

Volume 10, Issue 10, 2019
ISSN: 1944-1604 (Online)

Research Journal of Pharmacy and Technology

RJPT

An International Peer-reviewed
Journal of Pharmaceutical Sciences

Indexed/Abstracted in

ISA: Indian Science Abstracts

CAS: Chemical Abstracts Service (CAS)

CAB: Abstract

Google Scholar

Scopus

RJPT

[ABOUT JOURNAL \(ABOUTJOURNAL.ASPX\)](#)

[CONTACT US \(CONTACTUS.ASPX\)](#)



Research Journal of Pharmacy and Technology

[\(Home.aspx\)](#)

ISSN

0974-360X (Online)

0974-3618 (Print)

[HOME \(HOME.ASPX\)](#)

[PAST ISSUES \(PASTISSUES.ASPX\)](#)

[EDITORIAL BOARD \(EDITORIALBOARD.ASPX\)](#)

[Submit Article \(SubmitArticle.aspx\)](#)

[FOR AUTHORS \(v\)](#)

[MORE \(v\)](#)

[NEWS \(NEWS.ASPX\)](#)

search



EDITOR IN CHIEF



DR. MRS. MONIKA S. DAHARWAL ()

Editor In Chief

A & V Publications, RJPT House, Lokmanya GrihNirman Society, Rohanipuram, In-front of Sector- 1, Pt. Deendayal Upadhyay Nagar, Raipur 492 010. (CG) India

Email: editor.rjpt@gmail.com

[Home Page \(\)](#)



Research Journal of Pharmacy and Technology (RJPT) is an international, peer-reviewed, multidisciplinary journal...

[Read more >>> \(AboutJournal.aspx\)](#)

RNI: CHHENG00387/33/1/2008-TC

DOI: 10.52711/0974-360X

ASSOCIATE EDITOR



MARWAN MAHMOOD SALEH ()

Associate Editor

Anbar-Ramadi- Habbaniya- 4-4-17



DHANANJAY BABANRAO DESHMUKH ()

Associate Editor

Ashvin college of pharmacy manchi hill ashvi Bk sangamner Ahmednagar

1.3

2021 CiteScore

56th percentile

Powered by **Scopus**

[Chat with us](#)

https://www.scopus.com/sourceid/21100197160?dgcid=sc_widget_citescore

Email:
bio.marwan92@gmail.com
[Home Page \(\)](#)

Email:
dhananjaydeshmukh777@gmail.com
[Home Page \(\)](#)



DR.RER.NAT ARLI ADITYA PARIKES ()
Associate Editor
Department of Bioinformatics
School of Life Sciences
Indonesia International
Institute for Life Sciences Jl.
Pulomas Barat Kav.88 Jakarta
13210
Email: arli.parikesit@i3l.ac.id
[Home Page \(\)](#)



DR G KUMARASWAMY ()
Associate Editor
Dr.Kumara Swamy. Gandla
Prof.& HeadDept.of
Pharmaceutical AnalysisCare
College of Pharmacy, Warangal,
Telangana.Mobile: +91-
9000973789
Email:
kumaraswamy.gandla@gmail.com
[Home Page \(\)](#)



HARDIK PATHAK ()
Associate Editor
222 pashupatinath nagar, jaipur
Email: hardikaeshu@gmail.com
[Home Page \(\)](#)



MARIIA SHANAIDA ()
Associate Editor
46001, Ternopil, Voli Str., 1.
Ukraine
Email: shanayda-mi@ukr.net
[Home Page \(\)](#)



DR. G. MANIKANDAN ()
Associate Editor
Dr. G.Manikandan Assistant
Professor Department of
Botany Sri Kaliswari College
(Autonomous) Sivakasi -
626130 Tamil Nadu India
Email: rgmani.19@gmail.com
[Home Page \(\)](#)



DR.S.MOHANASUNDARAM ()
Associate Editor
Department of Biochemistry,
Sri Sankara Arts and Science
College (Autonomous),
Kanchipuram - 631561,
Tamilnadu, India
Email:
sbmohan2007@gmail.com

Research Journal of Pharmacy and Technology



(<https://www.scimagojr.com/journalsearch.php?q=21100197160&tip=sid&exact=no>)

Journal Policies & Information

- Focus & Scope
(FocusScope.aspx)
- Informed Consent
(InformedConsent.aspx)
- Competing Interests
(CompetingInterests.aspx)
- Privacy Policy
(PrivacyPolicy.aspx)
- Advertisement Policy
(AdvertisementPolicy.aspx)
- Disclaimer (Disclaimer.aspx)
- Plagiarism Policy
(PlagiarismPolicy.aspx)
- Publication Ethics
(PublicationEthics.aspx)
- Reviewers' Guidelines
(ReviewersGuidelines.aspx)
- Review Policy
(ReviewPolicy.aspx)
- Correction and Retraction
Policy
(CorrectionRetractionPolicy.aspx)

Chat with us

[Home Page \(\)](#)



DR SHAEESTA K. BHAVIKATTI
()
Associate Editor
College of Dentistry, King
Khalid University, Abha, Saudi
Arabia
Email: drshaeesta@gmail.com
[Home Page \(\)](#)



DR KARTEEK ESWARA
()
Associate Editor
T2,staff quarters, ksr
Institutions, ksr kalvi nagar,
Tiruchengode-637215,
Tamilnadu
Email:
karteekeswara@gmail.com
[Home Page \(\)](#)



**DR. CHUKWUEBUKA
EMMANUEL UMEYO**
()
Associate Editor
Department of Pharmaceutics
and Pharmaceutical Technology,
Faculty of Pharmaceutical
Sciences, Nnamdi Azikiwe
University, Awka, Anambra
State, Nigeria
Email:
ec.umeyor@unizik.edu.ng
[Home Page \(\)](#)



**DR. PRANAV KUMAR
PRABHAKAR**
()
Associate Editor
Department of
Transdisciplinary Research,
Division of Research &
Development, Lovely Professional
University, Phagwara, Punjab,
India-144402
Email:
prabhakar.iitm@gmail.com
[Home Page \(\)](#)



EBAA ADNAN AZOOZ
()
Associate Editor
Iraq, Najaf
Email:
ebaaadnan.ed12p@uokufa.edu.iq
[Home Page \(\)](#)



PROF. VIJAY D. MENDHULKAR
()
Associate Editor
Prof. and Head, Department of
Botany The Institute of Science
15- Madame Cama Road Fort,
Mumbai

QUICK LINKS

 [SUBMIT ARTICLE](#)
([SUBMITARTICLE.ASPX](#))

 [AUTHOR'S
GUIDELINES](#)
([DOWNLOADS/INSTRUCTIONS_TO_AUTHOR.PDF](#))

 [PAPER TEMPLATE](#)
([DOWNLOADS/PAPER_TEMPLT.DOC](#))

 [COPYRIGHT FORM](#)
([DOWNLOADS/COPYRIGHT
TRANSFER FORM.DOCX](#))

 [CERT. OF CONFLICT OF
INTREST](#)
([DOWNLOADS/CERTIFICATE
OF CONFLICT OF
INTREST.PDF](#))

 [PROCESSING CHARGES](#)
([CHARGESDETAILS.ASPX](#))

 [INDEXING
INFORMATION](#)
([INDEXED_IN.ASPX](#))

LATEST ISSUES

 **JANUARY 2026**
(71) ([ISSUES.ASPX?](#)
VID=19&IID=1)

 **DECEMBER 2025**
(77) ([ISSUES.ASPX?](#)
VID=18&IID=12)

[Chat with us](#)



DR. SUBRAT KUMAR PATTANAYAK ()
Associate Editor
Department of Chemistry NIT
Raipur -492010,India
Email: skpiitbbs@gmail.com
[Home Page](#) ()



SONAM BHATIA ()
Associate Editor
Dept. of Pharmaceutical
Sciences, Faculty of Health
Science, Sam Higginbottom
University of Agriculture,
Technology and Sciences,
Prayagraj, India
Email:
sonamniper.bhatia@gmail.com
[Home Page](#) ()



HUSSEIN O.M. AL-DAHMOUSHI ()
Associate Editor
Iraq, Babylon Province Hilla
City
Email:
dr.dahmوشي83@gmail.com
[Home Page](#) ()



DR. UPENDRA PRASAD TRIPATHY ()
Associate Editor
JAYKAYPUR[PAPRI],
RAYAGADA, ODISHA
Email: uptripathy@gmail.com
[Home Page](#) ()



DR. GURJEET KAUR ()
Associate Editor
Amity Institute of
Biotechnology Amity University
Uttar Pradesh Lucknow India
Email: gkaur@lko.amity.edu
[Home Page](#) ()



DR. BISWAJIT BASU ()
Associate Editor
Dr. Biswajit Basu, Associate
Professor. Department of
Pharmaceutics. Bengal School
of Technology, Sugandha, Delhi
Road, Hooghly - 712 102, West
Bengal India.

Email:
drmendhulkar@gmail.com
[Home Page](#) ()

 **NOVEMBER 2025**
(72) (ISSUES.ASPX?
VID=18&IID=11)

 **OCTOBER 2025**
(77) (ISSUES.ASPX?
VID=18&IID=10)

 **SEPTEMBER 2025**
(81) (ISSUES.ASPX?
VID=18&IID=9)

 **AUGUST 2025 (83)**
(ISSUES.ASPX?
VID=18&IID=8)

 **JULY 2025 (77)**
(ISSUES.ASPX?
VID=18&IID=7)

 **JUNE 2025 (72)**
(ISSUES.ASPX?
VID=18&IID=6)

POPULAR ARTICLES

(AbstractView.aspx?
PID=2016-9-11-11)
**Sex determination using
the mastoid process using
South Indian skulls**
(AbstractView.aspx?
PID=2016-9-11-11)

Chat with us



BIMESH KUMAR ()
Associate Editor
BLOCK-4B, ROOM NO 203,
SCHOOL OF
PHARMACEUTICAL
SCIENCES, LOVELY
PROFESSIONAL UNIVERSITY,
PHAGWARA, PUNJAB, 144411
Email:
bimlesh1pharm@gmail.com
[Home Page \(\)](#)



K.MAHALINGAN ()
Associate Editor
RR College of Pharmacy, RR
Nagar, Chickabanawara,
Bangalore- 560090
Email: kmahalingan@gmail.com
[Home Page \(\)](#)



SHANKAR BALU KALBHARE ()
Associate Editor
YSPM'S Yashoda Technical
Campus, Satara 415003
Email: kirankal786@gmail.com
[Home Page \(\)](#)



Email:
bbasu.pharma@gmail.com
[Home Page \(\)](#)



DR.BELLAMKONDA RAMESH ()
Associate Editor
Department of Food
Technology, Vikrama Simhapuri
University, Nellore, Andhra
Pradesh, India-524320
Email: rammygp@gmail.com
[Home Page \(\)](#)



DR LINU MOHAN P ()
Associate Editor
Professor Department of
Pharmacy Practice Al Shifa
College of Pharmacy
Perinthalmanna- Kerala- India
Email:
linumohanp@alshifacollegeofpharmacy.ac.in
[Home Page \(\)](#)



R.SUNDARALINGAM ()
Associate Editor
Assistant Professor,
Department of Microbiology,
Madras Christian College

(AbstractView.aspx?
PID=2020-13-7-74)

**Pharmaceutical
Incompatibilities: Causes,
Types and Major ways of
Overcoming in
Extemporaneous
Medicinal forms**

(AbstractView.aspx?
PID=2020-13-7-74)

(AbstractView.aspx?
PID=2020-13-4-16)

**Formulation and
Evaluation of Herbal
Lipsticks**

(AbstractView.aspx?
PID=2020-13-4-16)

(AbstractView.aspx?
PID=2017-10-9-42)

**Detection of Food
Adulterants in Chilli,
Turmeric and Coriander
Powders by Physical and
Chemical Methods**

(AbstractView.aspx?
PID=2017-10-9-42)

(AbstractView.aspx?
PID=2020-13-1-43)

**Formulation and
Evaluation of Herbal Face
Cream**

(AbstractView.aspx?
PID=2020-13-1-43)

Chat with us

(Autonomous), Tambaram,
Chennai - 600059. Tamilnadu
Email:
sundaralingam@mcc.edu.in
🏠 Home Page ()

(AbstractView.aspx?
PID=2017-10-9-19)
**Formulation and
Evaluation of Aspirin
Tablets by Using Different
Lubricants in Combination
for better Kinetic Drug
Release Study by PCP**

(AbstractView.aspx?
PID=2017-10-9-19)



DR ANUPAM KR SACHAN ()
Associate Editor
Dayanand Dinanath College,
Institute of Pharmacy, Kanpur
Nagar, Uttar Pradesh-208027
Email:
anupamkrsachan@gmail.com
🏠 Home Page ()



MANIKANDAN K ()
Associate Editor
SRM College of Pharmacy SRM
Institute of Science and
Technology Kattankulathur,
Kancheepuram
Email: gurumani12@gmail.com
🏠 Home Page ()

(AbstractView.aspx?
PID=2018-11-7-36)
**Effectiveness of Cucumber
in reduction of Blood
Pressure among
hypertensive clients in
selected Rural Area**

(AbstractView.aspx?
PID=2018-11-7-36)



DR. PAVAN KUMAR ()
Associate Editor
Koneru Lakshmaiah Education
Foundation KLEF
Email: pavankmaths@gmail.com
🏠 Home Page ()



ASHEESH SINGH ()
Associate Editor
M-303, Swastik city near Pooja
park, Lambha turning Narol-
Ahemdabad-382405
Email:
asheesh_parihar@yahoo.com
🏠 Home Page ()

(AbstractView.aspx?
PID=2020-13-3-81)
**Regulatory requirements
for conducting Clinical
Trials in India**

(AbstractView.aspx?
PID=2020-13-3-81)



SWARNIMA PANDEY ()
Associate Editor
Goel Institute of Pharmacy &
Sciences, Faizabad road
lucknow 226028
Email: yesgoldi@gmail.com
🏠 Home Page ()



DR. PARUL JOHRI ()
Associate Editor
C-1/167 indra nagar kanpur
Email: pjohri@lko.amity.edu
🏠 Home Page ()

(AbstractView.aspx?
PID=2019-12-11-80)
Dental Waxes-A Review

(AbstractView.aspx?
PID=2019-12-11-80)

(AbstractView.aspx?
PID=2013-6-2-15)
**Medicinal Plants from
Solanaceae Family**

(AbstractView.aspx?
PID=2013-6-2-15)

Chat with us



MORTEZA SAKI ()
Associate Editor
Department of Microbiology,
Faculty of Medicine Ahvaz
Jundishapur University of
Medical Sciences Ahvaz
Email:
mortezasaki1981@gmail.com
[Home Page \(\)](#)



DUMPALA LAKSHMIPRASUNA
RAJESH ()
Associate Editor
Sumandeep Pharmacy college
AT & PO: PIPARIA,WAGHODIA
ROAD, TA: WAGHODIA,
VADODARA- 391760
Email:
mlakshmiprasuna2015@gmail.com
[Home Page \(\)](#)

(AbstractView.aspx?
PID=2011-4-9-2)

Formulation and Evaluation of Diclofenac gel

(AbstractView.aspx?
PID=2011-4-9-2)

(AbstractView.aspx?
PID=2014-7-9-14)

The Use of Neem in Oral Health

(AbstractView.aspx?
PID=2014-7-9-14)



DR. S. BALASUBRAMANIYAN ()
Associate Editor
National Centre for Coastal
Research Chennai.
Email:
sakthivelbala.s@gmail.com
[Home Page \(\)](#)



PROF. DR. NAGHAM
MAHMOOD ALJAM ()
Associate Editor
Professor, Ph.D, Organic
Chemistry , Iraq
dr.nagham_mj@yahoo.com
Email:
dr.nagham_mj@yahoo.com
[Home Page \(\)](#)

(AbstractView.aspx?
PID=2019-12-1-69)

Recent Advances in Preventive Resin Restoration (PRR)

(AbstractView.aspx?
PID=2019-12-1-69)

(AbstractView.aspx?
PID=2017-10-12-61)

Mathematical Models in Drug Discovery, Development and Treatment of Various Diseases – A Case Study

(AbstractView.aspx?
PID=2017-10-12-61)



ARIF NUR MUHAMMAD
ANSORI ()
Associate Editor
Universitas Airlangga,
Surabaya, Indonesia.
Email: arif.nma-
17@fkh.unair.ac.id
[Home Page \(\)](#)



DR.K.B.BHASKAR ()
Associate Editor
33B, kannadhasan street, new
balaji nagar, selaiyur , chennai.
Email: jaibhaskar15@gmail.com
[Home Page \(\)](#)

(AbstractView.aspx?
PID=2018-11-2-70)

Recent Advancements in Laminates and Veneers in Dentistry

(AbstractView.aspx?
PID=2018-11-2-70)

Chat with us



DIMPLE NAGPAL ()
Associate Editor
Chitkara University,Punjab
Email:
dimplenagpal009@gmail.com
[Home Page \(\)](#)



DR VINAYAKUMAR KADIBAGIL
()
Associate Editor
BELUR ROAD, 2ND CROSS
ABHI Building
Email:
DRVINAYKADIBAGIL@GMAIL.COM
[Home Page \(\)](#)



DR. ATUL KABRA ()
Associate Editor
University Institute of Pharma
Sciences Chandigarh University
Mohali, Punjab
Email: atul.kbr@gmail.com
[Home Page \(\)](#)



MOHD IBRAHIM ALARAJ ()
Associate Editor
Airport St. Amman, Jordan
Email:
ibrahim_naseem@yahoo.com
[Home Page \(\)](#)



RAVINANDAN A P ()
Associate Editor
Mr. Ravinandan A P, M. Pharm,
MBA, FSASS, (Ph.D.) Assistant
Professor, Clinical Pharmacist
and Research Scholar
Department of Pharmacy
Practice Sree Siddaganga
College of Pharmacy In
Collaboration with Siddaganga
Hospital and Research Centre
BH Road, Tumkur, Karnataka,
India
Email:
ravinandanap@gmail.com
[Home Page \(\)](#)



DR. PUTTA RAJESH KUMAR ()
Associate Editor
Dr. Putta Rajesh Kumar, C/o:
Amdapur X Road, Yenkapally,
Moinabad, Ranga Reddy,
Hyderabad, Telangana 500075
INDIA Mobile: 0-949-072-1376
Email: prkbpc@gmail.com
[Home Page \(\)](#)

[Chat with us](#)



DR. SRIKANTH JEYABALAN ()

Associate Editor
Department of Pharmacology
Sri Ramachandra Faculty of
Pharmacy Sri Ramachandra
Institute of Higher Education &
Research (DU) Porur, Chennai,
Tamil Nadu - 600 116

Email:
srikanth.j@sriramachandra.edu.in

[🏠 Home Page \(\)](#)



PROF.B.RAMYA KUBER ()

Associate Editor
Prof.B.Ramya Kuber, Professor
of Pharmacognosy Institute of
Pharmaceutical Technology, Sri
Padmavati Mahila
Visvavidyalayam(Women's
University), Tirupati-517502,
Andhra Pradesh,India.

