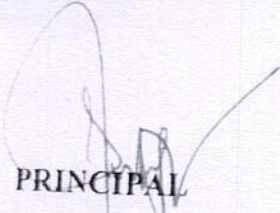


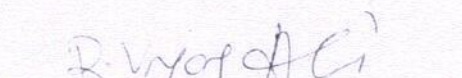
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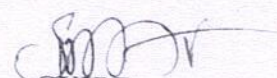


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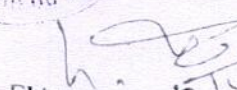
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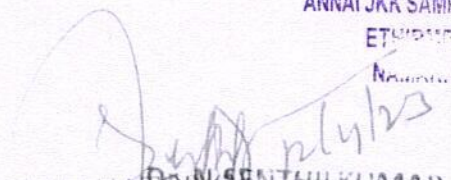


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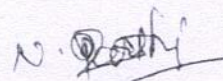
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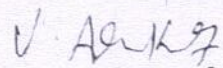
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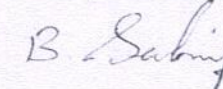
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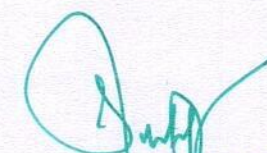
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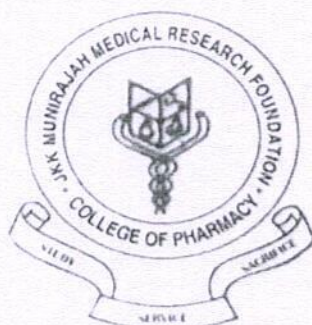
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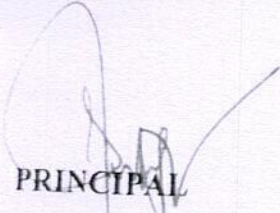


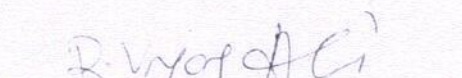
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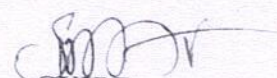


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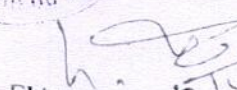
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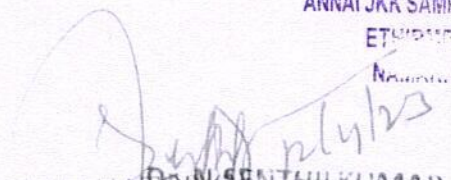


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Associate professor, Department of Pharmacology.



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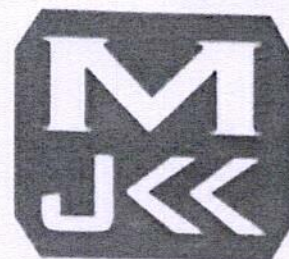


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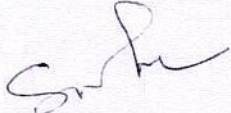


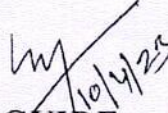
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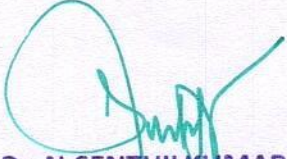
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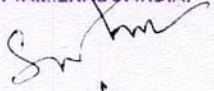
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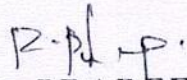
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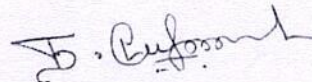
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8. CONCLUSION

A number of ethnomedicinal plants have been found as potent neurobehavioral substances and those could be served as alternatives to modern medicine. The results of the present investigation are significant and encouraging towards the goal for future utilization and standardization of *Envete Superbum* plant. Our *In-vitro* experiment results show that the higher dose (500 µg/ml) of EEESP has significant anti-inflammatory activity. The present study is the first evidence of the anti-inflammatory properties of *Envete Superbum*. It is concluded that anti-inflammatory effects of *Envete Superbum* might be due to the presence of phenolic compounds and flavonoids.

FUTURE RECOMMENDATION

This evaluation also suggested that further study is required for isolation, identification of active constituents and to confirm exact mechanisms in order to find an effective drug against anti-inflammatory activity.