Email:
rkuberpharma@yahoo.com

[🏠 Home Page \(\)](#)



DR GOVINDH BODDETI ()

Associate Editor
Door Number: 1-1-33/A, New
Venkojipalem

Email: govindhbd@gmail.com

[🏠 Home Page \(\)](#)



DR DURGESH RANJAN KAR ()

Associate Editor
BENGAL SCHOOL OF
TECHNOLOGY A COLLEGE OF
PHARMACY SUGHANDHA
CHUCHURA DIST- HOOGHLY
WEST BENGAL INDIA

Email: durgesh176@gmail.com

[🏠 Home Page \(\)](#)



MORTHA LAKSHMI
PRASANNA ()

Associate Editor
VJ'S COLLEGE OF PHARMACY
Diwancheruvu Rajahmundry,
andhra pradesh Pin 533296

Email:
luckympharma09@gmail.com

[🏠 Home Page \(\)](#)



DR. GARIMA MISHRA ()

Associate Editor
Department of Pharmacy,
College of Health Sciences,
Debre Tabor University,
Ethiopia

Email:
gp_nmr2002@yahoo.co.in

[🏠 Home Page \(\)](#)

[Chat with us](#)



DR. PRADEEP SINGH ()
Associate Editor
Department of Pharmacy,
College of Health Sciences,
Debre Tabor University,
Ethiopia
Email:
pradeep_2682@yahoo.co.in
[🏠 Home Page \(\)](#)



DR. DAVID PAUL ()
Associate Editor
St.James College of
Pharmaceutical Sciences
St.James Medical Academy
River Bank, Chalakudy Kerala,
India-680307
Email: davidpaulred@gmail.com
[🏠 Home Page \(\)](#)



DR.S.SASIKALA ()
Associate Editor
Head and Associate professor
Department of Computer
Science with Cognitive Systems
Hindusthan College of Arts and
Science, Coimbatore – 641028,
Tamilnadu, India.
Email:
iamsasikalamohit@gmail.com
[🏠 Home Page \(\)](#)



DR. A.K. JHA ()
Associate Editor
Principal, Shri Shakaracharya
College of Pharma. Sciences,
Bhilai CG India
Email: jhaaak@rediffmail.com
[🏠 Home Page \(\)](#)



DR. NAGHAM MAHMOOD
ALJAMALI ()
Associate Editor
college Education , department ,
IRAQ.
Email:
dr.nagham_mj@yahoo.com
[🏠 Home Page \(\)](#)



DR. R. B. KAKADE ()
Associate Editor
Professor, Uni. Dept. of
Pharmaceutical Sci., RTM
Nagpur University, Nagpur
India
Email: drkakde@yahoo.com
[🏠 Home Page \(\)](#)

[Chat with us](#)



WISSAM ZAM ()
Associate Editor
Al-Andalus University of
Medical Sciences/Faculty of
Pharmacy-Tarous, Syria
Email: w.zam@au.edu.sy
[Home Page \(\)](#)



DR. VIBHA YADAV ()
Associate Editor
Covington, LA, USA
Email: editor.rjpt@gmail.com
[Home Page \(\)](#)



DR. S. ASHUTOSH KUMAR ()
Associate Editor
Department of Pharmacy,
Tripura University (A Central
University) Suryamaninagar,
West Tripura, Tripura- 799022.
Email:
ashu.mpharm2007@gmail.com
[Home Page \(\)](#)



DR. U.S. MAHADEVA RAO ()
Associate Editor
Kuala Terengganu, Malaysia
Email: raousm@gmail.com
[Home Page \(\)](#)



CHANDRASEKARAN V M ()
Associate Editor
124 Technology Tower VIT
University Vellore 632014 (TN)
Email: vmcsn@yahoo.com
[Home Page \(\)](#)



NAEEM HASAN KHAN ()
Associate Editor
Faculty of Pharmacy, AIMST
University, 08100 Bedong,
Kedah D.A., Malaysia.
Email:
naeemhshirazi@hotmail.com
[Home Page \(\)](#)

DR. DEEPANSH SHARMA ()

DR. S. SARAF ()

Chat with us



Associate Editor
Block 28, Room No. 202
Department of Biosciences,
Lovely Professional University
Email:
deepanshsharma@gmail.com
[🏠 Home Page \(\)](#)



Associate Editor
Professor, University Institute
of Pharmacy , PT. Ravishankar
Shukla University, Raipur-
492010 CG India Vice-
President, Pharmacy Council of
India, New Delhi
Email:
shailendrasarf@rediffmail.com
[🏠 Home Page \(\)](#)



DR. DEEPENDRA SINGH ()
Associate Editor
University Institute of
Pharmacy Pt. Ravishankar
Shukla University Raipur(C.G.)
Email:
deependraiop@gmail.com
[🏠 Home Page \(\)](#)



DR S RAJESHKUMAR ()
Associate Editor
Nanotherapy Lab School of
Biosciences and Technology,
VIT, Vellore
Email:
ssrajeshkumar@hotmail.com
[🏠 Home Page \(\)](#)



VASUNDHRA KASHYAP PHD,
MBA, MS ()
Associate Editor
66 Lowden Avenue, Somerville,
MA 02144 USA
Email: vk76@cornell.edu
[🏠 Home Page \(\)](#)



ROMAN LYSIUK ()
Associate Editor
Department of Pharmacognosy
and Botany, Danylo Halytsky
Lviv National Medical
University, Pekarska,69., Lviv,
Ukraine, 79010
Email:
pharmacognosy.org.ua@ukr.net
[🏠 Home Page \(\)](#)

BEHZAD FOROUTAN ()

[Chat with us](#)



Associate Editor
Department of Pharmacology,
School of Medicine, Shahroud
University of Medical Sciences,
Shahroud, Iran
Email:
behzad_foroutan@hotmail.com
[🏠 Home Page \(\)](#)

ACADAMIC EDITOR



DR. BHARTI AHIRWAR ()
Associate Professor, SLT
Institute of Pharm. Sciences,
Guru Ghasidas University,
Bilaspur CG India
Email: ah_bharti@yahoo.com
[🏠 Home Page \(\)](#)



SUDHISH A. RAI ()
RJPT House, Lokmanya
GrihNirman Society,
Rohanipuram, In-front of
Sector- 1, Pt. Deendayal
Upadhyay Nagar, Raipur 492
010. (CG) India
Email:
sudhishrai7337@gmail.com
[🏠 Home Page \(\)](#)



SANYAM GANDHI ()
International Regulatory
Strategy Lead Takeda
Pharmaceutical Company Ltd.,
1 Kingdon St., Paddinton,
London, W2 6BD England
Email:
askforsanyam@gmail.com
[🏠 Home Page \(\)](#)



DR. AJAY KUMAR MEENA ()
Captain Srinivasa Murthy
Regional Ayurveda Drug
Development
Institute, Arumbakkam, Chennai
- 600 106
Email: ajaysheera@gmail.com
[🏠 Home Page \(\)](#)

[Chat with us](#)

EDITORS



DR AVINASH B DAREKAR ()
KVNNSPS, Institute of
Pharmaceutical Education and
Research, Canada
Corner, Nashik, Maharashtra-
422002.
Email: avibdarekar@gmail.com
[Home Page \(\)](#)



PRAVEEN KUMAR SHARMA ()
Department of Chemistry,
Lovely Professional University,
Phagwara, Punjab, India-
144411
Email:
pk_pandit1982@yahoo.com
[Home Page \(\)](#)



DR SUDIP KUMAR MANDAL ()
Dr. B. C. Roy College of
Pharmacy & Allied Health
Sciences, Durgapur, West
Bengal, India
Email: gotosudip79@gmail.com
[Home Page \(\)](#)



DR K MANIKANDAN ()
Dr. K. Manikandan, M.Pharm.,
Ph.D., Associate Professor, SRM
College of Pharmacy, SRM
University, Kattankulathur,
Kancheepuram - 603203
Mobile Number - 0
9444708710
Email:
manikank2@srmist.edu.in
[Home Page \(\)](#)



DR SHAIK HARUN RASHEED ()
professor & Head Srikrupa
Institute of Pharmaceutical
Sciences Velikatta, Siddipet
-502277 Telangana.
Email:
shaikharunrasheed@gmail.com
[Home Page \(\)](#)



DR. ASHISH KUMAR ()
Professor and HOD,
Department of Chemistry,
Lovely Professional University,
Jalandhar road Phagwara
Email:
drashishchemlpu@gmail.com
[Home Page \(\)](#)

[Chat with us](#)



DR. SHAKTA MANI SATYAM ()
Department of Pharmacology,
Melaka Manipal Medical
College (Manipal Campus),
Manipal Academy of Higher
Education, Manipal- 576104,
District- Udupi, State-
Karnataka (India)
Email: smsatyam21@gmail.com
[🏠 Home Page \(\)](#)



ABDULRAHMAN R. MAHMOOD
()
*Department of Chemistry,
College of Education for Pure
Sciences/(Ibn-Al-Haitham),
University of Baghdad,
Baghdad, Iraq.
Email:
abdooaljumaily@gmail.com
[🏠 Home Page \(\)](#)



DR. SUSHIL KUMAR MIDDHA ()
Maharani Lakshmi Ammanni
College For Women, 18th
Cross, Malleswaram,
Bangalore-12
Email:
drsushilmiddha@gmail.com
[🏠 Home Page \(\)](#)



MUNIM R. ALI ()
Al-Mustansiriyah University
Biology depart./college of
Science Iraq/Baghdad
Email: mnumbio77@yahoo.com
[🏠 Home Page \(\)](#)



DR. GAURAV TIWARI ()
G-23, Department of Pharmacy,
PSIT, NH-2, Kalpi Road, Bhaunti
Kanpur 209305
Email: dr.gauravtiwari@psit.in
[🏠 Home Page \(\)](#)



DR. ZEYAD KADHIM OLEWI ()
najaf-iraq
Email:
zeyadkadhim@alkafeel.edu.iq
[🏠 Home Page \(\)](#)

Chat with us



ASSIST. PROF. DR. AMAL
TALIB A ()
Dept. Clinical Laboratory
Sciences/ Faculty of Pharmacy/
University of Babylon, Iraq.
Email: amal.atiyah@yahoo.com
[🏠 Home Page \(\)](#)



YAHIA MOHAMMAD MOUALLA
()
Alsham private university,
Latakia
Email:
Yahiamoualla@hotmail.com
[🏠 Home Page \(\)](#)



MOHANAD MOUSA KAREEM ()
Babylon University
Email:
mohanad_1972@yahoo.com
[🏠 Home Page \(\)](#)



ADAWIYA FADHIL ABBAS
ALZUBAIDI ()
Iraq / Diyala / Baqubah Diyala
university / education college /
pure science
Email:
adwa_a2000@YAHOO.COM
[🏠 Home Page \(\)](#)



MOUSHIRA ZAKI ()
El Bhouth ST.
Email: moushiraz@yahoo.com
[🏠 Home Page \(\)](#)



DR. AMIT KUMAR
CHATURVEDI ()
Department Of Chemistry,
J.S.University , Shikohabad
(U.P.)
Email:
achaturvedi794@gmail.com
[🏠 Home Page \(\)](#)



DR. MANOJ KUMAR JENA ()
Department of Biotechnology,
School of Bioengineering and
Biosciences, Lovely



AVINASH BABURAO THALKARI
()
Vasant Pharmacy College Kaij
Affiliated by MSBTE Mumbai

Chat with us

Professional University,
Phagwara-144411, Punjab,
India
Email: manoj.20283@lpu.co.in
[🏠 Home Page \(\)](#)

Email:
avinashthalkari@rediffmail.com
[🏠 Home Page \(\)](#)



RAJESH L. DUMPALA ()
Alembic Pharma Campus,
Alembic Rd, Subhanpura,
Vadodara, Gujarat 390003
Email: rdumpala64@gmail.com
[🏠 Home Page \(\)](#)



ABDULRAHMAN R. MAHMOOD
()
*Department of Chemistry,
College of Education for Pure
Sciences/(Ibn-AI-Haitham),
University of Baghdad,
Baghdad, Iraq.
Email:
abdulrahman.r.m@ihcoedu.uobaghdad.edu.iq
[🏠 Home Page \(\)](#)



DR.T.C.VENKATESWARULU ()
Department of Bio-Technology,
Vignan's Foundation for
Science, Technology &
Research, Vadlamudi-522213,
Andhra Pradesh
Email:
venki_biotech327@yahoo.com
[🏠 Home Page \(\)](#)



DR PRASHANT L. PINGALE ()
Associate Professor of
Pharmaceutics, GES's Sir Dr. M.
S. Gosavi College of
Pharmaceutical Education and
Research, Nashik-422005,
Maharashtra, India
Email:
prashantpingale@gmail.com
[🏠 Home Page \(\)](#)



DR GURVINDER SINGH ()
School of Pharmaceutical
Sciences, Lovely Professional
University, Phagwara, Punjab
Email: guri_ph@yahoo.co.in



DR.SUSHANT KUMAR ()
UTTAR PRADESH UNIVERSITY
OF MEDICAL SCIENCES,
SAIFAI, ETWAH, UTTAR
PRADESH

Chat with us

[🏠 Home Page \(\)](#)

Email:
K.SUSHANT25@GMAIL.COM
[🏠 Home Page \(\)](#)



MR. PARESH ASHOK PATIL ()
Jay ambe Nivas,Gujar galli,
Shahada Dist-Nandurbar
Email:
rcp.pareshepatil@gmail.com
[🏠 Home Page \(\)](#)



VAMSIKRISHAN BIRUPANENI
()
4401 manchester avenue,
Apt#53,CA,95207.
Email:
vamsikrishan99@gmail.com
[🏠 Home Page \(\)](#)



DR. SUNIL KUMAR ()
122 Ground Floor Research
Block A Post Graduate Institute
of Medical education and
Research
Email:
drsunikumarjaswal@gmail.com
[🏠 Home Page \(\)](#)



SANDEEP PODDAR ()
Lincoln University College,
Wisma Lincoln, No. 12-18, Off
Jalan Perbandaran, SS6/12
Kelana Jaya, Selangor D. E. ,
Malaysia
Email:
sandeepoddar@lincoln.edu.my
[🏠 Home Page \(\)](#)



DR ZAKIR HUSSAIN ()
Dr Zakir hussain S/o MD.UNUS
Rtd Express mail guard SCRLY
Near mohammadia masjid,
Satyanarayana pet GUNTAKAL-
515801 ANANTAPUR DIST
ANDHRA PRADESH-INDIA
Email:
zakirhussains765@gmail.com
[🏠 Home Page \(\)](#)



BASIL A. ABBAS ()
University of Basrah, Basrah,
Iraq
Email:
basil.abbas@uobasrah.edu.iq
[🏠 Home Page \(\)](#)

[Chat with us](#)



DR V. PALANISINGH ()
Puduvadi, Ulagampatti post
Sivagangai Dist, Tamil Nadu PIN
630410
Email: vpalanisingham@gmail.com
[Home Page \(\)](#)



NASIR MUWFAQ YOUNIS ()
University of Mosul _College of
Nursing
Email:
nasir.muwfaq@uomosul.edu.iq
[Home Page \(\)](#)



SANDIP SEN ()
SRIKRUPPA INSITUTE OF
PHARMACEUTICAL
SCIENCES, VELIKATTA,
KONDAPKKA, SIDDIPET-
502277
Email:
sandipsen2010@gmail.com
[Home Page \(\)](#)



DR. BISWA MOHAN SAHOO ()
Roland Institute of
Pharmaceutical Sciences (Biju
Patnaik University of
Technology Nodal Centre of
Research) Berhampur-
760010, Odisha, India
Email:
drbiswamohansahoo@gmail.com
[Home Page \(\)](#)



DR.MATADEEN BHARTI ()
Department of Fluorosis Chief
Medical and Health Office Dhar
District Dhar MP India pin code
454001
Email: drmdbharti@gmail.com
[Home Page \(\)](#)



DR PRASENJIT MONDAL ()
Vaageswari institute of
Pharmaceutical Sciences,
Ramakrishna colony,
Karimnagar, Telangana, India
Email:
prasenjitmyname@gmail.com
[Home Page \(\)](#)

[Chat with us](#)



DR ANJU THAWARE ()
Associate professor, Dept of
sanhita Siddhant
,MGACRCH,salod wardha ,
(DMIMSU,wardha)
Maharashtra ,India
Email:
anju.sanhita@dmimsu.edu.in
🏠 Home Page
(<https://mgachrc.org/departments>)



DR. NITIN SHARMA ()
Department of Biotechnology
Chandigarh Group of Colleges,
Landran, Mohali- 140307
Email: nitin.3994@cgc.edu.in
🏠 Home Page
(<https://www.cgc.edu.in/chandigarh-college-of-technology>)



PROF. GALLA RAJITHA ()
Prof. G. Rajitha, Professor,
Institute of
Pharmaceutical Technology, Sri
Padmavati Mahila
Visvavidyalayam, Tirupati -
517502, Andhra Pradesh, India
Email: rajitha.galla@gmail.com
🏠 Home Page
(<http://www.spmvv.ac.in/>)



ASHISH GUPTA ()
Flat no.E113,Nariman Point,
Mahalaxmi Nagar Indore MP
Email:
ashishgupta@acropolis.edu.in
🏠 Home Page
(www.acropolis.in)



HUSAM AL-HRAISHAWI ()
195 Little Albany St,
Email:
hra10@scarletmail.rutgers.edu
🏠 Home Page
(<https://uomisan.edu.iq/ar/>)



TUHIN SARKAR ()
Jakir Hosssain Institute of
Pharmacy, Vill. & P.O.- Miapur,
Dist.- Murshidabad, Pin:
742225, West Bengal.
Email: gantuhin@gmail.com
🏠 Home Page
(<http://www.jhip-india.co/>)

Chat with us



BHUPENDRA G. PRAJAPATI ()
Ganpat Vidyanagar, Mahesna
384012
Email: bhupen27@gmail.com
🏠 Home Page
(<https://skpcper.guni.ac.in/about/pharmaceutics-and-pharmaceutical-technology>)



DR K RAJYALAKSHMI ()
Department of Pharmaceutical
Chemistry, Vignan Pharmacy
College, Vadlamudi, Guntur, A.P.
Email: drkr13579@gmail.com
🏠 Home Page
(<http://www.vignanpharmacycollege.in>)



SOURAVH BAIS ()
474 VIP PARASPAR NAGAR
Email:
souravh2008.123@rediffmail.com
🏠 Home Page
(<https://sageuniversity.in/pharmadetail#faculty>)



DR. D.S.JAYALAKSHMI ()
Sathyabama Institute of Science
and Technology (deemed to be
University), Rajiv Gandhi Salai,
OMR
Email: jayaanand10@gmail.com
🏠 Home Page
(<https://www.sathyabama.ac.in/>)



DR. PARTHA NIYOGI ()
SCHOOL OF PHARMACY THE
NEOTIA UNIVERSITY
SARISHA, DIAMOND
HARBOUR WEST BENGAL-
743 368
Email: partha.niyogi@tnu.in
🏠 Home Page
(https://www.tnu.in/our_faculty/dr-partha-niyogi/)



DR. RAJIV DUTTA ()
Shobhit Institute of Engineering
& Technology (Deemed-to-be-
University) NH-58, Modipuram
Meerut, UP-250110. India
Email: director.sbt@gmail.com
🏠 Home Page
(rduutta.50megs.com)

PRAVEEN KUMAR UPPALA ()

RAMAKRISHNA REDDY H ()

Chat with us



LIG 163 Alakananda colony,
Vizianagaram, Andhra Pradesh
Email:
praveen.chintu32@gmail.com
🏠 Home Page
(<http://www.ipc.gov.in/>)



#32, Shiva shakti, 4th Cross,
KBL Elite layout, J.P.Nagar 8th
Phase, Bangalore-560108,
Karnataka state, India.
Email: rkreddy_h@yahoo.co.in
🏠 Home Page
(<https://www.apotex.com/in/contact-us>)



DR. PRAVIN KUMAR SHARMA
(
Acropolis Institute of
Pharmaceutical Education and
Research, Indore
Email:
praveensharma910@gmail.com
🏠 Home Page
(<https://aiper.ac.in/>)



DR. FORAT YASIR ALJABERI (
Chemical Engineering
Department, College of
Engineering, Al-Muthanna
University, Samawa, Iraq
Email: furatyasir@mu.edu.iq
🏠 Home Page
(<https://www.rjptonline.org/EditorialBoard.aspx>)



DR. L. NANDHAKUMAR (
Kastooribha gandhi Pharmacy
college Namakkal, Rasipuram
Email:
drndkumar12@gmail.com
🏠 Home Page
(<https://kgpc.edu.in/kgpc/index.php>)



PROF. DR. RAJIV DUTTA (
SHOBHIT UNIVERSITY,
GANGOH
Email: director.sbt@gmail.com
🏠 Home Page
(rdutta.50megs.com)



AHMED ALI MHAWESH (
Baghdad/Iraq Al-Ghadeer
Quarter
Email:
alshammariahmed.a.m@gmail.com



DR JAGDISH KAKADIYA (
Department of Pharmacology,
Parul Institute of Pharmacy and
Research, Parul University,
Vadodara, Gujarat, India

Chat with us

🏠 Home Page
(<https://cv.nahrainuniv.edu.iq/ar/view/464>)

Email:
jagdishkakadiya@gmail.com
🏠 Home Page
(<https://paruluniversity.ac.in/faculty/faculty-of-pharmacy/faculty-members>)



MAJIDA HAMEED KHAZAAL ()
Kufa University
Email:
majdahamed69@yahoo.com
🏠 Home Page
(<http://staff.uokufa.edu.iq/profile.html?majidah.alkhazaali>)



DR. SHOBHIT KUMAR ()
Dr. Shobhit Kumar, Associate Professor, Department of Pharmaceutical Technology, Meerut Institute of Engineering and Technology (MIET), NH-58, Delhi-Roorkee Highway, Meerut-250005, Uttar Pradesh, India. Tel: +91 9675598375 E-mail: shobhitkmr87@gmail.com shobhit.kumar@miet.ac.in
Email:
shobhit.kumar@miet.ac.in
🏠 Home Page
(<https://www.miet.ac.in/pharmacy>)



DR. P. DWARAKANADHA REDDY ()
Annamacharya College of Pharmacy, Rajampet-516126, Andhra Pradesh, India
Email:
dwarakanadhareddyperam@gmail.com
🏠 Home Page
(<https://scholar.google.co.in/citations?user=0ygmkUAAAAJ&hl=en>)



PROF. MATOLE VINOD KALIDAS ()
Shivai Charitable trust's College of Pharmacy, Koregaonwadi Tal. Omerga Dist. Dharashiv Maharashtra India
Email: matole7414@gmail.com
🏠 Home Page
(<https://prsu.ac.in/site/facultydetails?id=484>)

Chat with us



SANKARGANESH ()
3/478, Ajith nagar,
Sathankuppam, Kelambakkam-
603103, Chennai, TN
Email: bilisankar@gmail.com
🏠 Home Page
(<https://hindustanuniv.ac.in/>)



ALAA HUSSEIN AL-DARRAJI ()
Iraq-Misan
Email:
alaa.hussein@uomisan.edu.iq
🏠 Home Page
(<https://www.researchgate.net/profile/Alaa-Al-Darraji/stats/report/weekly/2022-06-12>)



MANISH KUMAR ()
SD College, Barnala-148101,
Punjab, India.
Email:
manish@sdcollegeinstitutions.org
🏠 Home Page
(<http://sdcollegeinstitutions.org/S.D.%20College/index.php>)



DR. DINANATH TUKARAM
GAIKWAD ()
223, Shamrao Kumbhar Nagar,
Nanapatil Nagar, Kolhapur,
Maharashtra, India
Email: gdinanath@gmail.com
🏠 Home Page
(<http://copkolhapur.bharatividyapeeth.edu/>)



DR.AHMED HAMZA AL-
SHAMMARI ()
Iraq-Baghdad
Email:
Ahmed.h.mezaal@alkutcollege.edu.iq
🏠 Home Page
(<https://alkutcollege.edu.iq/ahmed-hamza/>)



KRISHNA PRASAD
NARAPEREDDY ()
1447 W Minerloop road, South
Jordan, UT - 84095
Email: krishna021@gmail.com
🏠 Home Page
(<https://www.reckitt.com/>)

MAJID MOHAMMED
MAHMOOD ()

DR. SATHISH KUMAR
KONIDALA ()

Chat with us



majidm.mahmood93@uomustansiriyah.edu.iq

Email:

majidmahmood93@yahoo.com

🏠 Home Page

(<https://uomustansiriyah.edu.iq/e-learn/profile.php?id=687>)



Associate Professor,
Department of Pharmaceutical
Sciences, Vignan's Foundation
for Science Technology and
Research (Deemed to be
University), Vadlamudi, Guntur,
A.P., India-522213.

Email:

ksk_pharma@vignan.ac.in

🏠 Home Page

(<https://vignan.ac.in/pharmafaculty.php>)



MOHAMED JABER ()

University Road Aljurf P.O.Box
346

Email:

mohamed.jaber@ajman.ac.ae

🏠 Home Page

(www.ajman.ac.ae)



SANKARGANESH ()

3/478, Sathankuppam,
Kelambakkam-603103, TN

Email: bilisankar@gmail.com

🏠 Home Page

(<https://hindustanuniv.ac.in/assets/pdf/faculty/Food-Technology-faculty.pdf>)



DR. SWAMYNATHAN G ()

Department of Biotechnology,
College of Science and
Humanities, SRM Institute of
Science and Technology, India.

Email:

swamynathanganesan.in@gmail.com

🏠 Home Page

(<https://www.srmist.edu.in/department/department-of-biotechnology-science-and-humanities/>)



DR ANIL KUMAR TALLAM ()

1350 Woodbourne Road, Apt-
E74, Levittown, Pennsylvania,
USA, Zip Code 19057

Email:

anilkumartallam1@gmail.com

🏠 Home Page

(<https://kvktech.com/>)

BACHIR BEN SEGHIR ()

Chat with us



Department of Process
Engineering, Faculty of
Technology, University of El
Oued, BP 789, El-Oued 39000,
Algeria
Email: bbachir39@gmail.com
🏠 Home Page
(<https://profbachir.portfolial.com/#/>)



SUBRAMANIYAN
VETRISELVAN ()
Assoc. Prof. Dr. Vetriselvan
Subramaniyan, Ph.D. Deputy
Dean M.Sc. and Ph.D. (by
Research) Coordinator Faculty
of Medicine, Bioscience and
Nursing MAHSA University EC
Member-Overseas, Indian
Pharmacological Society (IPS)
Email: vetriscology@gmail.com
🏠 Home Page
(<https://mahsa.edu.my/>)



MAKSOOD ALI ()
9 B, Near RK Public School,
Aurangabad, District -
Bulandshahr
Email:
dr mali_pharmacy13@yahoo.com
🏠 Home Page
(<https://www.orleancollege.co.in/>)



DR. V. V. SATHIBABU
UDDANDRAO ()
Dr. V. V. Sathibabu Uddand Rao,
Assistant Professor,
Department of Biochemistry,
K.S. Rangasamy College of Arts
and Science (Autonomous),
Tiruchengode-637215,
Tamilnadu, India
Email: sathibabu.u@gmail.com
🏠 Home Page
(<https://www.ksrcas.edu/>)



AYAN KUMAR KAR ()
Rabindra Bhavan,
D.C.Sankarara, Nimtala, Tamruk
-721636, East Medinipur, W.B.,
India
Email: ayancipt@gmail.com



DR. MOUMITA HAZRA ()
Associate Professor,
Department of Pharmacology,
Shri Balaji Institute of Medical
Science, Raipur, Chhattisgarh,
India

Chat with us

🏠 Home Page
(www.urschard.com)

Email:
drmoumitahazra.198017thjune@gmail.com
🏠 Home Page
(drmoumitahazra170680.blogspot.com)



SHIVAM TAYAL ()
Jhansi Road, Gwalior
Email:
shivamtayal.sop@itmuniversity.ac.in
🏠 Home Page
(<https://itmuniversity.ac.in/>)



FATMA BASSYOUNI ()
National Research Centre,
Cairo, Egypt
Email: fatma.nrc.eg@gmail.com
🏠 Home Page
(<https://www.nrc.sci.eg>)



OJAS PRAKASHBHAI DOSHI ()
Somerville, New Jersey, USA
Email: doshiojas96@gmail.com
🏠 Home Page
(<https://cosettepharma.com/>)



DR. TANAJI NANDGUDE ()
Sant Tukaram Nagar, Pimpri,
Pune, Maharashtra - 411018
Email:
tanaji.nandgude@dypvp.edu.in
🏠 Home Page
(<https://pharmacy.dypvp.edu.in/>)



DR. RAJA CHAKRAVERTY ()
5/1 Suri lane Kolkata 700014.
Email:
rchakraborty20@yahoo.com
🏠 Home Page
(<https://ipgmer.gov.in/>)



DR. TEJ BAHADUR CHANDRA
()
School of Computer Science
Engineering and Technology,
Bennett University, TechZone 2,
Greater Noida - 201310, Uttar
Pradesh, India.
Email:
tejbahadur1990@gmail.com
🏠 Home Page
(<https://www.bennett.edu.in/faculties/tej-bahadur-chandra/>)

Chat with us



MAHMOUD BAHMANI ()
Biotechnology and Meicinal
Plants Research Center, Ilam
University of Medical Sciences,
Ilam, Iran
Email:
mahmood.bahmani@gmail.com
🏠 Home Page
([https://pbp.medilam.ac.ir/persons.php?
ppup=1&slc_lang=en&sid=1&prsn_id=118](https://pbp.medilam.ac.ir/persons.php?ppup=1&slc_lang=en&sid=1&prsn_id=118))



DR AMBER VYAS ()
University Institute of
Pharmacy, Pt. Ravishankar
Shukla University, Raipur (C.G.)
492010
Email: ambervyas@gmail.com
🏠 Home Page
([https://prsu.ac.in/site/facultydetails?
id=486](https://prsu.ac.in/site/facultydetails?id=486))



DR. A.PURUSHOTHAMAN ()
PERI College of Arts and
Science (Affiliated to University
of Madras) PERI Knowledge
Park, Mannivakkam Chennai-
48, Tamil Nadu, India
Email: principalarts@peri.ac.in
🏠 Home Page
(<http://peri.education/pca/index.php>)



DR ELIZABETH MARY
MATHEW ()
Plot 23211, Phase 4, Gaborone
Email: mathewe@ub.ac.bw
🏠 Home Page
(<https://www.ub.bw/connect/staff/11569>)



DR. RAKHI MISHRA ()
Noida Institute of Engineering
and Technology Pharmacy
Institute, Knowledge Park 2,,
Plot 19, Greater Noida 201306
Email:
rakhimishra.pharmacy@niet.co.in
🏠 Home Page
(<https://nietpharmacy.co.in/>)



DR J ADLIN JINO NESALIN ()
T John College of Pharmacy,
Gottigere, Bangalore.
Email: adlinjino@gmail.com
🏠 Home Page
(<https://www.tjohncollege.com/>)

Chat with us



PRABHU MANICKAM
NATARAJAN ()

Ajman University, UAE

Email: p.natarajan@ajman.ac.ae

🏠 Home Page

(<https://www.ajman.ac.ae/en/dentistry/directory/staff/prabhu-manickam-natarajan>)



DR. D. NAGASAMY
VENKATESH ()

Department of Pharmaceutics,

JSS College of Pharmacy, Ooty-

643001. The Nilgiris. Tamil

Nadu

Email:

nagasamyvenkatesh@jssuni.edu.in

🏠 Home Page

(<https://www.jssuni.edu.in/jssaher/college-of-pharmacy-ooty/departament-pharmaceutics-faculty-profile.html>)



DR. D. NAGASAMY
VENKATESH ()

JSS College of Pharmacy, Ooty-

643001. Tamil Nadu

Email:

nagasamyvenkatesh@rediffmail.com

🏠 Home Page

(<https://www.jssuni.edu.in/jssaher/college-of-pharmacy-ooty/departament-pharmaceutics-faculty-profile.html>)



DR. AR MAHESH ()

Dr. AR Mahesh, Assistant

Professor, Faculty of Pharmacy,

MS Ramaiah University of

Applied Sciences, M.S.R Nagar ,

M.S.R.I.T Post, Bengaluru-

560054

Email:

mahesh.py.ph@msruas.ac.in

🏠 Home Page

(<https://www.msruas.ac.in/people/dr-ar-mahesh>)



MD SARFARAZ ALAM ()

3. HIMT College of Pharmacy,

Plot. No: 8, Knowledge Park I,

Greater Noida, U.P - 201 310.



DR. RAMANAIAH MALLA ()

Associate Professor of

Chemistry, Department of Basic

sciences and Humanities,

Aditya Institute of Technology

Chat with us

Email:
sarfarazpharma1981@gmail.com
🏠 Home Page
(<https://hcp.ac.in/>)

and Management, Tekkali-
532201, Srikakulam, Andhra
Pradesh, India E-Mail:
ramanaiahmalla4@gmail.com
Mobile NO: +91-9704571003
Email:
ramanaiahmalla4@gmail.com
🏠 Home Page
(<https://vidwan.inflibnet.ac.in/profile/236754>,
[https://www.scopus.com/authid/detail.uri?
authorId=56632403500](https://www.scopus.com/authid/detail.uri?authorId=56632403500))



DR DHRUBO JYOTI SEN ()
School of Pharmacy, Techno
India University, Salt Lake,
Sector-V, EM-4, Kolkata-
700091, West Bengal, India.
Email:
dhrubojyoti.s@technoindiaeducation.com
🏠 Home Page
(<https://www.technoindiauniversity.ac.in/>)



PRIYADHARSHINI ARJUNAN ()
Department of Oral medicine
and radiology, Faculty of
Dentistry, AIMST University
Email: apriya.omdr@gmail.com
🏠 Home Page
(<https://aimst.edu.my/>)



DR. KAZI ASRAF ALI ()
Department of Pharmaceutical
Technology, Maulana Abul
Kalam Azad University of
Technology, NH-12, Simhat,
Haringhata, Nadia, West
Bengal-741249, India
Email: kaziasraf.ali@gmail.com
🏠 Home Page
(<https://makautwb.ac.in/>)



DR PRASHANT L. PINGALE ()
GES's Sir Dr. M. S. Gosavi
College of Pharmaceutical
Education and Research, Nashik
Email:
prashantlpingale@gmail.com
🏠 Home Page
(<https://msgpharma.org/>)

Chat with us



VEDULA GIRIJA SASTRY ()

Professor, A.U. College of
Pharmaceutical Sciences. 101,
Narasimha gardens, Plot #18, D.
No: 8-4-40/2, Prasanthi Nagar
Pedawaltair, Visakhapatnam-
530017.

Email:

vgirijasastry@yahoo.co.in

🏠 Home Page

(<https://vidwan.inflibnet.ac.in/profile/232955>)



PRASHANT PANDEY ()

2-065, Katz Group Centre,
University of Alberta 11361 -
87 Ave NW Edmonton, AB, T6G
2E1, Canada

Email: ppandey4@ualberta.ca

🏠 Home Page

(<https://www.ualberta.ca/pharmacy/index.html>)



SMRITI SHARMA ()

Amity Institute of Pharmacy,
Amity University, Noida
Email: ssharma39@amity.edu

🏠 Home Page

(<https://amity.edu/faculty-list-new.aspx?fname=ALL&Instituteld=106>)



AYMAN M. AL-QAANEH ()

Jordan

Email: alqunneh@yahoo.com

🏠 Home Page

(<https://www.bau.edu.jo/bauar/Colleges/Nursing/Home.aspx>)



MUAAZ ALAJLANI ()

altal, Damascus 011 Syria

Email:

muaaz.alajlani.foph@aspu.edu.sy

🏠 Home Page

([https://www.aspu.edu.sy/site/english/index.php?](https://www.aspu.edu.sy/site/english/index.php?node=5858&cat=90416&wid=2142&First=0&Last=160&CurrentPage=0&day=&month=&lang=2&nt=&Type=&Part=&NType=&NArchive=&src=search&Keywords=Sit)

[node=5858&cat=90416&wid=2142&First=0&Last=160&CurrentPage=0&day=&month=&lang=2&nt=&Type=&Part=&NType=&NArchive=&src=search&Keywords=Sit](https://www.aspu.edu.sy/site/english/index.php?node=5858&cat=90416&wid=2142&First=0&Last=160&CurrentPage=0&day=&month=&lang=2&nt=&Type=&Part=&NType=&NArchive=&src=search&Keywords=Sit)



DR. R.P. PRAVEEN POLE ()

Assistant Professor

Department of Zoology

Nesamony Memorial Christian

College Marthandam-629165,

India.