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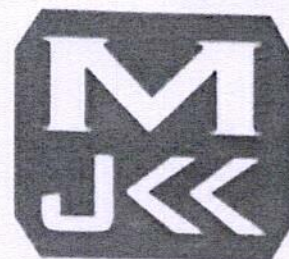


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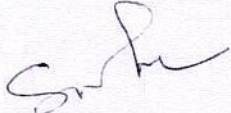


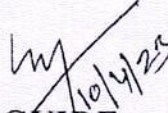
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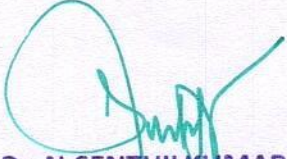
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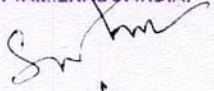
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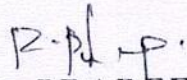
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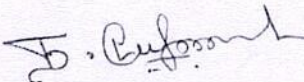
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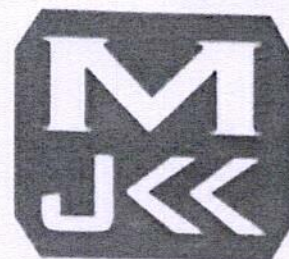


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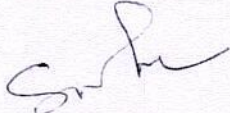


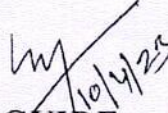
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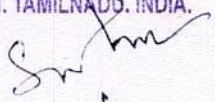

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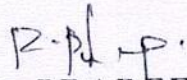
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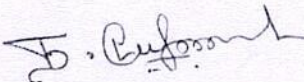
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**TO FIND OUT THE STRENGTH AND WEAKNESS OF DRUG REGULATORY
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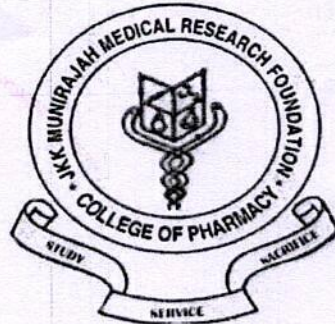
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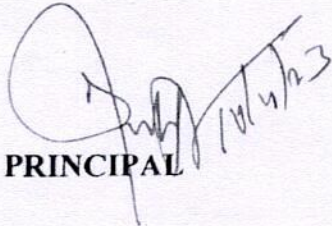
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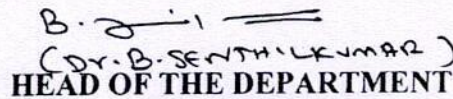


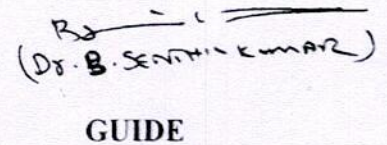
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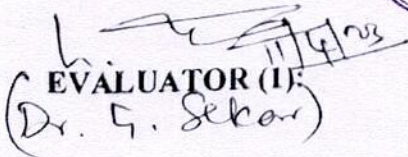

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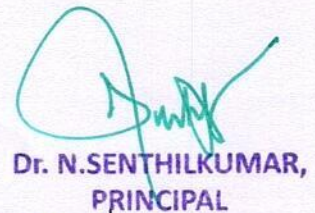
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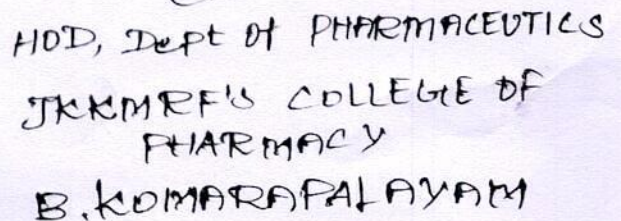

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DECLARATION

We hereby declare that this thesis entitled "TO FIND OUT THE STRENGTH AND WEAKNESS OF DRUG REGULATORY AFFAIRS IN PHARMACEUTICAL INDUSTRY" is a genuine research work carried out by us under the guidance and supervision of Dr. B.SENTHILKUMAR, M.Pharm., Ph.D., Professor and Head in the Department of Regulatory Affairs, JKKMMRF'S ANNAI JKK SAMPOORANI AMMAL COLLEGE OF PHARMACY, Komarapalayam, for the partial fulfillment of the requirement for the degree of bachelor of Pharmacy.

We further declare that this work has not been submitted earlier in part or full for the award of any degree or diploma to this or any other University. The information furnished in this thesis is genuine to the best of our knowledge and belief.