Email: praveenpole83@gmail.com

🏠 Home Page

(<https://www.nmcc.ac.in/Default.aspx>)

Chat with us



DR. A.DOSS ()
Palayamkottai main road
Thoothukudi, TamilNadu, India
Email: androdoss@gmail.com
🏠 Home Page (V. O.
Chidambaram College)



SAROJA KUMAR PATRO ()
Associate Professor & Head,
Department of Pharmaceutical
Analysis Institute of Pharmacy
& Technology, Salipur, Cuttack,
Odisha
Email: skpatro69@gmail.com
🏠 Home Page
(<https://www.iptsalipur.org>)



DR N RAGHAVENDRA NAVEEN
()
Sri Adichunchanagiri College of
Pharmacy, Adichunchanagiri
University, Mandya, Karnataka
Email: nrn@accp.co.in
🏠 Home Page
(https://scholar.google.com/citations?user=T_CIO-IAAAAJ&hl=en&authuser=1)



KOUSHIK YETUKURI ()
H.No: 3-52/A, Chinakakani
Post, Mangalagiri (MD), Guntur
(DT), 522503, Andhra Pradesh,
India.
Email:
yetukurikoushik@gmail.com
🏠 Home Page
(<https://orcid.org/my-orcid?orcid=0000-0003-2530-584X>)



DR. GUNJEGAONKAR
SHIVSHAKAR M. ()
ASPM's K. T. Patil College of
Pharmacy Osmanabad:413501
Maharashtra, India.
Email: gunjeshiv@gmail.com
🏠 Home Page
(<https://www.ktpatilpharmacy.org/>)



DR KUNTAL DAS ()
Department of Pharmacognosy
and Phytochemistry Mallige
College of Pharmacy #71,
Silvepura, Chikkabanavara Post,
Bangalore-90. INDIA.
Email: drkuntal@mcp.ac.in
🏠 Home Page
(<https://www.mallige.ac.in/>)

Chat with us



DR. M.R. JAYAPAL ()
SENIOR SCIENTIST
DEPARTMENT OF
CHEMISTRY AND MATERIAL
SCIENCE ENGINEERING
YITS, CHINA
Email:
mrjayapal007@gmail.com
🏠 Home Page
(<https://www.iomcworld.org/editor/mrjayapal-16406>)



DR. DEBARSHI KAR
MAHAPATRA ()
Associate Professor, Chitkara
College of Pharmacy, Chitkara
University, Rajpura 140401,
Punjab, India
Email: dkmbps@gmail.com
🏠 Home Page ()



DR. ASHOK A. HAJARE ()
Dr. Ashok A. Hajare Principal &
Professor Bharati Vidyapeeth
College of Pharmacy Palus, Dist.
Sangli (M.S.), India 416310
Email:
ashok.hajare@bharatividyaapeeth.edu
🏠 Home Page ()



DR. RUPESH K. GAUTAM ()
Professor, Centre for
Pharmacology Amity Institute
of Pharmacy Amity University
Uttar Pradesh Noida-201303,
India
Email:
drrupeshgautam@gmail.com
🏠 Home Page ()



BEHZAD FOROUTAN ()
Department of Pharmacology
School of Medicine Shahroud
University of Medical Sciences
Shahroud, IRAN
Email:
behzad_foroutan@hotmail.com
🏠 Home Page ()



DR. AMIT ROY ()
Principal, Columbia Institute of
Pharmacy, Raipur CG India
Email: wakratund@gmail.com
🏠 Home Page ()

Chat with us



P. PARTHIBAN ()
Centre for R&D, PRIST
University, Thanjavur-613403,
India
Email: parthisivam@yahoo.co.in
[Home Page \(\)](#)



PROF. D. K. TRIPATHI ()
Principal, Rungta Institute of
Pharmaceutical Sci. and
Research, Bhilai CG India
Email: editor.rjpt@gmail.com
[Home Page \(\)](#)



DR. P. KUMARAVEL ()
Assistant Professor,
Department of Biotechnology,
Vysya College,
Masinaickenpatty, Salem-
636103. Tamil Nadu, India.
Email:
kumaravelbiotech@gmail.com
[Home Page \(\)](#)



DR GIRISH PAI K ()
Faculty - Dept of Pharmaceutics
Manipal college of
pharmaceutical sciences
Manipal University, Madhav
Nagar Manipal - 576104,
Karnataka State, India
Email: girish.pai@manipal.edu
[Home Page \(\)](#)



DR. AJAY V. PATHAK ()
House No.33 Ravindra nagar
Nagpur-440022 Maharashtra,
INDIA
Email: a.pathak4@gmail.com
[Home Page \(\)](#)



AYUSH DOGRA ()
department of electronics and
communications, panjab
university chandigarh
Email:
ayush123456789@gmail.com
[Home Page \(\)](#)



DR. PRATIBHA VYAS ()
Department of Microbiology,
College of Basic Sciences and
Humanities, Punjab Agricultural



IHSAN HABIB DAKHIL ()
Engineering College, Al-
Muthanna University, Iraq

[Chat with us](#)

University, Ludhiana-141004,
Punjab, India.
Email:
pratibha.19064@lpu.co.in
🏠 Home Page ()

Email:
ihsanelshahiri@yahoo.com
🏠 Home Page ()



DR.JAYASSHREE SEN ()
J.N.M.C.&A.V.B.R.H.,Sawangi,Wardha,Maha
442007
Email:
jayashree_sen@rediffmail.com
🏠 Home Page ()



IMAD ()
University of Babylon
Email: imad_dna@yahoo.com
🏠 Home Page ()



RIM M. HARFOUCH ()
Al Andalus university, Qadmus,
Tartous, Syria
Email: rimharfouch@au.edu.sy
🏠 Home Page ()



MOHAMMAD JAWAD AL-
JASSANI ()
Department of Microbiology,
College of Science, Al-Karkh
University of Science, Iraq.
Email: pcr2000@yahoo.com
🏠 Home Page ()

REVIEWERS



DR. SUBHASHIS DEBNATH ()
Seven Hills College of Pharmacy
Venkatramapuram, Tirupati-
517561
Email:
subhashis.ooty@gmail.com
🏠 Home Page ()



GAURAV KUMAR ()
Department of Microbiology
School of Bioengineering and
Biosciences Lovely Professional
University Phagwara, 144411,
Punjab, India
Email: gau_ravkr@yahoo.com

Chat with us

[🏠 Home Page \(\)](#)



RUCHI VERMA ()
manipal college of
pharmaceutical sciences,
manipal university, karnataka,
India.

Email:
ruchi.verma@manipal.edu

[🏠 Home Page \(\)](#)



DR. KETAN VINODLAL SHAH ()
201, Rudrax Appartment,
Guruprasad Society, Nehind
Telephone exchange,
Krishnanagar Main road, Rajkot

Email:
ketan421981@gmail.com

[🏠 Home Page \(\)](#)



K SUJANA ()
university college of
pharmaceutical sciences
Acharya Nagarjuna university
Email: sujana_36@yahoo.co.in

[🏠 Home Page \(\)](#)



DR.P.BRINDHA DEVI ()
Vels University, Velan Nagar, PV
Vaithiyalingam Road,
Pallavaram

Email: pbrindhadevi@gmail.com

[🏠 Home Page \(\)](#)



**DR VAMSHI KRISHNA
TIPPAVAJHALA ()**
Assistant Professor-Senior
Scale Department of
Pharmaceutics Manipal College
of Pharmaceutical Sciences
Manipal University Manipal,
Karnataka, India

Email: krissrcm@gmail.com

[🏠 Home Page \(\)](#)



ZAIN BAAITY ()
Syria, Latakia
Email: zein_syria@hotmail.com

[🏠 Home Page \(\)](#)

[Chat with us](#)



LAITH AHMED NAJAM ()
Mosul University, College of
Science, Physics Dept., Mosul
Email: Prof.lai2014@gmail.com
[Home Page \(\)](#)



VEEREN DEWOOLKAR ()
4824 Washtenaw Ave, Apt C1,
Ann Arbor, MI 48108
Email: veerenrx@gmail.com
[Home Page \(\)](#)



NEERAN OBIED JASIM ()
University of AL-Qadisiyah
college of Pharmacy Iraq
Email: neran.jasim@qu.edu.iq
[Home Page \(\)](#)



MAHMOUD NAJIM ABID ()
Mustansiriyah University,
College of Science, Department
of Chemistry
Email:
mahmoudaljibouri@gmail.com
[Home Page \(\)](#)



NILESH PATEL ()
B/103, Snehkunj
Elegance, Behind Shivalay
Parisar Kudasan, Gandhinagar-
382421, Gujarat
Email:
nilesh33.emcure@gmail.com
[Home Page \(\)](#)



NEERAN OBIED JASIM ()
university of AL-Qadisiyah -
college of science-Iraq
Email: neran.jasim@qu.edu.iq
[Home Page \(\)](#)



MARWAN MAHMOOD SALEH
()
Anbar-Ramadi- Habbaniya- 4-
4-17
Email:
ah.marwan_bio@uoanbar.edu.iq
[Home Page \(\)](#)



PALLAVI LAXMAN PHALKE ()
Parul University, Limda,
Waghodiya. Vadodara-391760,
Gujarat India.
Email: falkepallavi@gmail.com
[Home Page \(\)](#)

[Chat with us](#)



DR. ANUP S. HENDRE ()
Biochemistry Department
Krishna Institute of Medical
Sciences, Malkapur Karad. Dist-
Satara.
Email: anupviews@gmail.com
[🏠 Home Page \(\)](#)



SURENDRA KUMAR GAUTAM
()
Kamla Nehru Institue of
Management & Technology,
NH96 Faizabad Bypass Road
Faridipur Campus
Email:
surendra_bkt95@yahoo.in
[🏠 Home Page \(\)](#)



DR U R RAKSHITH ()
Dr U R Rakshith Lecturer JSS
College of Pharmacy, JSS
Academy of Higher Education
and Research
Shivarathreeswara Nagar,
Mysuru-570015 Karnataka ,
India
Email: urrakshith@jssuni.edu.in
[🏠 Home Page \(\)](#)



RAMU SAMINENI ()
H.NO-1-123-A; C/O
SIVARAMAKRISHNA
SAMINENI MANDEPUDI,
AMARAVATHI
Email:
samineni.ramu@gmail.com
[🏠 Home Page \(\)](#)



DHAVAL PATEL ()
A-104, Maruti Aamrakunj,
Sargasan, Gandhinagar-382421
Email: dhaval.nine@gmail.com
[🏠 Home Page \(\)](#)



AKHIL NAGAR ()
R C PATEL INSTITUTE OF
PHARMACEUTICAL
EDUCATION AND RESEARCH
Email:
akkipharma23@gmail.com
[🏠 Home Page \(\)](#)

Chat with us



SUNANDAR IHSAN ()
Kampus Hijau Bumi Tridharma
Universitas Halu Oleo Fakultas
Farmasi, Jl. H.E.A Mokodompit
Anduonuhu, Kendari, Indonesia
Email: sunandarihsan@uho.ac.id
[🏠 Home Page \(\)](#)



ANAS TARIK NAFEI ()
Baghdad, Qadissiyah Express
way
Email:
anasalhamdany@yahoo.com
[🏠 Home Page \(\)](#)



DR.KUMARASWAMY
GULLAPELLI ()
STREET NUMBER 4 , BHAVANI
NAGAR , NACHARAM,
HYDERABAD NACHARAM,
Hyderabad, Telangana, pincode:
500076
Email:
kumargullapelli001@gmail.com
[🏠 Home Page \(\)](#)



RADHWAN AL-ZIDAN ()
Almothana district, Mosul, Iraq
Email:
radhwan.alzidan@uomosul.edu.iq
[🏠 Home Page \(\)](#)



YAHIA M. MOUALLA ()
faculty of pharmacy, Tishreen
university, Latakia, Syria
Email:
yahia.moualla@tishreen.edu.sy
[🏠 Home Page \(\)](#)



SUHAS SURESH AWATI ()
Assistant Professor, Dr.
Shivajirao Kadam College of
Pharmacy, Kasabe Digraj,
Baganvat, Tal- Miraj, Dist-
Sangli, Maharashtra. 416301
Email: awatiss@gmail.com
[🏠 Home Page \(\)](#)

SHAIK FIROZ ()

DR NASEEF PP ()

[Chat with us](#)



Assistant Professor,
Department of Pharmaceutics,
Sree Vidyanikethan College of
Pharmacy, Sree Sainath Nagar,
A.Rangampet-517102.
Email: firoz.kallur@gmail.com
[🏠 Home Page \(\)](#)



Vice Principal, Moulana College
of Pharmacy, Near
Angadippuram Railway Station,
Malappuram, Kerala, India
679321
Email: drnaseefpp@gmail.com
[🏠 Home Page \(\)](#)



DR. ARINDAM CHATTERJEE ()
School of Pharmaceutical
Sciences Jaipur National
University (SADTM Campus)
Near RTO Office, Jaipur Agra
Bypass Jagatpura, Jaipur, Rajasthan
India-302017
Email:
chatterjee.arindam@hotmail.com
[🏠 Home Page \(\)](#)



S RAJARAJAN ()
Department of Pharmaceutics,
Karnataka College of Pharmacy
33/2, Thirumena Halli, Hegde
Nagar Main Road, Bangalore-
560064
Email: pharmking@gmail.com
[🏠 Home Page \(\)](#)



DR . RAHUL RADHAKRISHNAN
()
Manasam, Edavattom,
Chirakkara (PO) ,Kollam, Kerala
Email:
drrahulpharmd@gmail.com
[🏠 Home Page \(\)](#)



RIM M. HARFOUCH ()
0624 Albaath street, Latakia,
Syria
Email: rimharf@yahoo.com
[🏠 Home Page \(\)](#)



ARUN A ()
3/31 periyar street, ramapuram
chennai 600089
Email:
arunarticle2016@gmail.com
[🏠 Home Page \(\)](#)



ABDUL SALEEM MOHAMMAD
()
Department of Pharmaceutical
Analysis and Quality Assurance,
Nizam Institute of Pharmacy,
Deshmukhi (V), Pochampally

[Chat with us](#)

(M), Behind Mount Opera,
Nalgonda (Dist)-508284,
Telangana, India.
Email:
mohdsaleempharma@gmail.com
[🏠 Home Page \(\)](#)



KARTHIKEYAN T ()
registrar nimhans
Email:
karthik_77in@yahoo.co.in
[🏠 Home Page \(\)](#)



DR. PUTTA RAJESH KUMAR ()
Amdapur X Road, Yenkapally,
Moinabad, Ranga Reddy,
Hyderabad, Telangana 500075
INDIA
Email: prkbpc@gmail.com
[🏠 Home Page \(\)](#)



AAMINAH NAJMUS SAHAR ()
H.no: 121,Pension lane, New
Bowenpally Secunderabad-
500011
Email:
aaminahnajmus@yahoo.in
[🏠 Home Page \(\)](#)



ZAINAB HAITHAM FATHI ()
College of Pharmacy, University
of Mosul
Email: zainabh@uomosul.edu.iq
[🏠 Home Page \(\)](#)



DR. OM PRAKASH RANJAN ()
Faculty of Pharmacy,
Sachchidanad Sinha College,
Aurangabad, Bihar.
Email:
omprakasranjan@gmail.com
[🏠 Home Page \(\)](#)



SHASHIKANT SUDARSHAN
UPADHYE ()
Annasaheb Dange College of
B.Pharmacy, Ashta Tal: Walwa,
Dist: Sangli 416301 ,
Maharashtra, India
Email: ssupadhye7@gmail.com
[🏠 Home Page \(\)](#)

[Chat with us](#)



VISHAL KUMAR BISWKARMA
()

KSCP, Subharti University,
Meerut, Uttar Pradesh, India

Email:

vishalkumarbiswarkarma@gmail.com

[🏠 Home Page \(\)](#)



DR. C. JANANI ()

Dr. C. Janani, Srimad Andavan
Arts and Science College,
Nelson Road, TV Kovil, Trichy-
05

Email: janabio.net@gmail.com

[🏠 Home Page \(\)](#)



RANJAN KUMAR SINGH ()

g d memorial college of
pharmacy, kbhb,
jodhpur.342005

Email: rxsingh8@gmail.com

[🏠 Home Page \(\)](#)



BIMESH KUMAR ()

BLOCK 4, ROOM NO 203,
SCHOOL OF
PHARMACEUTICAL
SCIENCES, LOVELY
PROFESSIONAL UNIVERSITY,
PHAGWARA, PUNJAB,
144411.

Email:

bimlesh1pham@gmail.com

[🏠 Home Page \(\)](#)



DR. BISWARANJAN RAY ()

Associate prof, Dept. of
Pharmacology, College of
Pharmaceutical Sciences,
Puri, Odisha

Email: crabiswa@gmail.com

[🏠 Home Page \(\)](#)



ANAR J PATEL ()

Sal Institute of Pharmacy,
Ahmedabad

Email: anar.patel@sal.edu.in

[🏠 Home Page \(\)](#)

[Chat with us](#)



GANESH BARKADE ()
Dr. Vithalrao Vikhe Patil
Foundation's College of
Pharmacy, Ahmednagar, MH,
India-414111 Vikhe Patil
Foundation
Email:
ganeshbarkade7@gmail.com
[🏠 Home Page \(\)](#)



DR. VEDAMURTHY JOSHI ()
Associate professor, Sri
Adichunchanagiri College of
Pharmacy, BG Nagara
Nagamangala Tq Mandya dist
Karnata
Email:
vedamurthyjoshi@gmail.com
[🏠 Home Page \(\)](#)



**AVINASH BABURAO THALKARI
()**
Kanadi Road Kaij Vasant
Pharmacy College Kaij Kanadi
Road Kaij
Email:
avinashthalkari@gmail.com
[🏠 Home Page \(\)](#)



DR. P. PRAVEEN REDDY ()
Vivekananda Degree and PG
College, Karimnagar-505001,
Telangana
Email: microppr@gmail.com
[🏠 Home Page \(\)](#)



MUTHUKUMAR.S ()
45,U.K.Thevar Street, Sular,
Coimbatore-641402
Email: pharmmuthu@gmail.com
[🏠 Home Page \(\)](#)



D CHANDRA SEKHAR NAIK ()
KVSR Siddhartha college of
pharmaceutical sciences poly
clinical road Vijayawada-10
Email:
chandu.desavath@gmail.com
[🏠 Home Page \(\)](#)

BHARAT MISHRA ()

MATOLE VINOD KALIDAS ()

[Chat with us](#)



Nirmala college of pharmacy,
Nirmala Hills,Muvattupuzha,
Ernakulam, Kerala, India
Email:
bharatekansh@gmail.com
[Home Page \(\)](#)



AT POST AURAD
TAL.OMERGA DIST
.OSMANABAD
Email:
vinodmatole57@gmail.com
[Home Page \(\)](#)



NIRMAL THAKKER ()
B-602, Tirupati Aakruti Greenz,
Behind Nirma University, S.G.
Highway, Ahmedabad-382481,
Gujarat, India
Email:
nirmalthakker117@yahoo.com
[Home Page \(\)](#)



JASWANTH GOWDA B.H. ()
Yenepoya (Deemed to be
University), Deralakatte,
Mangalore, India-575018.
Email:
jaswanth_14601@yenepoya.edu.in
[Home Page \(\)](#)



ZEINA ABDULMUNIM
ALTHANOON ()
Albaladiyat Quarter Mosul Iraq
Email:
ph.zeinaalthanoon@gamil.com
[Home Page \(\)](#)



SHIVAVEERAKUMAR ()
Department of Microbiology,
Davangere University,
Davanagere - 577002,
Karnataka
Email:
shiv_math1984@rediffmail.com
[Home Page \(\)](#)



DR.V.K.EVANJELENE ()
16, Anbu Nagar, gorimedu,
Salem - 636 008
Email: evankutty@gmail.com
[Home Page \(\)](#)



ASHISH TALE ()
MUPS College of Pharmacy,
Degaon, Tq. Risod, Dist.
Washim-444506 (M.S) India
Email: ashishtale93@gmail.com
[Home Page \(\)](#)

[Chat with us](#)



DR. C. JANANI ()
Srimad Andavan Arts and
Science College, Nelson Road,
TV Kovil TV kovil
Email: janabio.net@gmail.com
[🏠 Home Page \(\)](#)



PRATHEEP THANGARAJ ()
Department of Biotechnology,
PRIST Deemed to be University,
Thanjavur-613403, India.
Email: pratheetp@gmail.com
[🏠 Home Page \(\)](#)



SHAIMAA AHMAD HASSAN ()
AlKarkh University of science /
Baghdad / Iraq
Email:
dr.shaimaa_altaee@kus.edu.iq
[🏠 Home Page \(\)](#)



DR ANUP NAHA ()
Manipal College of
Pharmaceutical Sciences,
MAHE, Manipal, Karnataka-
576104
Email: anupnaha@gmail.com
[🏠 Home Page \(\)](#)



EIMAN SHAHROUR ()
lattakia- syria
Email:
eimanm.shahrour@gmail.com
[🏠 Home Page \(\)](#)



DR. DEVAKUMAR DINESH ()
Department of Zoology,
Bharathiar University
Coimbatore-641046 Tamilnadu
India
Email:
devadinesh4041@gmail.com
[🏠 Home Page \(\)](#)



AUDUMBAR DIGAMBAR MALI
()



DR. MITTAL MAHESHWARI ()
A- One Pharmacy College,
Ahmedabad

[Chat with us](#)

At. Po. Andhalgaon, Tal-
mangalwedha, Dist- Solapur, Pin
Code:- 413305, Maharashtra,
India.
Email: maliaudu442@gmail.com
🏠 Home Page ()

Email:
mittalmaheshwary@gmail.com
🏠 Home Page ()



ABDUL AZEEM ()
Research Scholar, Electrical
Engineering Department Jamia
Millia Islamia-New Delhi
Email: azeemnith@gmail.com
🏠 Home Page ()



DR. V. VADIVEL ()
PG & Research Department of
Botany, V.O. Chidambaram
College, Tuticorin - 628008
Tamil Nadu, India
Email: drvvadivel@gmail.com
🏠 Home Page ()



PROF.(DR.)
KUMARASWAMY.GANDLA ()
Dr.Kumara Swamy.Gandla
Associate Editor of RJPT
(Research journal of Pharmacy
and Technology Chaitanya
Deemed to be University,
Hanamkonda, Warangal-Urban
(Dist), Telangana 506001-India.
Mobile: +91-9000973789 /
+91-7801022789
Email:
drkumaraswamygandla@gmail.com
🏠 Home Page ()



MR. PATIL AMOL MANIK ()
AT/P- KASEGAON TAL-
WALWA DIST- SANGLI PIN
CODE- 415404
MAHARASHTRA
Email: amp6389@gmail.com
🏠 Home Page ()

MOH MIRZA NURYADY ()

SHAIMAA AHMAD HASSAN ()

Chat with us



Blok HC No. 14, Jl. Intan 2,
Perum GPA, Ngijo, Kec.
Karangploso, Kabupaten
Malang, East Java
Email:
mirzanuryady@umm.ac.id
[Home Page \(\)](#)



College of Remote Sensing &
Geophysics, Al Karkh University
of Science, Baghdad, Iraq
Email:
dr.shaimaa_altaee@kus.edu.iq
[Home Page \(\)](#)



MAUSAMI VAGHELA ()
New College Wadi-3, B/H
Punjab Honda, Opp. sitvan Flat,
Kalawad Road, Rajkot.
Email:
mausami_2123@yahoo.com
[Home Page \(\)](#)



KOTESHWARA MUDIGONDA ()
Suven Life Sciences Limited,
Hyderabad, India
Email:
koteshwara_mudigonda@yahoo.com
[Home Page \(\)](#)



DR. SWAMY C T ()
51, Anna Arch Rd,NSK Nagar,
Anna Nagar, AA Hospital
Campus
Email: swamyct23@gmail.com
[Home Page \(\)](#)



KHUDHAIR ABBAS KAREEM
AL-RUDAI ()
Iraq, Baghdad
Email:
khudhair.2010@yahoo.com
[Home Page \(\)](#)



BALJEET YADAV ()
1202 H, Coralwood Sector 84,
Gurugram INDIA
Email: baljeet.yadav@gdgu.org
[Home Page \(\)](#)



DR NILIMA ABHIJEET
THOMBRE ()
MET's Institute Of Pharmacy,
Bhujbal Knowledge City,
Adgaon, Nasik-422003,
Maharashtra,India.
nilimat_iop@bkc.met.edu
09422284082, 09960646693
Email: nilimat_iop@bkc.met.edu
[Home Page \(\)](#)

[Chat with us](#)



SNIGDHO DAS ()
Flat No.6,Ira Appartments-
2,Jadunath Ukil Road, Kudghat
Email: snigdho1991@gmail.com
🏠 Home Page ()



DR SUDARSAN BISWAL ()
O/o the Asst. Drugs Controller,
Bhubaneswar Cirle II,
Bhubaneswar, Khordha, Odisha,
India
Email: drsbiswaldi@gmail.com
🏠 Home Page ()



NAZIYA IQBAL KHAN ()
38 Sahyadri nagar Isbavi
Pandharpur 413307 Solapur
Maharashtra
Email: naziya.aara@gmail.com
🏠 Home Page
(<https://sahyadripharmacy.org/wp-content/uploads/2021/08/teaching-staff-converted.pdf>)



DR GYANENDRA KUMAR
SHARMA ()
Anand College of Pharmacy,
Agra
Email:
gyanendrasharma.acp@sgei.org
🏠 Home Page
(<https://acp.edu.in/teacher/prof-dr-gyanendra-kumar-sharma/>)



MISS.MALI SUNAYANA
MALLAPPA ()
A/P-Andhalgaon, Pin No. -413
305 Tal- Mangalwedha, Dist-
Solapur, Maharashtra, India
Email:
sunayanamali01@gmail.com
🏠 Home Page
(sunayanamali01@gmail.com)



DR. ARUNACHALAM
MUTHURAMAN ()
Dr. Arunachalam Muthuraman,
M. Pharm., Ph.D. Associate
Professor, Pharmacology Unit,
Faculty of Pharmacy, AIMST
University, Semeling, 08100
Bedong, Kedah Darul Aman,
Malaysia. E-mail:
arunachalammu@gmail.com
Phone No: +60-1136293386
(Malaysia); +91-9988040886
(India) Malaysia Office: +60-
44298000 (Extn: 1281 / 1284);

Chat with us

Email:
arunachalammu@gmail.com
🏠 Home Page
(https://www.aimst.edu.my/staff_/dr-arunachalam-muthuraman-2/)



MUKUL SHARMA ()
Faculty of Pharmacy, Medi-
Caps University, Indore
Email:
mukul.sharma@medicaps.ac.in
🏠 Home Page
(<https://www.medicaps.ac.in/index.php?action=sf-staffdetails&staffid=1228>)



PROF. DR. NAGHAM
MAHMOOD ALJAM ()
Professor , Department of
Chemistry , Synthetic Field,
Iraq.
Email:
dr.nagham_mj@yahoo.com
🏠 Home Page
(https://scholar.google.com/citations?user=0wqLJt8AAAAJ&hl=ar&gmla=AJsN-F5GvOOKKyaAsEKcwgNKZCgs8Q95yiQZLQSWLS0iEE5AtfDpE_LPbiC790EmRTK5DMcQdmVvSD-LcE1L5ws605G92_DOcdFrRGY6-00AQZc-irTZoCkvxK5m_3U1LDawTxfjKEJCl5SgviEuax2cWd414ttnqmt493TuZe2IldUgNaFOk&sciund=80345523792F6AvIWRrBUMr5xB-N2NQLVhVVMH2UYNPUPUwo6XitdvodTgP2H-NfP061db5-BOPRPrupq3unxysAvMnAX_DBbYNUfhH5AwSObsyOKdwUC9IDkFjaW89CJtnjL95BplpOPxJoTWsXyxLJ6i&sg24I&sciund=4058147899730636809)



PRASHANT PANDEY ()
Department of Pharmaceutical
Sciences, Babasaheb Bhimrao
Ambedkar University, Lucknow
Email:
mrpandeyprashant@gmail.com
🏠 Home Page
(<https://www.bbau.ac.in/>)



PATHAN HUJEB AFSAR KHAN
()
Shreeyash Institute of
Pharmaceutical Education and
Research Aurangabad,
Maharashtra, India.
Email: pathanhujeb@gmail.com
🏠 Home Page
(<https://www.syppharmacy.org/>)

Chat with us



DR. SHIKHA MAHESHWARI ()
Pushpanjali Enclave Pitampura
Delhi
Email:
shikhamaheshwarimohta@gmail.com
🏠 Home Page
(<https://staff.cuchd.in/StaffHome.aspx>)



DR V N MEENA DEVI ()
Noorul Islam Centre for Higher
Education Kumaracoil,
Kanyakumari Dist. Tamilnadu
629180 India.
Email: meenadevi@niuniv.com
🏠 Home Page
(<http://www.niuniv.com/>)



PRASHANT PANDEY ()
Department of Pharmaceutical
Sciences, Babasaheb Bhimrao
Ambedkar University (A Central
University), Lucknow, Uttar
Pradesh, India
Email:
drpandeyprashant@outlook.com
🏠 Home Page
(<https://www.bbau.ac.in/index.aspx>)



MR. TUSHAR PRADIP DUKRE ()
At- Malwadi; Post- Bota.
Email: tusharpd23@gmail.com
🏠 Home Page
(www.shrissiop.in)



DR. DATTATRAYA MANOHAR
SHINKA ()
Rajiv Nagar Nashik Vaibhav
Colony
Email: dattashinkar@gmail.com
🏠 Home Page
(<https://msgpharma.org/>)



PROF. SACHIN NAMDEO
KOTHAWADE ()
Sitabai Thite College of
Pharmacy, Pune-Nagar Bypass,
Behind Hudco Colony, Shirur,
Tal - Shirur, Dist - Pune, Pin -
412210
Email:
sachin.kothawade23@gmail.com
🏠 Home Page
(<https://stcopshirur.com/faculties/>)

Chat with us



DR.SIVARAMAN
DHANASEKARAN ()

Pandit Deendayal Energy
University,

Gandhinagar,Gujarat

Email:

sivaramand83@gmail.com

🏠 Home Page

(<https://pdp.ac.in/>)



ALI MAHMOOD RAYSHAN ()

Iraq, Karbala, City Center

Email:

alireshan@g.alzahu.edu.iq

🏠 Home Page

(<https://alzahu.edu.iq/en>)



DUKRE TUSHAR PRADIP ()

At- Satral, Post- Songaon, Tal-
Rahuri, District-Ahmednagar,
413711

Email: tusharpd23@gmail.com

🏠 Home Page

(www.shrissiop.in)



DR. SK. ARIFA BEGUM ()

Dr. Sk. Arifa Begum, Assistant
Professor, KVSr Siddhartha
College of Pharmaceutical
Sciences, Siddhartha Nagar,
Vijayawada - 520 010, Andhra
Pradesh, India.

Email:

arifashaik2007@gmail.com

🏠 Home Page

(<https://kvsrsiddharthapharma.edu.in/>)



RUPALI NIRMAL ()

Sahajanandnagar

Email:

rupalinirmalcpn@gmail.com

🏠 Home Page

(<https://sanjivanipharm.org.in/>)



RISHU YADAV ()

352/1 n.l.c. Kidwai Nagar

Kanpur

Email:

rishu.yadav789@gmail.com

🏠 Home Page

(<https://mau.ac.in/school-of-pharmacy.php>)

Chat with us



DR. YASMIN HAMID MOMIN ()
Annasaheb Dange College of
B.Pharmacy, Ashta 416301
Email: mullays413@gmail.com
🏠 Home Page
(<https://www.adcbp.in/b-pharm-staff>)



PRAVEEN KUMAR UPPALA ()
LIG 163, Alakananda Colony,
Vizianagaram, Andhra Pradesh
Email:
praveen.chintu32@gmail.com
🏠 Home Page
(<http://www.ipc.gov.in/>)



DR. EKA INDRA SETYAWAN ()
Department of Pharmacy
Udayana University
Email:
ekaindrasetyawan@unud.ac.id
🏠 Home Page
(<https://farmasi.unud.ac.id/>)



DR. MOHAN GANDHI BONTHU
()
V. V. Institute of Pharmaceutical
Sciences, Gudlavalleru, Krishna
District 521356.
Email:
bmgandhipharma@gmail.com
🏠 Home Page
(<https://vvipsgudlavalleru.ac.in/>)



SWATI GOKUL TALELE ()
Sandip Institute of
Pharmaceutical
Sciences, Nashik
Email:
swatitale77@gmail.com
🏠 Home Page
(<https://sips.sandipfoundation.org/faculties/>)



NARESH KSHIRASAGAR ()
35-4-341 Near SR digi school
bheemaram Hanamkonda
Email: nareshvcop@gmail.com
🏠 Home Page
(<http://www.vaagdeviips.org/pharmaceutics/>)

DR. PRAVIN KUMAR SHARMA
()

HANA BAJES ()
NJ-USA
Email: bajes80@gmail.com

Chat with us



Acropolis Institute of
Pharmaceutical Education and
Research, Indore (M.P.)

Email:
praveensharma910@gmail.com

🏠 Home Page
([https://aipr.ac.in/bottom-
sidebar/it/it-faculty-member/](https://aipr.ac.in/bottom-sidebar/it/it-faculty-member/))



🏠 Home Page
(<https://www.atlantic.edu/directory/faculty/bajeshana.php>)



DR. J. SIVAKUMAR ()
Assistant Professor, PG
Department of Zoology, Guru
Nanak College (Autonomous),
Velachery, Chennai - 600 042,
Tamil Nadu, India

Email:
sivakumar.j@gurunanakcollege.edu.in
🏠 Home Page
([https://gurunanakcollege.edu.in/school-
of-science](https://gurunanakcollege.edu.in/school-of-science))



DR.V.N.INDULATHA ()
8/50RC Nagar extension,
Othakkalmandapam,
Coimbatore, Tamilnadu, India

Email:
profindulatha@gmail.com
🏠 Home Page
(<https://nchs.nirmalacollege.edu.in>)



RISHIKESH BACHHAV ()
Anjaneri, Trymbakeshwar
Email:

bachhavrss@rediffmail.com
🏠 Home Page
(<https://www.sapkalpharmacy.org>)



DR. M.S. ARUN ()
Faculty of Pharmacy, JKKN
College of Pharmacy,
Kumarapalayam, Namakkal
-638183.

Email: arun.ms@jkkn.ac.in
🏠 Home Page
(www.pharmacy.jkkn.ac.in)

DEEPANJAN DATTA ()

DR. L.
NANDHKAUMAR.,M.PHARM.,P
()

Chat with us



Department of Pharmacy Lloyd
Institute of Management &
Technology (Pharm.) Plot No.11,
Knowledge Park 2 Greater
Noida, U.P. 201306
Email:
deepanjan.datta@lloydpharmacy.edu.in
🏠 Home Page
(<https://lloydpharmacy.edu.in/>)



521, Perur Main Rd, Telungu
Palayam Pirivu, Priya Nagar,
Selvapuram South, Coimbatore,
Tamil Nadu 641008
Email:
drndkumar12@gmail.com
🏠 Home Page
(<https://www.ccp.ac.in/>)



ATUL SHIVAJI GURAV ()
Vidyanagar, Karad, Satara, MS,
India
Email:
atulgurav800@gmail.com
🏠 Home Page
(<http://dcpmasur.com/>)



DR. SABER ABBASZADEH ()
Department of Biochemistry
and genetics, Lorestan
University of Medical Sciences,
Khorramabad, Iran
Email:
drsaberabbaszadeh20@gmail.com
🏠 Home Page
(<https://www.scopus.com/authid/detail.uri?authorId=57194335679>)



NIKHIL RAJNANI ()
Plot No. 23, Jote Joy Building,
Rambhau Salgaonkar Rd, Cuffe
Parade, Mumbai, Maharashtra
400005
Email: np.rajnani@kmkcp.edu.in
🏠 Home Page
(<https://kmkcp.edu.in/staff/>)



DR.R.SRIMALATHI ()
Department of Pharmaceutical
Chemistry SRM College of
Pharmacy SRMIST
Email:
srimalathi.radhakrishnan88@gmail.com
🏠 Home Page
(<https://www.srmist.edu.in/faculty/mrs-r-srimalathi/>)

DR RAM BABU TRIPATHI ()

MUFADDAL H KATHAWALA ()

Chat with us



Amity Institute of Pharmacy
(AIP), Amity University, Madhya
Pradesh, Gwalior - 4745007,
INDIA

Email:
rbtripathi@gwa.amity.edu
🏠 Home Page
(<https://www.amity.edu/faculty-detail.aspx?facultyID=4519>)



182-30, Tudor Road, Jamaica.
Email:
mkathawala110@gmail.com
🏠 Home Page
(<https://www.stjohns.edu/>)



SAGAR THAKRE ()
Kamla Nehru College of
Pharmacy, Butibori, Nagpur, Maharashtra
Butibori, tah. dist. Nagpur

Email:
thakresagar1985@gmail.com
🏠 Home Page
(www.kncop.org.in)



VAIBHAV PATEL ()
1 Deer Park dr Suite E
Monmouth Junction, NJ 08852
Email: vpatel0212@gmail.com
🏠 Home Page
(<https://www.elucidaoncology.com/>)



DR. JANANI M ()
Auxilium College
(Autonomous), Vellore, TN,
India

Email:
jananim@auxiliumcollege.edu.in
🏠 Home Page
(<http://www.auxiliumcollege.edu.in/>)



DR. S.M. FAZEELA MAHABOOB
BEGUM ()
School of Life Sciences BS
Abdur Rahman Crescent
Institute of Science and
Technology Seethakathi estate
Vandalur Chennai 600048 India
Email:

fazeelabegum@crescent.education
🏠 Home Page
(<https://crescent.education/university/schools/school-of-life-sciences/faculty/dr-s-m-fazeela-mahaboob-begum/>)

Chat with us



DR. MEENAKSHI PATEL ()
Department of Pharmaceutics,
School of Pharmacy, Faculty of
Pharmacy, and Research &
Development Cell, Parul
University, Waghodia, Vadodara
- 391760, Gujarat, India
Email:
meenakshi.patel24771@paruluniversity.ac.in
🏠 Home Page
(<https://www.paruluniversity.ac.in/our-research-team>)



DR. BALAJI NAMDEO
THAKARE ()
Anuradha College of Pharmacy,
Chikhli, Dist. Buldana (M.S.)
India
Email:
balaji.thakare2@gmail.com
🏠 Home Page
(<https://anuradhapharmacydegree.co.in/index.php>)

Recent Articles

Tags

Not Available

ABOUT JOURNAL

Research Journal of Pharmacy and Technology (RJPT) is an international, peer-reviewed, multidisciplinary journal, devoted to pharmaceutical sciences. The aim of RJPT is to increase the impact of pharmaceutical research both in academia and industry, with strong emphasis on quality and originality. RJPT publishes Original Research Articles, Short Communications, Review Articles in all areas of pharmaceutical sciences from the discovery of a drug up to clinical evaluation. Topics covered are: Pharmaceutics and Pharmacokinetics; Pharmaceutical chemistry including medicinal and analytical chemistry; Pharmacognosy including herbal products standardization and Phytochemistry; Pharmacology: Allied sciences including drug regulatory affairs,

VISITORS



Today:

Yesterday:

Total:

[Chat with us](#)

Pharmaceutical Marketing, Pharmaceutical Microbiology, Pharmaceutical biochemistry, Pharmaceutical Education and Hospital Pharmacy.