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R. Ranjith

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9. CONCLUSION

Our country is in the phase of transition from Developing country to Developed country, concomitantly strengthening the Drug Regulation system of the country. Though Indian Drug Regulation need to be reformed due to lacunae, deficiencies and hurdles in regulation system; it has a wide scope for growth and Pharmaceutical industry has a bright future here. While reforming and restructuring the Indian drug regulatory system, regulators should keep in mind the threats in the said field and should take decision to combat them. Changes done in Drug Regulation of India should be properly implemented to take our nation at peak. It is the time where Indian regulatory system needs to be strengthened and should bring in more regulatory reforms in the drug control administration in line with International standards.

However, it also clearly shows that several aspects of the drug regulation process need to be studied further and in much greater detail to improve our understanding of the challenges and limitations that the regulatory bodies face. In this regard, this report is a small contribution to the large volume of research that still needs to be undertaken.



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Under the supervision & guidance of

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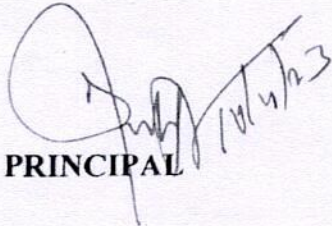
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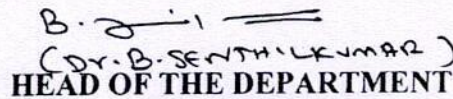


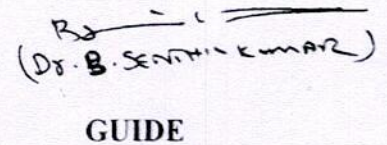
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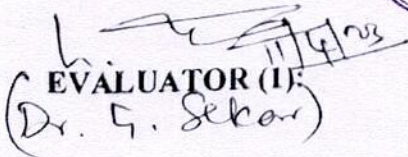

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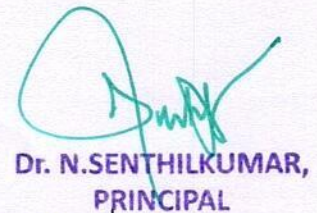
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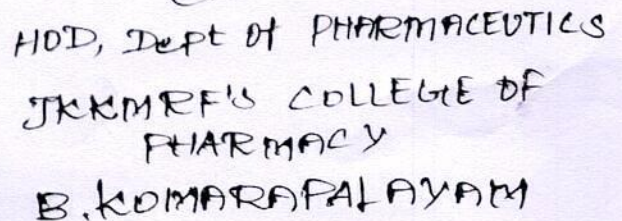

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DECLARATION

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However, it also clearly shows that several aspects of the drug regulation process need to be studied further and in much greater detail to improve our understanding of the challenges and limitations that the regulatory bodies face. In this regard, this report is a small contribution to the large volume of research that still needs to be undertaken.



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**TO FIND OUT THE STRENGTH AND WEAKNESS OF DRUG REGULATORY
AFFAIRS IN PHARMACEUTICAL INDUSTRY**

**Dissertation submitted to
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**In partial fulfillment for the award of the degree of
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Submitted by:

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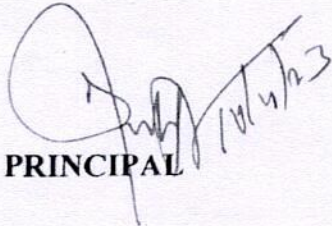
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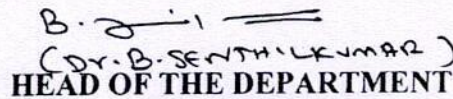


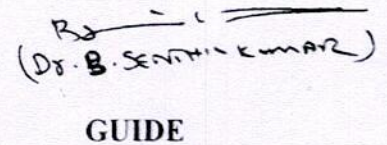
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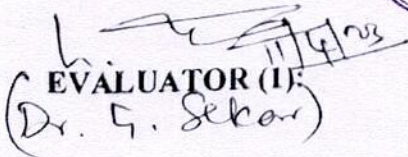

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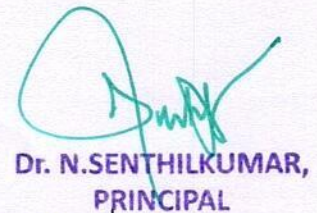
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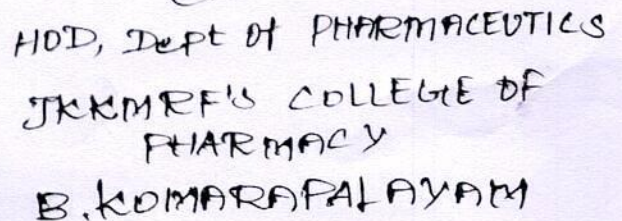