[Read More >>> \(AboutJournal.aspx\)](#)

[HOME \(HOME.ASPX\)](#) | [ABOUT JOURNAL \(ABOUTJOURNAL.ASPX\)](#) |
[EDITORIAL BOARD \(EDITORIALBOARD.ASPX\)](#) | [SITEMAP \(SITEMAP.XML\)](#)



Designed and Developed by:

T-Labs Solutions

(<https://tlabssolutions.com/>)(<https://tlabssolutions.com/>)

Chat with us



[\(Home.aspx\)](#)

Research Journal of Pharmacy and Technology

[\(Home.aspx\)](#)

ISSN

0974-360X (Online)

0974-3618 (Print)

[HOME ▾ \(HOME.ASPX\)](#)

[PAST ISSUES \(PASTISSUES.ASPX\)](#)

[EDITORIAL BOARD \(EDITORIALBOARD.ASPX\)](#) [Submit Article \(SubmitArticles.aspx\)](#) [FOR AUTHORS](#)

[MORE ▾](#)

ARTICLES IN VOLUME - 18, ISSUE - 11

[NEWS \(NEWS.ASPX\)](#)

search



Online Since: Thursday, Nov 13, 2025 [Views: 38805]



Issue Contents

[Read » \(EditorsMessage/E_Msg_18_11.pdf\)](#)

Chat with us

Neuroprotection by Arbutin against Haloperidol-Induced Tardive Dyskinesia in Rats via Antioxidant and Anti-Inflammatory Activity (AbstractView.aspx?PID=2025-18-11-1)

Author(s): Gursewak Singh, Shubham Upadhayay, Uma Shanker Navik, Puneet Kumar, Ashi Mannan, Thakur Gurjeet Singh

DOI: 10.52711/0974-360X.2025.00739 (<https://www.doi.org/10.52711/0974-360X.2025.00739>)

Views: 0 (pdf), 1182 (html)

Access:  Closed Access

Cite: Gursewak Singh, Shubham Upadhayay, Uma Shanker Navik, Puneet Kumar, Ashi Mannan, Thakur Gurjeet Singh. Neuroprotection by Arbutin against Haloperidol-Induced Tardive Dyskinesia in Rats via Antioxidant and Anti-Inflammatory Activity. *Research Journal Pharmacy and Technology*. 2025;18(11):5121-7. doi: 10.52711/0974-360X.2025.00739 (<https://www.doi.org/10.52711/0974-360X.2025.00739>)

Read More »

(AbstractView.aspx?
PID=2025-18-
11-1)

Development and Evaluation of Gastroretentive Mucoadhesive Captopril Tablets (AbstractView.aspx?PID=2025-18-11-10)

Author(s): Chandrashekar C. Patil, Geeta Singri, Santosh Karajgi, Syed Samiulla Hundekar, Kavita R.N., Abhishek Morabale

DOI: 10.52711/0974-360X.2025.00748 (<https://www.doi.org/10.52711/0974-360X.2025.00748>)

Views: 0 (pdf), 806 (html)

Access:  Closed Access

Cite: Chandrashekar C. Patil, Geeta Singri, Santosh Karajgi, Syed Samiulla Hundekar, Kavita R.N., Abhishek Morabale. Development and Evaluation of Gastroretentive Mucoadhesive Captopril Tablets. *Research Journal Pharmacy and Technology*. 2025;18(11):5183-0. doi: 10.52711/0974-360X.2025.00748 (<https://www.doi.org/10.52711/0974-360X.2025.00748>)

Read More »

(AbstractView.aspx?
PID=2025-18-
11-10)

Chat with us

Palmarosa Essential Oil Study: Composition, Cytotoxicity and Molecular Docking on T-47D (AbstractView.aspx?PID=2025-18-11-11)

Author(s): Susilowati, Ardy Prian Nirwana, Dwi Koko Pratoko, Nastiti Utami, Selsa Rizky Widya Ariyanto

DOI: 10.52711/0974-360X.2025.00749 (<https://www.doi.org/10.52711/0974-360X.2025.00749>)

Views: 0 (pdf), 669 (html)

Access:  Closed Access

Cite: Susilowati, Ardy Prian Nirwana, Dwi Koko Pratoko, Nastiti Utami, Selsa Rizky Widya Ariyanto. Palmarosa Essential Oil Study: Composition, Cytotoxicity and Molecular Docking on T-47D. *Research Journal Pharmacy and Technology*. 2025;18(11):5191-0. doi: 10.52711/0974-360X.2025.00749 (<https://www.doi.org/10.52711/0974-360X.2025.00749>)

Read More »

(AbstractView.aspx?
PID=2025-18-
11-11)

Development and Validation of UV Spectroscopy Simultaneous Estimation of Glimepiride and Linagliptin in A Synthetic Mixture (AbstractView.aspx?PID=2025-18-11-12)

Author(s): Hardik Jeshti, Kajal Vable, Krishna Kalsara, Mitali Dalwadi, Aakash Vasava, Umesh Upadhayay

DOI: 10.52711/0974-360X.2025.00750 (<https://www.doi.org/10.52711/0974-360X.2025.00750>)

Views: 0 (pdf), 682 (html)

Access:  Closed Access

Cite: Hardik Jeshti, Kajal Vable, Krishna Kalsara, Mitali Dalwadi, Aakash Vasava, Umesh Upadhayay. Development and Validation of UV Spectroscopy Simultaneous Estimation of Glimepiride and Linagliptin in A Synthetic Mixture. *Research Journal Pharmacy and Technology*. 2025;18(11):5201-6. doi: 10.52711/0974-360X.2025.00750 (<https://www.doi.org/10.52711/0974-360X.2025.00750>)

Read More »

(AbstractView.aspx?
PID=2025-18-
11-12)

Chat with us

Comparative study of chemical composition and antioxidant activity of volatile oils extracted from *Pimpinella anisum* L. and *Anethum graveolens* L. fruits grown in Syria. (AbstractView.aspx?PID=2025-18-11-13)

Author(s): Duaa Al-Naimy, Mohammad Isam Hasan Agha

DOI: 10.52711/0974-360X.2025.00751 (<https://www.doi.org/10.52711/0974-360X.2025.00751>)

Views: 0 (pdf), 634 (html)

Access:  Closed Access

Cite: Duaa Al-Naimy, Mohammad Isam Hasan Agha. Comparative study of chemical composition and antioxidant activity of volatile oils extracted from *Pimpinella anisum* L. and *Anethum graveolens* L. fruits grown in Syria. *Research Journal Pharmacy and Technology*. 2025;18(11):5207-5. doi: 10.52711/0974-360X.2025.00751 (<https://www.doi.org/10.52711/0974-360X.2025.00751>)

Read More »

(AbstractView.aspx?
PID=2025-18-
11-13)

Nanogel Formulations of Kratom (*Mitragyna speciosa*) Extract: A Promising Antibiofilm agent for Diabetic Ulcer Infections (AbstractView.aspx?PID=2025-18-11-14)

Author(s): Deni Setiawan, Samsul Hadi, Nurul Mardiaty, Nur Mahdi, Amalia Khairunnisa, Aisya Aqifah, Hasyrul Hamzah, Siswadi

DOI: 10.52711/0974-360X.2025.00752 (<https://www.doi.org/10.52711/0974-360X.2025.00752>)

Views: 0 (pdf), 881 (html)

Access:  Closed Access

Cite: Deni Setiawan, Samsul Hadi, Nurul Mardiaty, Nur Mahdi, Amalia Khairunnisa, Aisya Aqifah, Hasyrul Hamzah, Siswadi. Nanogel Formulations of Kratom (*Mitragyna speciosa*) Extract: A Promising Antibiofilm agent for Diabetic Ulcer Infections. *Research Journal Pharmacy and Technology*. 2025;18(11):5216-2. doi: 10.52711/0974-360X.2025.00752 (<https://www.doi.org/10.52711/0974-360X.2025.00752>)

Read More »

(AbstractView.aspx?
PID=2025-18-
11-14)

Chat with us

Formulation and Evaluation of Shampoo from Medicinal plants and its Antifungal Activity against Scalp Yeast Infection Causing *Candida labiduridarum* (AbstractView.aspx?PID=2025-18-11-15)

Author(s): S. Mridula, P. Akilandeswari

DOI: 10.52711/0974-360X.2025.00753 (<https://www.doi.org/10.52711/0974-360X.2025.00753>)

Views: 0 (pdf), 975 (html)

Access:  Closed Access

Cite: S. Mridula, P. Akilandeswari. Formulation and Evaluation of Shampoo from Medicinal plants and its Antifungal Activity against Scalp Yeast Infection Causing *Candida labiduridarum*. *Research Journal Pharmacy and Technology*. 2025;18(11):5223-8. doi: 10.52711/0974-360X.2025.00753 (<https://www.doi.org/10.52711/0974-360X.2025.00753>)

Read More »

(AbstractView.aspx?
PID=2025-18-
11-15)

Innovative Diacerein Nanosponge Tablet Formulation for Enhanced Therapeutic Efficacy (AbstractView.aspx?PID=2025-18-11-16)

Author(s): Mahesha Keerikkadu, Pragathi Devanand Bangera, Fmith Celvia Miranda, AR Shabaraya, Mahalaxmi Rathnanand

DOI: 10.52711/0974-360X.2025.00754 (<https://www.doi.org/10.52711/0974-360X.2025.00754>)

Views: 0 (pdf), 623 (html)

Access:  Closed Access

Cite: Mahesha Keerikkadu, Pragathi Devanand Bangera, Fmith Celvia Miranda, AR Shabaraya, Mahalaxmi Rathnanand. Innovative Diacerein Nanosponge Tablet Formulation for Enhanced Therapeutic Efficacy. *Research Journal Pharmacy and Technology*. 2025;18(11):5229-3. doi: 10.52711/0974-360X.2025.00754 (<https://www.doi.org/10.52711/0974-360X.2025.00754>)

Read More »

(AbstractView.aspx?
PID=2025-18-
11-16)

Chat with us

Structural and Biological Characterization of Carotenoids Carbon Quantum Dots from the newly Isolated Haloarcula sp. NF1 (AbstractView.aspx?PID=2025-18-11-17)

Author(s): *Nayera Fayez, Fatima Hassouna, Mohsen Ghali, Ahmed Osman*

DOI: 10.52711/0974-360X.2025.00755 (<https://www.doi.org/10.52711/0974-360X.2025.00755>)

Views: 0 (pdf), 513 (html)

Access:  Closed Access

Cite: *Nayera Fayez, Fatima Hassouna, Mohsen Ghali, Ahmed Osman. Structural and Biological Characterization of Carotenoids Carbon Quantum Dots from the newly Isolated Haloarcula sp. NF1. Research Journal Pharmacy and Technology. 2025;18(11):5234-4. doi: 10.52711/0974-360X.2025.00755 (<https://www.doi.org/10.52711/0974-360X.2025.00755>)*

Read More »

(AbstractView.aspx?
PID=2025-18-
11-17)

Evaluation of the Phenolic, Flavonoid, Antioxidant and Active ingredients in Lemon peel extract (AbstractView.aspx?PID=2025-18-11-18)

Author(s): *Manvi Sharma, Aakansha, Madhulika Esther Prasad, Ajam Shaikh, Chinmoyee Maharana, Amit Gupta*

DOI: 10.52711/0974-360X.2025.00756 (<https://www.doi.org/10.52711/0974-360X.2025.00756>)

Views: 0 (pdf), 631 (html)

Access:  Closed Access

Cite: *Manvi Sharma, Aakansha, Madhulika Esther Prasad, Ajam Shaikh, Chinmoyee Maharana, Amit Gupta. Evaluation of the Phenolic, Flavonoid, Antioxidant and Active ingredients in Lemon peel extract. Research Journal Pharmacy and Technology. 2025;18(11):5245-0. doi: 10.52711/0974-360X.2025.00756 (<https://www.doi.org/10.52711/0974-360X.2025.00756>)*

Read More »

(AbstractView.aspx?
PID=2025-18-
11-18)

Chat with us

Design, Development and Assessment of Fast-dissolving Tropisetron Hydrochloride Tablets (AbstractView.aspx?PID=2025-18-11-19)

Author(s): Sanyojita Y. Patil, Sachinkumar V. Patil, Jameel Ahmed S. Mulla

DOI: 10.52711/0974-360X.2025.00757 (<https://www.doi.org/10.52711/0974-360X.2025.00757>)

Views: 0 (pdf), 526 (html)

Access:  Closed Access

Cite: Sanyojita Y. Patil, Sachinkumar V. Patil, Jameel Ahmed S. Mulla. Design, Development and Assessment of Fast-dissolving Tropisetron Hydrochloride Tablets. *Research Journal Pharmacy and Technology*. 2025;18(11):5251-7. doi: 10.52711/0974-360X.2025.00757 (<https://www.doi.org/10.52711/0974-360X.2025.00757>)

Read More »

(AbstractView.aspx?
PID=2025-18-
11-19)

Cytotoxicity, Antioxidant and Anti-inflammatory activities of Bis- ketone 1,3-Bis (2-acetylphenoxy)-2-propanol: An In silico, In vitro and In vivo studies (AbstractView.aspx?PID=2025-18-11-2)

Author(s): Rabiaa Harrache, Ahlem Karbab, Riadh Bourzami, Nouredine Charef, Lekhmici Arrar

DOI: 10.52711/0974-360X.2025.00740 (<https://www.doi.org/10.52711/0974-360X.2025.00740>)

Views: 0 (pdf), 454 (html)

Access:  Closed Access

Cite: Rabiaa Harrache, Ahlem Karbab, Riadh Bourzami, Nouredine Charef, Lekhmici Arrar. Cytotoxicity, Antioxidant and Anti-inflammatory activities of Bis- ketone 1,3-Bis (2-acetylphenoxy)-2-propanol: An In silico, In vitro and In vivo studies. *Research Journal Pharmacy and Technology*. 2025;18(11):5128-6. doi: 10.52711/0974-360X.2025.00740 (<https://www.doi.org/10.52711/0974-360X.2025.00740>)

Read More »

(AbstractView.aspx?
PID=2025-18-
11-2)

Chat with us

Value and Accuracy of Carcinoembryonic Antigen, Carbohydrate Antigen 19-9, and Platelet to Lymphocyte Ratio for Detection High Stage and Metastases of Colorectal Cancer in Indonesia (AbstractView.aspx?PID=2025-18-11-20)

Author(s): *Yudith Annisa Ayu Rezkitha, Soetjipto Soetjipto, Willy Sandhika, Juniastuti Juniastuti, Budi Utomo, Mohan Ramchandani, Phawinee Subsomwong, Hasan Maulahela, Langgeng Agung Waskito, Maria Inge Lusida, Ricky Indra Alfaray, Yoshio Yamaoka, Muhammad Miftahussurur*

DOI: [10.52711/0974-360X.2025.00758](https://www.doi.org/10.52711/0974-360X.2025.00758) (<https://www.doi.org/10.52711/0974-360X.2025.00758>)

Views: 0 (pdf), 516 (html)

Access:  Closed Access

Cite: *Yudith Annisa Ayu Rezkitha, Soetjipto Soetjipto, Willy Sandhika, Juniastuti Juniastuti, Budi Utomo, Mohan Ramchandani, Phawinee Subsomwong, Hasan Maulahela, Langgeng Agung Waskito, Maria Inge Lusida, Ricky Indra Alfaray, Yoshio Yamaoka, Muhammad Miftahussurur. Value and Accuracy of Carcinoembryonic Antigen, Carbohydrate Antigen 19-9, and Platelet to Lymphocyte Ratio for Detection High Stage and Metastases of Colorectal Cancer in Indonesia. Research Journal Pharmacy and Technology. 2025;18(11):5258-6. doi: 10.52711/0974-360X.2025.00758* (<https://www.doi.org/10.52711/0974-360X.2025.00758>)

Read More »

(AbstractView.aspx?
PID=2025-18-
11-20)

Clinical Care Monitoring for patients with Neurodevelopmental disorders administered with Carbamazepine associated with CYP and SULT genes (AbstractView.aspx?PID=2025-18-11-21)

Author(s): *Sarah Khallad, Eyad Mallah, Luay Abu-Qatouseh, Ahmad Abu-awwad, Kenza Mansoor, Shada Abutaleb, Khaled W. Omari, Hanna Dib, Tawfiq Arafat*

DOI: [10.52711/0974-360X.2025.00759](https://www.doi.org/10.52711/0974-360X.2025.00759) (<https://www.doi.org/10.52711/0974-360X.2025.00759>)

Views: 0 (pdf), 550 (html)

Access:  Closed Access

Cite: *Sarah Khallad, Eyad Mallah, Luay Abu-Qatouseh, Ahmad Abu-awwad, Kenza Mansoor, Shada Abutaleb, Khaled W. Omari, Hanna Dib, Tawfiq Arafat. Clinical Care Monitoring for patients with Neurodevelopmental disorders administered with Carbamazepine associated with CYP and SULT genes. Research Journal Pharmacy and Technology. 2025;18(11):5267-4. doi: 10.52711/0974-360X.2025.00759* (<https://www.doi.org/10.52711/0974-360X.2025.00759>)

Read More »

(AbstractView.aspx?
PID=2025-18-
11-21)

Chat with us

Efficacy of "Rekindle for Women" Candyceutical in Hormonal Balance: A 90-Day Focused Group Study (AbstractView.aspx?PID=2025-18-11-22)

Author(s): Shefali P. Thakkar, Nikita C. Naterwalla, Kirti S. Laddha

DOI: 10.52711/0974-360X.2025.00760 (<https://www.doi.org/10.52711/0974-360X.2025.00760>)

Views: 0 (pdf), 552 (html)

Access:  Closed Access

Cite: Shefali P. Thakkar, Nikita C. Naterwalla, Kirti S. Laddha. Efficacy of "Rekindle for Women" Candyceutical in Hormonal Balance: A 90-Day Focused Group Study. *Research Journal Pharmacy and Technology*. 2025;18(11):5275-0. doi: 10.52711/0974-360X.2025.00760 (<https://www.doi.org/10.52711/0974-360X.2025.00760>)

Read More »

(AbstractView.aspx?
PID=2025-18-
11-22)

Antiparkinson activity of the Ethanolic Extract from Holarrehena antidysentrica Leaves test in Swiss albino mice (AbstractView.aspx?PID=2025-18-11-23)

Author(s): Arati Nipurte, Baban Thawkar, Mohan Kale

DOI: 10.52711/0974-360X.2025.00761 (<https://www.doi.org/10.52711/0974-360X.2025.00761>)

Views: 0 (pdf), 455 (html)

Access:  Closed Access

Cite: Arati Nipurte, Baban Thawkar, Mohan Kale. Antiparkinson activity of the Ethanolic Extract from Holarrehena antidysentrica Leaves test in Swiss albino mice. *Research Journal Pharmacy and Technology*. 2025;18(11):5281-7. doi: 10.52711/0974-360X.2025.00761 (<https://www.doi.org/10.52711/0974-360X.2025.00761>)

Read More »

(AbstractView.aspx?
PID=2025-18-
11-23)

Chat with us

Stability Indicating RP-HPLC Method Development and Validation for Simultaneous Estimation of Silodosin and Tadalafil in Synthetic Mixture (AbstractView.aspx?PID=2025-18-11-24)

Author(s): Amitkumar J. Vyas, Anjali V. Ramani, Harshal M. Vadile, Ajay I. Patel, Ashvin V. Dudhrejiya, Sunny R. Shah, Urvi J. Chotaliya, Shweta Prajapati, Devang B. Sheth

DOI: 10.52711/0974-360X.2025.00762 (<https://www.doi.org/10.52711/0974-360X.2025.00762>)

Views: 0 (pdf), 909 (html)

Access:  Closed Access

Cite: Amitkumar J. Vyas, Anjali V. Ramani, Harshal M. Vadile, Ajay I. Patel, Ashvin V. Dudhrejiya, Sunny R. Shah, Urvi J. Chotaliya, Shweta Prajapati, Devang B. Sheth. Stability Indicating RP-HPLC Method Development and Validation for Simultaneous Estimation of Silodosin and Tadalafil in Synthetic Mixture. *Research Journal Pharmacy and Technology*. 2025;18(11):5288-2. doi: 10.52711/0974-360X.2025.00762 (<https://www.doi.org/10.52711/0974-360X.2025.00762>)

Read More »

(AbstractView.aspx?
PID=2025-18-
11-24)

Extraction, Isolation, Characterization and Anti-Cancer study of Flavonoids from Bauhinia acuminata Linn. (AbstractView.aspx?PID=2025-18-11-25)

Author(s): Mohsin J. Jamadar, Preeti Khulbe

DOI: 10.52711/0974-360X.2025.00763 (<https://www.doi.org/10.52711/0974-360X.2025.00763>)

Views: 0 (pdf), 435 (html)

Access:  Closed Access

Cite: Mohsin J. Jamadar, Preeti Khulbe. Extraction, Isolation, Characterization and Anti-Cancer study of Flavonoids from Bauhinia acuminata Linn.. *Research Journal Pharmacy and Technology*. 2025;18(11):5293-0. doi: 10.52711/0974-360X.2025.00763 (<https://www.doi.org/10.52711/0974-360X.2025.00763>)

Read More »

(AbstractView.aspx?
PID=2025-18-
11-25)

Chat with us

Evaluation of Hepatoprotective and Wound Healing Activities in Experimental Rats and Phytochemical Screening by using Cucurbita maxima peel extract (AbstractView.aspx?PID=2025-18-11-26)

Author(s): Galanki Vasantha, S. Satyalakshmi, Dakamarri Ravikiran, Y Srinivasa Rao

DOI: 10.52711/0974-360X.2025.00764 (<https://www.doi.org/10.52711/0974-360X.2025.00764>)

Views: 0 (pdf), 364 (html)