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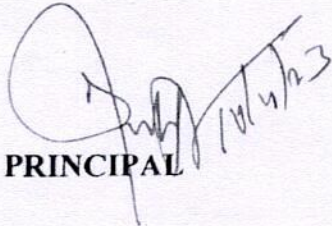
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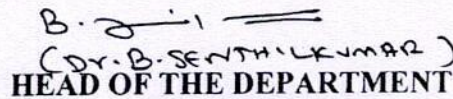


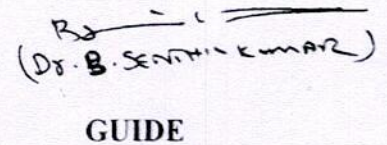
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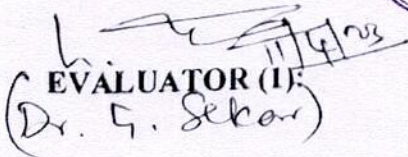

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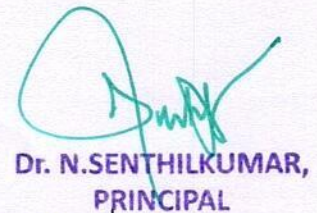
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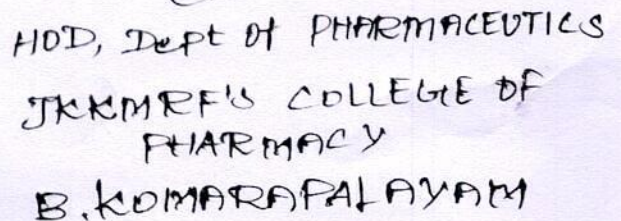

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**ASSESSMENT OF COMMUNITY PHARMACIST PRACTICE
AND PATIENT COUNSELLING EFFORTS DURING
DISPENSING-IN AND AROUND KOMARAPALAYAM**

Dissertation submitted to
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CHENNAI-32**

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

Submitted by:

M. PRAKASHRAJ 561858045

P. BOOPATHIRAJA 561958103


Under the supervision & guidance of
Mr. A. SRINIVASAN, M. Pharm.,



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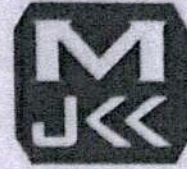



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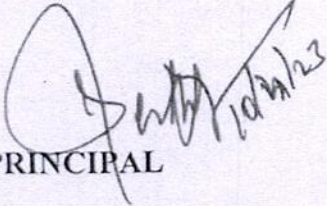
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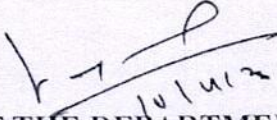
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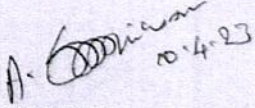
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PRINCIPAL

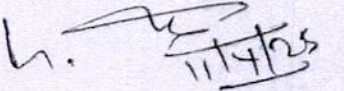

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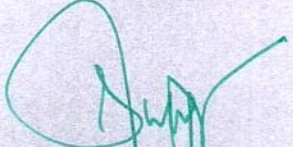
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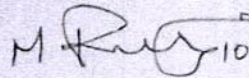
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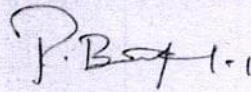
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DECLARATION

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CONCLUSION:

Community pharmacists are doing well their role on processing prescription and talking about immunization, but some of them still need to involve actively on patient counselling & other health promotion.

Even patient counselling offered by majorities of community pharmacist for increase the sales when comparing the reason that getting professional satisfaction.

In this scenario need to be change by conducting educational to program like community pharmacist and make the community pharmacist to realise the important of their role on patient counselling etc.




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**ASSESSMENT OF COMMUNITY PHARMACIST PRACTICE
AND PATIENT COUNSELLING EFFORTS DURING
DISPENSING-IN AND AROUND KOMARAPALAYAM**

Dissertation submitted to
**THE THAMILNADU DR.MGR MEDICAL UNIVERSITY
CHENNAI-32**

In partial fulfilment for the award of the degree of
BACHELOR OF PHARAMCY

Submitted by:

M. PRAKASHRAJ

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P. BOOPATHIRAJA

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Under the supervision & guidance of
Mr. A. SRINIVASAN, M. Pharm.,



DEPARTMENT OF PHAMACY PRACTICE

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MARCH-2023**

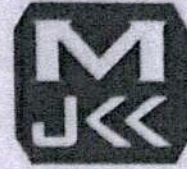



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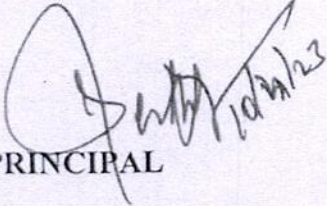
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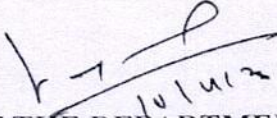
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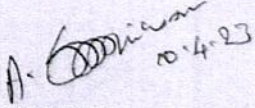
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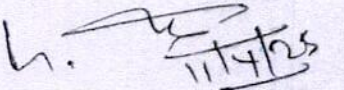

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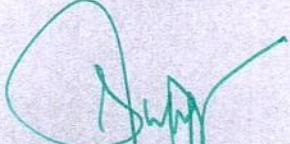
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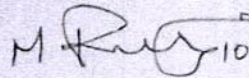
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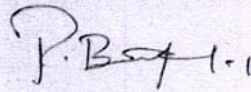
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CONCLUSION:

Community pharmacists are doing well their role on processing prescription and talking about immunization, but some of them still need to involve actively on patient counselling & other health promotion.

Even patient counselling offered by majorities of community pharmacist for increase the sales when comparing the reason that getting professional satisfaction.

In this scenario need to be change by conducting educational to program like community pharmacist and make the community pharmacist to realise the important of their role on patient counselling etc.




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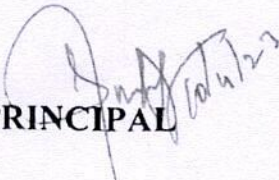
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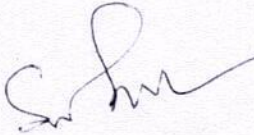
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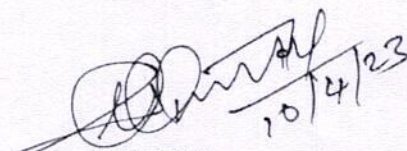
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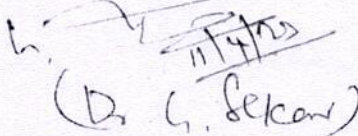

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From the results, we concluded the EECRL exhibited good anti-inflammatory activity by the ability to inhibition of albumin denaturation and Anti-alzheimer activity by inhibiting acetylcholinesterase. This study gives the idea that EECRL can be used as a lead compound for designing a potent anti-inflammatory drug that can be used for the treatment of various diseases such as cancer, neurological disorder, aging, and inflammation.



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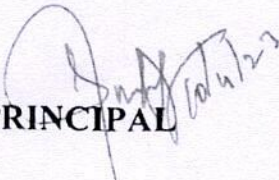
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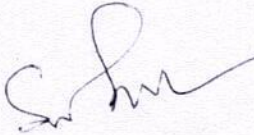
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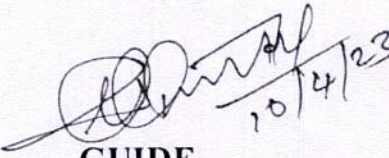
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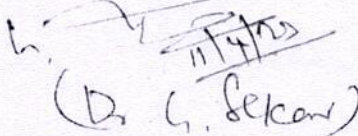

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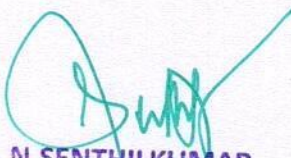

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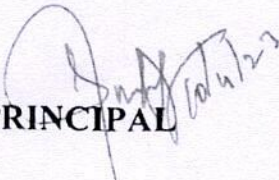
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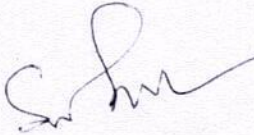
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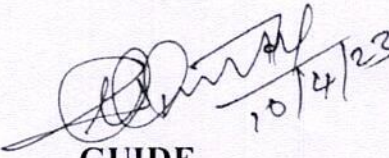
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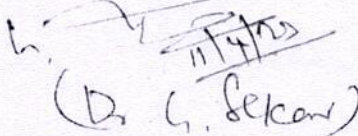

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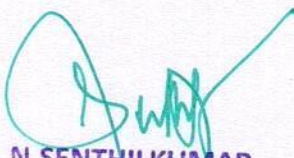

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Under the supervision & guidance of