Access:  Closed Access

Cite: Galanki Vasantha, S. Satyalakshmi, Dakamarri Ravikiran, Y Srinivasa Rao. Evaluation of Hepatoprotective and Wound Healing Activities in Experimental Rats and Phytochemical Screening by using Cucurbita maxima peel extract. *Research Journal Pharmacy and Technology*. 2025;18(11):5301-7. doi: 10.52711/0974-360X.2025.00764 (<https://www.doi.org/10.52711/0974-360X.2025.00764>)

Read More »

(AbstractView.aspx?
PID=2025-18-
11-26)

Avocado Seed Kombucha: Comprehensive Physicochemical, Sensory Profile and Toxicity Test during Fermentation Process (AbstractView.aspx?PID=2025-18-11-27)

Author(s): Imas Solihat, Siti Syarifah Amalia, Lilis Sulistiawaty, Widya Puspantari

DOI: 10.52711/0974-360X.2025.00765 (<https://www.doi.org/10.52711/0974-360X.2025.00765>)

Views: 0 (pdf), 417 (html)

Access:  Closed Access

Cite: Imas Solihat, Siti Syarifah Amalia, Lilis Sulistiawaty, Widya Puspantari. Avocado Seed Kombucha: Comprehensive Physicochemical, Sensory Profile and Toxicity Test during Fermentation Process. *Research Journal Pharmacy and Technology*. 2025;18(11):5308-4. doi: 10.52711/0974-360X.2025.00765 (<https://www.doi.org/10.52711/0974-360X.2025.00765>)

Read More »

(AbstractView.aspx?
PID=2025-18-
11-27)

Chat with us

In vitro Antimotility Assay of Dried Ethanolic Extract of *Sechium edule* fruit in *Pheretima posthuma* (AbstractView.aspx?PID=2025-18-11-28)

Author(s): Sindhuja A, Sakthitharan S, Preethi P, Vishva C

DOI: 10.52711/0974-360X.2025.00766 (<https://www.doi.org/10.52711/0974-360X.2025.00766>)

Views: 0 (pdf), 431 (html)

Access:  Closed Access

Cite: Sindhuja A, Sakthitharan S, Preethi P, Vishva C. In vitro Antimotility Assay of Dried Ethanolic Extract of *Sechium edule* fruit in *Pheretima posthuma*. *Research Journal Pharmacy and Technology*. 2025;18(11):5315-9. doi: 10.52711/0974-360X.2025.00766 (<https://www.doi.org/10.52711/0974-360X.2025.00766>)

Read More »

(AbstractView.aspx?
PID=2025-18-
11-28)

Anti-inflammatory Potential of Quercetin and CAPE in Propolis Against Cyclooxygenase 2 (In silico study) (AbstractView.aspx?PID=2025-18-11-29)

Author(s): Budiastuti Budiastuti, Hani Plumeriastuti, Mustofa Helmi Effendi, Vitra Nuraini Helmi, Emmanuel Nnabuike Ugbo, Wiwiek Tyasningsih, Aswin Rafif Khairullah, Ikechukwu Benjamin Moses

DOI: 10.52711/0974-360X.2025.00767 (<https://www.doi.org/10.52711/0974-360X.2025.00767>)

Views: 0 (pdf), 645 (html)

Access:  Closed Access

Cite: Budiastuti Budiastuti, Hani Plumeriastuti, Mustofa Helmi Effendi, Vitra Nuraini Helmi, Emmanuel Nnabuike Ugbo, Wiwiek Tyasningsih, Aswin Rafif Khairullah, Ikechukwu Benjamin Moses. Anti-inflammatory Potential of Quercetin and CAPE in Propolis Against Cyclooxygenase 2 (In silico study). *Research Journal Pharmacy and Technology*. 2025;18(11):5320-8. doi: 10.52711/0974-360X.2025.00767 (<https://www.doi.org/10.52711/0974-360X.2025.00767>)

Read More »

(AbstractView.aspx?
PID=2025-18-
11-29)

Chat with us

Hydrothermally Synthesized Carbon Quantum Dots from Watermelon Peel for Fluorescent Ink and selective Sensing of Fe³⁺, Pb²⁺, and Ag⁺ Ions (AbstractView.aspx?PID=2025-18-11-3)

Author(s): Namita Bhardwaj, Anjali Padey, Arvind Kumar Prajapati

DOI: 10.52711/0974-360X.2025.00741 (<https://www.doi.org/10.52711/0974-360X.2025.00741>)

Views: 0 (pdf), 562 (html)

Access:  Closed Access

Cite: Namita Bhardwaj, Anjali Padey, Arvind Kumar Prajapati. Hydrothermally Synthesized Carbon Quantum Dots from Watermelon Peel for Fluorescent Ink and selective Sensing of Fe³⁺, Pb²⁺, and Ag⁺ Ions. *Research Journal Pharmacy and Technology*. 2025;18(11):5137-1. doi: 10.52711/0974-360X.2025.00741 (<https://www.doi.org/10.52711/0974-360X.2025.00741>)

Read More »

(AbstractView.aspx?
PID=2025-18-
11-3)

Comparative Study on the effect of Hydrophilic and Hydrophobic Polymers on the Dissolution Rate of Metformin-gliclazide Extended-release Bilayer Tablet (AbstractView.aspx?PID=2025-18-11-30)

Author(s): Tarshni Murale, Jiyauddin Khan, Eva Tan Lee Yin

DOI: 10.52711/0974-360X.2025.00768 (<https://www.doi.org/10.52711/0974-360X.2025.00768>)

Views: 0 (pdf), 450 (html)

Access:  Closed Access

Cite: Tarshni Murale, Jiyauddin Khan, Eva Tan Lee Yin. Comparative Study on the effect of Hydrophilic and Hydrophobic Polymers on the Dissolution Rate of Metformin-gliclazide Extended-release Bilayer Tablet. *Research Journal Pharmacy and Technology*. 2025;18(11):5329-6. doi: 10.52711/0974-360X.2025.00768 (<https://www.doi.org/10.52711/0974-360X.2025.00768>)

Read More »

(AbstractView.aspx?
PID=2025-18-
11-30)

Chat with us

HPTLC Analysis of Hydromethanolic extract of Rasna Species (AbstractView.aspx?PID=2025-18-11-31)

Author(s): Salwa Abdul Salam, Devi T, Raju A

DOI: 10.52711/0974-360X.2025.00769 (<https://www.doi.org/10.52711/0974-360X.2025.00769>)

Views: 0 (pdf), 431 (html)

Access:  Closed Access

Cite: Salwa Abdul Salam, Devi T, Raju A. HPTLC Analysis of Hydromethanolic extract of Rasna Species. *Research Journal Pharmacy and Technology*. 2025;18(11):5337-4. doi: 10.52711/0974-360X.2025.00769 (<https://www.doi.org/10.52711/0974-360X.2025.00769>)

Read More »

(AbstractView.aspx?
PID=2025-18-
11-31)

Targeting Alpha 1-antichymotrypsin Variant DBS-II and Oxidized Quinone Reductase-2 with Phytochemicals: an In silico Docking and ADMET Study (AbstractView.aspx?PID=2025-18-11-32)

Author(s): Saurabh Nimesh, Pratibha Kumari, Gosiya, Rajan Chauhan, Md. Quamuddin

DOI: 10.52711/0974-360X.2025.00770 (<https://www.doi.org/10.52711/0974-360X.2025.00770>)

Views: 0 (pdf), 421 (html)

Access:  Closed Access

Cite: Saurabh Nimesh, Pratibha Kumari, Gosiya, Rajan Chauhan, Md. Quamuddin. Targeting Alpha 1-antichymotrypsin Variant DBS-II and Oxidized Quinone Reductase-2 with Phytochemicals: an In silico Docking and ADMET Study. *Research Journal Pharmacy and Technology*. 2025;18(11):5345-2. doi: 10.52711/0974-360X.2025.00770 (<https://www.doi.org/10.52711/0974-360X.2025.00770>)

Read More »

(AbstractView.aspx?
PID=2025-18-
11-32)

Chat with us

Evaluation of Anti-Microbial Activity of *Achyranthes aspera* Root against Periodontal Pathogens - An In Vitro Study (AbstractView.aspx?PID=2025-18-11-33)

Author(s): Shagun Malik, Amit Bhardwaj

DOI: 10.52711/0974-360X.2025.00771 (<https://www.doi.org/10.52711/0974-360X.2025.00771>)

Views: 0 (pdf), 461 (html)

Access:  Closed Access

Cite: Shagun Malik, Amit Bhardwaj. Evaluation of Anti-Microbial Activity of *Achyranthes aspera* Root against Periodontal Pathogens - An In Vitro Study. *Research Journal Pharmacy and Technology*. 2025;18(11):5353-7. doi: 10.52711/0974-360X.2025.00771 (<https://www.doi.org/10.52711/0974-360X.2025.00771>)

Read More »

(AbstractView.aspx?
PID=2025-18-
11-33)

Co-amorphous of Etoricoxib and Citric Acid with Enhancement in Solubility and Dissolution (AbstractView.aspx?PID=2025-18-11-34)

Author(s): Lili Fitriani, Nabila Andari Syafitri, Muhammad Nasrul Siregar, Adhitya Jessica, Erizal Zaini

DOI: 10.52711/0974-360X.2025.00772 (<https://www.doi.org/10.52711/0974-360X.2025.00772>)

Views: 0 (pdf), 535 (html)

Access:  Closed Access

Cite: Lili Fitriani, Nabila Andari Syafitri, Muhammad Nasrul Siregar, Adhitya Jessica, Erizal Zaini. Co-amorphous of Etoricoxib and Citric Acid with Enhancement in Solubility and Dissolution. *Research Journal Pharmacy and Technology*. 2025;18(11):5358-4. doi: 10.52711/0974-360X.2025.00772 (<https://www.doi.org/10.52711/0974-360X.2025.00772>)

Read More »

(AbstractView.aspx?
PID=2025-18-
11-34)

Chat with us

Evaluation of antibacterial efficacy of SDF, sodium fluoride varnish and Neem Silver Nanoparticle varnish on Streptococcus mutan in caries prevention (AbstractView.aspx?PID=2025-18-11-35)

Author(s): Prabu Mahin Syed Ismail, Kaushik Shetty, Toby Thomas, Fahanna Beegum M.S, Arshad Jamal Sayed, Nazargi Mahabob, Ahmad S Albahoth, Zeeshan Heera Ahmad, Sangamesh Chinnannavar, Prashant Babaji

DOI: 10.52711/0974-360X.2025.00773 (<https://www.doi.org/10.52711/0974-360X.2025.00773>)

Views: 0 (pdf), 559 (html)

Access:  Closed Access

Cite: Prabu Mahin Syed Ismail, Kaushik Shetty, Toby Thomas, Fahanna Beegum M.S, Arshad Jamal Sayed, Nazargi Mahabob, Ahmad S Albahoth, Zeeshan Heera Ahmad, Sangamesh Chinnannavar, Prashant Babaji. Evaluation of antibacterial efficacy of SDF, sodium fluoride varnish and Neem Silver Nanoparticle varnish on Streptococcus mutan in caries prevention. *Research Journal Pharmacy and Technology*. 2025;18(11):5365-9. doi: 10.52711/0974-360X.2025.00773 (<https://www.doi.org/10.52711/0974-360X.2025.00773>)

Read More »

(AbstractView.aspx?
PID=2025-18-
11-35)

Very Low Achievement of LDL-C Targets Based On 2019 ESC Guidelines and Factors Associated with Low Achievement of LDL-C Target (AbstractView.aspx?PID=2025-18-11-36)

Author(s): Wenny Putri Nilamsari, Mochamad Yusuf Alsagaff, Aminatush Sholichah, Ela Agustin, Meuthia Handayani, Halim Priyahau jaya, Budi Suprapti, Arina Dery Puspita Sari

DOI: 10.52711/0974-360X.2025.00774 (<https://www.doi.org/10.52711/0974-360X.2025.00774>)

Views: 0 (pdf), 534 (html)

Access:  Closed Access

Cite: Wenny Putri Nilamsari, Mochamad Yusuf Alsagaff, Aminatush Sholichah, Ela Agustin, Meuthia Handayani, Halim Priyahau jaya, Budi Suprapti, Arina Dery Puspita Sari. Very Low Achievement of LDL-C Targets Based On 2019 ESC Guidelines and Factors Associated with Low Achievement of LDL-C Target. *Research Journal Pharmacy and Technology*. 2025;18(11):5370-6. doi: 10.52711/0974-360X.2025.00774 (<https://www.doi.org/10.52711/0974-360X.2025.00774>)

Read More »

(AbstractView.aspx?
PID=2025-18-
11-36)

Chat with us

Preparation and characterization of phase-separated hydrogels based on gelatin and hydroxypropyl methylcellulose for vaginal drug delivery applications (AbstractView.aspx?PID=2025-18-11-37)

Author(s): Rajeshree Panigrahi, Jainadatta Panda, Ajit Kumar Acharya, Biswaranjan Mohanty, Iswori Prasad Padhy, Deepak Kumar Dash

DOI: 10.52711/0974-360X.2025.00775 (<https://www.doi.org/10.52711/0974-360X.2025.00775>)

Views: 0 (pdf), 568 (html)

Access:  Closed Access

Cite: Rajeshree Panigrahi, Jainadatta Panda, Ajit Kumar Acharya, Biswaranjan Mohanty, Iswori Prasad Padhy, Deepak Kumar Dash. Preparation and characterization of phase-separated hydrogels based on gelatin and hydroxypropyl methylcellulose for vaginal drug delivery applications. *Research Journal Pharmacy and Technology*. 2025;18(11):5377-4. doi: 10.52711/0974-360X.2025.00775 (<https://www.doi.org/10.52711/0974-360X.2025.00775>)

Read More »

(AbstractView.aspx?
PID=2025-18-
11-37)

Study of Morphological and Anatomical Diagnostic Signs of Astragalus dasyanthus Pall. Roots (AbstractView.aspx?PID=2025-18-11-38)

Author(s): M.V. Nenakhova-Gelfand, O.G. Potanina, R.A. Abramovich, A.V. Nikulin

DOI: 10.52711/0974-360X.2025.00776 (<https://www.doi.org/10.52711/0974-360X.2025.00776>)

Views: 0 (pdf), 487 (html)

Access:  Closed Access

Cite: M.V. Nenakhova-Gelfand, O.G. Potanina, R.A. Abramovich, A.V. Nikulin. Study of Morphological and Anatomical Diagnostic Signs of *Astragalus dasyanthus* Pall. Roots. *Research Journal Pharmacy and Technology*. 2025;18(11):5385-8. doi: 10.52711/0974-360X.2025.00776 (<https://www.doi.org/10.52711/0974-360X.2025.00776>)

Read More »

(AbstractView.aspx?
PID=2025-18-
11-38)

Chat with us

Molecular Profiling of Isocitrate Dehydrogenase (IDH) Mutations in Gliomas: Insights from a Tertiary Referral Center in Indonesia (AbstractView.aspx?PID=2025-18-11-39)

Author(s): Dessika Rahmawati, Diah Prabawati Retnani, Rose Khasana Dewi, Arvidareyna Panca Aprilianingtyas

DOI: 10.52711/0974-360X.2025.00777 (<https://www.doi.org/10.52711/0974-360X.2025.00777>)

Views: 0 (pdf), 481 (html)

Access:  Closed Access

Cite: Dessika Rahmawati, Diah Prabawati Retnani, Rose Khasana Dewi, Arvidareyna Panca Aprilianingtyas. *Molecular Profiling of Isocitrate Dehydrogenase (IDH) Mutations in Gliomas: Insights from a Tertiary Referral Center in Indonesia*. *Research Journal Pharmacy and Technology*. 2025;18(11):5389-4. doi: 10.52711/0974-360X.2025.00777 (<https://www.doi.org/10.52711/0974-360X.2025.00777>)

Read More »

(AbstractView.aspx?
PID=2025-18-
11-39)

In vitro Cytotoxic effect of 2-(morpholin-4-yl)-4,5-bis(2",2",2"-trinitroethoxy)-1,3,5-Triazine on Human Fibroblasts, Pzeripheral Blood Mononuclear Cells and Breast Cancer Cells (AbstractView.aspx?PID=2025-18-11-4)

Author(s): Larisa V. Limareva, Pavel V. Iliasov, Alexander A. Gidaspov, Vladimir A. Zalomlenkov, Aleksey S. Sustretov, Vanda V. Bogush, Viktoriya V. Rossinskaya

DOI: 10.52711/0974-360X.2025.00742 (<https://www.doi.org/10.52711/0974-360X.2025.00742>)

Views: 0 (pdf), 349 (html)

Access:  Closed Access

Cite: Larisa V. Limareva, Pavel V. Iliasov, Alexander A. Gidaspov, Vladimir A. Zalomlenkov, Aleksey S. Sustretov, Vanda V. Bogush, Viktoriya V. Rossinskaya. *In vitro Cytotoxic effect of 2-(morpholin-4-yl)-4,5-bis(2",2",2"-trinitroethoxy)-1,3,5-Triazine on Human Fibroblasts, Pzeripheral Blood Mononuclear Cells and Breast Cancer Cells*. *Research Journal Pharmacy and Technology*. 2025;18(11):5142-6. doi: 10.52711/0974-360X.2025.00742 (<https://www.doi.org/10.52711/0974-360X.2025.00742>)

Read More »

(AbstractView.aspx?
PID=2025-18-
11-4)

Chat with us

ICH-Compliant HPTLC Method for the Quantitative Determination of Sacubitril and Valsartan in Pharmaceutical Tablets (AbstractView.aspx?PID=2025-18-11-40)

Author(s): Manisha P. Puranik, Debarshi Kar Mahapatra, Shital D. Tiple, Pornima G. Zade

DOI: 10.52711/0974-360X.2025.00778 (<https://www.doi.org/10.52711/0974-360X.2025.00778>)

Views: 0 (pdf), 504 (html)

Access:  Closed Access

Cite: Manisha P. Puranik, Debarshi Kar Mahapatra, Shital D. Tiple, Pornima G. Zade. ICH-Compliant HPTLC Method for the Quantitative Determination of Sacubitril and Valsartan in Pharmaceutical Tablets. *Research Journal Pharmacy and Technology*. 2025;18(11):5395-0. doi: 10.52711/0974-360X.2025.00778 (<https://www.doi.org/10.52711/0974-360X.2025.00778>)

Read More »

(AbstractView.aspx?
PID=2025-18-
11-40)

Identification of Potential GSK3 α Ligands and Prediction of their Drug-like Properties (AbstractView.aspx?PID=2025-18-11-41)

Author(s): Neha Sylvia Walter, Sanchit Dora, Jasmeet Kaur

DOI: 10.52711/0974-360X.2025.00779 (<https://www.doi.org/10.52711/0974-360X.2025.00779>)

Views: 0 (pdf), 394 (html)

Access:  Closed Access

Cite: Neha Sylvia Walter, Sanchit Dora, Jasmeet Kaur. Identification of Potential GSK3 α Ligands and Prediction of their Drug-like Properties. *Research Journal Pharmacy and Technology*. 2025;18(11):5401-0. doi: 10.52711/0974-360X.2025.00779 (<https://www.doi.org/10.52711/0974-360X.2025.00779>)

Read More »

(AbstractView.aspx?
PID=2025-18-
11-41)

Chat with us

RP-HPLC Method Development and Validation of Empagliflozin by using QbD Approach (AbstractView.aspx?PID=2025-18-11-42)

Author(s): Prerana Prakash Bhavsar, Subodh Anil Gangurde

DOI: 10.52711/0974-360X.2025.00780 (<https://www.doi.org/10.52711/0974-360X.2025.00780>)