Mr. G.MUTHUKUMARAN., M.Pharm., Ph.D.,

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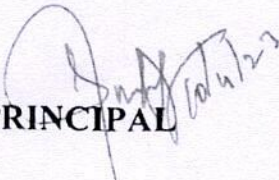
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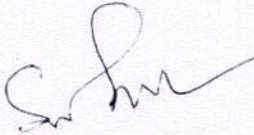
CERTIFICATE

This is to certify that the dissertation work entitled "*INVITRO ANTI-INFLAMMATORY AND ANTI -ALZHEIMER EFFECT OF ETHANOLIC EXTRACT OF CALAMUS ROTANG L LEAVES*" is the bonafide work carried out by, Ms. SNEHA .A (561858066), Mr. SRIDHAR .B (561858070), Mr .SUBASH .M (561858076), Mr .VIJAYANAGARAJ .S (561858087), under the guidance and supervision of Mr. MUTHUKUMARAN .G., M.Pharm ., Ph.D., Associate Professor, Department of Pharmacology.

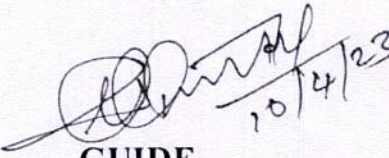
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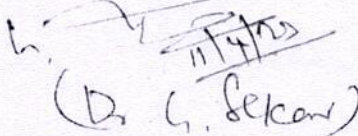

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9. CONCLUSION

From the results, we concluded the EECRL exhibited good anti-inflammatory activity by the ability to inhibition of albumin denaturation and Anti-alzheimer activity by inhibiting acetylcholinesterase. This study gives the idea that EECRL can be used as a lead compound for designing a potent anti-inflammatory drug that can be used for the treatment of various diseases such as cancer, neurological disorder, aging, and inflammation.



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**FORMULATION AND IN VITRO EVALUATION OF
MUCOADHESIVE BUCCAL TABLETS OF LOSARTAN
POTASSIUM USING SYNTHETIC AND NATURAL
POLYMER**

A Dissertation submitted to

**THE TAMILNADU Dr.M.G.R.MEDICAL UNIVERSITY
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*In partial fulfillment of the requirements for the award of the degree
of*

BACHELOR OF PHARMACY

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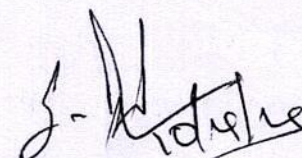


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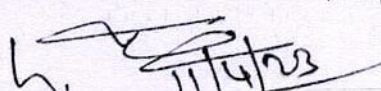

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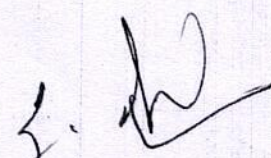
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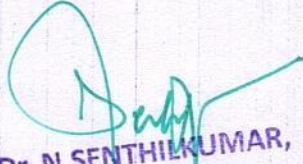
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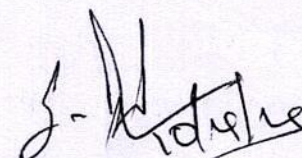


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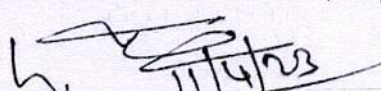

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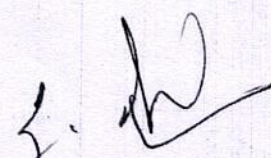
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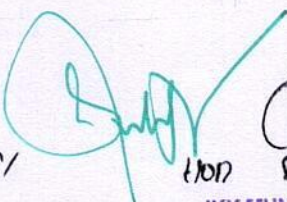
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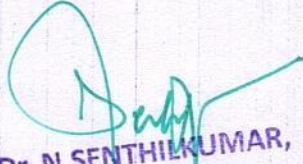
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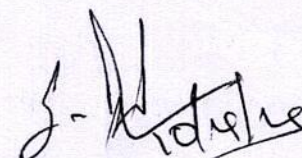


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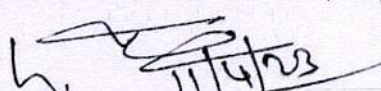

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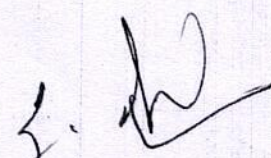
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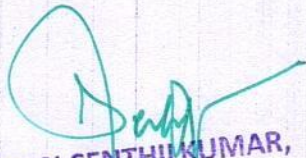
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