Views: 0 (pdf), 734 (html)

Access:  Closed Access

Cite: Prerana Prakash Bhavsar, Subodh Anil Gangurde. RP-HPLC Method Development and Validation of Empagliflozin by using QbD Approach. *Research Journal Pharmacy and Technology*. 2025;18(11):5411-5. doi: 10.52711/0974-360X.2025.00780 (<https://www.doi.org/10.52711/0974-360X.2025.00780>)

Read More »

(AbstractView.aspx?
PID=2025-18-
11-42)

Bioactive compounds from *Tinospora cordifolia* and *Azadirachta indica* could alleviate diabetic foot ulcers: A Systematic in-silico study of their effects on SIRT1, TGFBR1, F2, NOS3, and MAPK14 via signaling pathways (AbstractView.aspx?PID=2025-18-11-43)

Author(s): Adarsh Kumar Pathak, Vikas Kumar Chaudhri, Amit Kumar Singh, Deepak Kumar, Anand Kumar Singh, Akash Ved

DOI: 10.52711/0974-360X.2025.00781 (<https://www.doi.org/10.52711/0974-360X.2025.00781>)

Views: 0 (pdf), 630 (html)

Access:  Closed Access

Cite: Adarsh Kumar Pathak, Vikas Kumar Chaudhri, Amit Kumar Singh, Deepak Kumar, Anand Kumar Singh, Akash Ved. Bioactive compounds from *Tinospora cordifolia* and *Azadirachta indica* could alleviate diabetic foot ulcers: A Systematic in-silico study of their effects on SIRT1, TGFBR1, F2, NOS3, and MAPK14 via signaling pathways. *Research Journal Pharmacy and Technology*. 2025;18(11):5416-4. doi: 10.52711/0974-360X.2025.00781 (<https://www.doi.org/10.52711/0974-360X.2025.00781>)

Read More »

(AbstractView.aspx?
PID=2025-18-
11-43)

Chat with us

Aphrodisiac Effectiveness of 70% Ethanol Extract of Caulis Lelak (*Uvaria rufa* Blume.) on Male Mice (*Mus musculus*) (AbstractView.aspx?PID=2025-18-11-44)

Author(s): Faisal Akhmal Muslikh, Ira Oktavia, Burhan Ma'arif, Maximux M. Taek, Dyah Aryantini, Nadia Pramasari, Syendriva Zeptyan Zenmas

DOI: 10.52711/0974-360X.2025.00782 (<https://www.doi.org/10.52711/0974-360X.2025.00782>)

Views: 0 (pdf), 513 (html)

Access:  Closed Access

Cite: Faisal Akhmal Muslikh, Ira Oktavia, Burhan Ma'arif, Maximux M. Taek, Dyah Aryantini, Nadia Pramasari, Syendriva Zeptyan Zenmas. Aphrodisiac Effectiveness of 70% Ethanol Extract of Caulis Lelak (*Uvaria rufa* Blume.) on Male Mice (*Mus musculus*). *Research Journal Pharmacy and Technology*. 2025;18(11):5425-0. doi: 10.52711/0974-360X.2025.00782 (<https://www.doi.org/10.52711/0974-360X.2025.00782>)

Read More »

(AbstractView.aspx?
PID=2025-18-
11-44)

Multicomponent Synthesis, In-silico ADMET Properties, Docking Studies, Antidiabetic and Antioxidant Activities of Novel Thiazolyl fused Chromen-2-one derivatives (AbstractView.aspx?PID=2025-18-11-45)

Author(s): Sachin A Kumbar, Abhirami PV, Anusha S, Ranjitha Acharya, Arvinda Pai, Pankaj Kumar

DOI: 10.52711/0974-360X.2025.00783 (<https://www.doi.org/10.52711/0974-360X.2025.00783>)

Views: 0 (pdf), 423 (html)

Access:  Closed Access

Cite: Sachin A Kumbar, Abhirami PV, Anusha S, Ranjitha Acharya, Arvinda Pai, Pankaj Kumar. Multicomponent Synthesis, In-silico ADMET Properties, Docking Studies, Antidiabetic and Antioxidant Activities of Novel Thiazolyl fused Chromen-2-one derivatives. *Research Journal Pharmacy and Technology*. 2025;18(11):5431-7. doi: 10.52711/0974-360X.2025.00783 (<https://www.doi.org/10.52711/0974-360X.2025.00783>)

Read More »

(AbstractView.aspx?
PID=2025-18-
11-45)

Chat with us

Integration of Multivariate Data Analysis and composite desirability index to identify process and optimize formulation components in development of gel containing aceclofenac loaded nanoparticles (AbstractView.aspx?PID=2025-18-11-46)

Author(s): Priya Patel, Shikha Shukla, Grishma Patel, Divyang Dave, Anita Lalwani

DOI: 10.52711/0974-360X.2025.00784 (<https://www.doi.org/10.52711/0974-360X.2025.00784>)

Views: 0 (pdf), 382 (html)

Access:  Closed Access

Cite: Priya Patel, Shikha Shukla, Grishma Patel, Divyang Dave, Anita Lalwani. Integration of Multivariate Data Analysis and composite desirability index to identify process and optimize formulation components in development of gel containing aceclofenac loaded nanoparticles. *Research Journal Pharmacy and Technology*. 2025;18(11):5438-6. doi: 10.52711/0974-360X.2025.00784 (<https://www.doi.org/10.52711/0974-360X.2025.00784>)

Read More »

(AbstractView.aspx?
PID=2025-18-
11-46)

Effect of Moringa oleifera Lam. Extract on NK Cells and Leukocytes of White Male Mice (Mus musculus) Exposed to Antigen Virus COVID-19 (AbstractView.aspx?PID=2025-18-11-47)

Author(s): Yufri Aldi, Atika Mayyola, Dira Hefni, Afriwardi Afriwardi, Salman Umar, Aditya Alqamal Alianta

DOI: 10.52711/0974-360X.2025.00785 (<https://www.doi.org/10.52711/0974-360X.2025.00785>)

Views: 0 (pdf), 546 (html)

Access:  Closed Access

Cite: Yufri Aldi, Atika Mayyola, Dira Hefni, Afriwardi Afriwardi, Salman Umar, Aditya Alqamal Alianta. Effect of Moringa oleifera Lam. Extract on NK Cells and Leukocytes of White Male Mice (Mus musculus) Exposed to Antigen Virus COVID-19. *Research Journal Pharmacy and Technology*. 2025;18(11):5447-4. doi: 10.52711/0974-360X.2025.00785 (<https://www.doi.org/10.52711/0974-360X.2025.00785>)

Read More »

(AbstractView.aspx?
PID=2025-18-
11-47)

Chat with us

Efficiency of Wayne's and Zulewski's Clinical Score for Diagnosing Hyperthyroidism and Hypothyroidism in younger adults: A Prospective Study in Palakkad (AbstractView.aspx?PID=2025-18-11-48)

Author(s): Sreeja P. A, Irene. V. R, Dawn. V. J, Ameena Kadar K. A, Neema K. M

DOI: 10.52711/0974-360X.2025.00786 (<https://www.doi.org/10.52711/0974-360X.2025.00786>)

Views: 0 (pdf), 535 (html)

Access:  Closed Access

Cite: Sreeja P. A, Irene. V. R, Dawn. V. J, Ameena Kadar K. A, Neema K. M. Efficiency of Wayne's and Zulewski's Clinical Score for Diagnosing Hyperthyroidism and Hypothyroidism in younger adults: A Prospective Study in Palakkad. *Research Journal Pharmacy and Technology*. 2025;18(11):5455-9. doi: 10.52711/0974-360X.2025.00786 (<https://www.doi.org/10.52711/0974-360X.2025.00786>)

Read More »

(AbstractView.aspx?
PID=2025-18-
11-48)

Design and Optimization of Sustain Release Drug Delivery System of Loxoprofen (AbstractView.aspx?PID=2025-18-11-49)

Author(s): Pooja Prakash Rayanade, Amolkumar Kempwade, Rupesh Kulkarni, Shital Khavare, Shrivardhan Bolaj, Yadishma Gaude

DOI: 10.52711/0974-360X.2025.00787 (<https://www.doi.org/10.52711/0974-360X.2025.00787>)

Views: 0 (pdf), 481 (html)

Access:  Closed Access

Cite: Pooja Prakash Rayanade, Amolkumar Kempwade, Rupesh Kulkarni, Shital Khavare, Shrivardhan Bolaj, Yadishma Gaude. Design and Optimization of Sustain Release Drug Delivery System of Loxoprofen. *Research Journal Pharmacy and Technology*. 2025;18(11):5460-4. doi: 10.52711/0974-360X.2025.00787 (<https://www.doi.org/10.52711/0974-360X.2025.00787>)

Read More »

(AbstractView.aspx?
PID=2025-18-
11-49)

Chat with us

In vitro Evaluation of Antidiabetic, Antioxidant, Cytotoxic Activities and Phytochemical Screening of Methanolic Extracts of Thevetia peruviana Bark and Solanum viarum fruit (AbstractView.aspx?PID=2025-18-11-5)

Author(s): Koushik Choudhury, Rajat Ghosh, Saikat Sen, Biplab De

DOI: 10.52711/0974-360X.2025.00743 (<https://www.doi.org/10.52711/0974-360X.2025.00743>)

Views: 0 (pdf), 445 (html)

Access:  Closed Access

Cite: Koushik Choudhury, Rajat Ghosh, Saikat Sen, Biplab De. In vitro Evaluation of Antidiabetic, Antioxidant, Cytotoxic Activities and Phytochemical Screening of Methanolic Extracts of Thevetia peruviana Bark and Solanum viarum fruit. *Research Journal Pharmacy and Technology*. 2025;18(11):5147-4. doi: 10.52711/0974-360X.2025.00743 (<https://www.doi.org/10.52711/0974-360X.2025.00743>)

Read More »

(AbstractView.aspx?
PID=2025-18-
11-5)

To Evaluate the Anti-diabetic and Anti-hyperlipidemic Activity of Leonurus Cardiac L. (Motherwort) extract in Streptozotocin Induced Diabetes in Rats (AbstractView.aspx?PID=2025-18-11-50)

Author(s): Kartikey, Satnam Singh, Mandeep Singh, Ritu Kainth, Meenu Begam

DOI: 10.52711/0974-360X.2025.00788 (<https://www.doi.org/10.52711/0974-360X.2025.00788>)

Views: 0 (pdf), 421 (html)

Access:  Closed Access

Cite: Kartikey, Satnam Singh, Mandeep Singh, Ritu Kainth, Meenu Begam. To Evaluate the Anti-diabetic and Anti-hyperlipidemic Activity of Leonurus Cardiac L. (Motherwort) extract in Streptozotocin Induced Diabetes in Rats. *Research Journal Pharmacy and Technology*. 2025;18(11):5465-1. doi: 10.52711/0974-360X.2025.00788 (<https://www.doi.org/10.52711/0974-360X.2025.00788>)

Read More »

(AbstractView.aspx?
PID=2025-18-
11-50)

Chat with us

Robusta Coffee Husk Extract as a Promising Natural Compound for The Treatment of Periodontitis: A Focus on Alveolar Bone Resorption and Formation (AbstractView.aspx?PID=2025-18-11-51)

Author(s): Nadie Fatimatuazzahro, Hanna Alifia Pratiwi, Rendra Chriestedy Prasetya, Amandia Dewi Permana Shita, Dwi Kartika Apriyono, Nuzulul Hikmah, Hafiedz Maulana

DOI: 10.52711/0974-360X.2025.00789 (<https://www.doi.org/10.52711/0974-360X.2025.00789>)

Views: 0 (pdf), 538 (html)

Access:  Closed Access

Cite: Nadie Fatimatuazzahro, Hanna Alifia Pratiwi, Rendra Chriestedy Prasetya, Amandia Dewi Permana Shita, Dwi Kartika Apriyono, Nuzulul Hikmah, Hafiedz Maulana. Robusta Coffee Husk Extract as a Promising Natural Compound for The Treatment of Periodontitis: A Focus on Alveolar Bone Resorption and Formation. *Research Journal Pharmacy and Technology*. 2025;18(11):5472-8. doi: 10.52711/0974-360X.2025.00789 (<https://www.doi.org/10.52711/0974-360X.2025.00789>)

Read More »

(AbstractView.aspx?
PID=2025-18-
11-51)

Hepatoprotective, Anti-Inflammatory and Anti-Oxidant Activity of Polyherbal Formulation (Aeroliv) in rats (AbstractView.aspx?PID=2025-18-11-52)

Author(s): Jayarami Reddy A, Pavani Priya Thondepu, S. Sundar, Divya Sree Chillara, Manasa Kunapareddy, Geetha Sunkesula, Susmitha Pandrangi

DOI: 10.52711/0974-360X.2025.00790 (<https://www.doi.org/10.52711/0974-360X.2025.00790>)

Views: 0 (pdf), 410 (html)

Access:  Closed Access

Cite: Jayarami Reddy A, Pavani Priya Thondepu, S. Sundar, Divya Sree Chillara, Manasa Kunapareddy, Geetha Sunkesula, Susmitha Pandrangi. Hepatoprotective, Anti-Inflammatory and Anti-Oxidant Activity of Polyherbal Formulation (Aeroliv) in rats. *Research Journal Pharmacy and Technology*. 2025;18(11):5479-6. doi: 10.52711/0974-360X.2025.00790 (<https://www.doi.org/10.52711/0974-360X.2025.00790>)

Read More »

(AbstractView.aspx?
PID=2025-18-
11-52)

Chat with us

Isoflavones as Natural Galactagogues: Prolactin receptor binding and lactation Enhancement Potential of Vitexin and Isovitexin from *Oxalis corniculata* (AbstractView.aspx?PID=2025-18-11-53)

Author(s): Mahalakshmi Sundarapandian, Samson Sanjay C, Sai Kumar R, Nirmal R, Priya R

DOI: 10.52711/0974-360X.2025.00791 (<https://www.doi.org/10.52711/0974-360X.2025.00791>)

Views: 0 (pdf), 458 (html)

Access:  Closed Access

Cite: Mahalakshmi Sundarapandian, Samson Sanjay C, Sai Kumar R, Nirmal R, Priya R. Isoflavones as Natural Galactagogues: Prolactin receptor binding and lactation Enhancement Potential of Vitexin and Isovitexin from *Oxalis corniculata*. *Research Journal Pharmacy and Technology*. 2025;18(11):5487-2. doi: 10.52711/0974-360X.2025.00791 (<https://www.doi.org/10.52711/0974-360X.2025.00791>)

Read More »

(AbstractView.aspx?
PID=2025-18-
11-53)

Nanoemulgel Optimization of *Achatina fulica* Mucus: A D-Optimal Mixture Design Approach for Enhanced Formulation and Penetration Evaluation In Vitro (AbstractView.aspx?PID=2025-18-11-54)

Author(s): Hanidya Fidela Ulayya, Erindyah Retno Wikantyasning

DOI: 10.52711/0974-360X.2025.00792 (<https://www.doi.org/10.52711/0974-360X.2025.00792>)

Views: 0 (pdf), 635 (html)

Access:  Closed Access

Cite: Hanidya Fidela Ulayya, Erindyah Retno Wikantyasning. Nanoemulgel Optimization of *Achatina fulica* Mucus: A D-Optimal Mixture Design Approach for Enhanced Formulation and Penetration Evaluation In Vitro. *Research Journal Pharmacy and Technology*. 2025;18(11):5493-1. doi: 10.52711/0974-360X.2025.00792 (<https://www.doi.org/10.52711/0974-360X.2025.00792>)

Read More »

(AbstractView.aspx?
PID=2025-18-
11-54)

Chat with us

Isolation and Characterization of Ficus benghalensis Linn Milk Latex by using UV Spectrophotometry (AbstractView.aspx?PID=2025-18-11-55)

Author(s): Biswanath Prusty, Santanu Kumar Hotta, Rabindra Padhy, Ganesh Kumar Sahoo, Samir Kumar Pradhan

DOI: 10.52711/0974-360X.2025.00793 (<https://www.doi.org/10.52711/0974-360X.2025.00793>)

Views: 0 (pdf), 469 (html)

Access:  Closed Access

Cite: Biswanath Prusty, Santanu Kumar Hotta, Rabindra Padhy, Ganesh Kumar Sahoo, Samir Kumar Pradhan. Isolation and Characterization of Ficus benghalensis Linn Milk Latex by using UV Spectrophotometry. *Research Journal Pharmacy and Technology*. 2025;18(11):5502-8. doi: 10.52711/0974-360X.2025.00793 (<https://www.doi.org/10.52711/0974-360X.2025.00793>)

Read More »

(AbstractView.aspx?

PID=2025-18-

11-55)

The Paris System for Urine Cytology in Urothelial Neoplasms: A Comparative Study with Histopathological Correlation (AbstractView.aspx?PID=2025-18-11-56)

Author(s): Bibendu Bal, Aparajita Mishra, Atanu Kumar Bal, Devidutta Ramani Ranjan Rout, Sashibhusan Dash

DOI: 10.52711/0974-360X.2025.00794 (<https://www.doi.org/10.52711/0974-360X.2025.00794>)

Views: 0 (pdf), 433 (html)

Access:  Closed Access

Cite: Bibendu Bal, Aparajita Mishra, Atanu Kumar Bal, Devidutta Ramani Ranjan Rout, Sashibhusan Dash. The Paris System for Urine Cytology in Urothelial Neoplasms: A Comparative Study with Histopathological Correlation. *Research Journal Pharmacy and Technology*. 2025;18(11):5509-4. doi: 10.52711/0974-360X.2025.00794 (<https://www.doi.org/10.52711/0974-360X.2025.00794>)

Read More »

(AbstractView.aspx?

PID=2025-18-

11-56)

Chat with us

Development and Characterization of Polymeric Idebenone Spherical Agglomerates by Quasi-emulsion Solvent Diffusion Technique (AbstractView.aspx?PID=2025-18-11-57)

Author(s): Umang R. Varia, Krunal K. Detholia, Hitesh B. Katariya, Mukesh B. Jadeja, Amrutha A Mohandas, Hardi R Patel

DOI: 10.52711/0974-360X.2025.00795 (<https://www.doi.org/10.52711/0974-360X.2025.00795>)

Views: 0 (pdf), 464 (html)

Access:  Closed Access

Cite: Umang R. Varia, Krunal K. Detholia, Hitesh B. Katariya, Mukesh B. Jadeja, Amrutha A Mohandas, Hardi R Patel. Development and Characterization of Polymeric Idebenone Spherical Agglomerates by Quasi-emulsion Solvent Diffusion Technique. *Research Journal Pharmacy and Technology*. 2025;18(11):5515-3. doi: 10.52711/0974-360X.2025.00795 (<https://www.doi.org/10.52711/0974-360X.2025.00795>)

Read More »

(AbstractView.aspx?
PID=2025-18-
11-57)

Solubility Enhancement of Efavirenz using β -Cyclodextrin by Solid Dispersion Technique (AbstractView.aspx?PID=2025-18-11-58)

Author(s): Thamarai Selvan Dhandapani, Raagul Seenivasan, Vijayaraghavan Krishnan, Sarvesh Ravichandran, Sukeshan Palanisamy, Dhandapani Nagasamy Venkatesh

DOI: 10.52711/0974-360X.2025.00796 (<https://www.doi.org/10.52711/0974-360X.2025.00796>)

Views: 0 (pdf), 482 (html)

Access:  Closed Access

Cite: Thamarai Selvan Dhandapani, Raagul Seenivasan, Vijayaraghavan Krishnan, Sarvesh Ravichandran, Sukeshan Palanisamy, Dhandapani Nagasamy Venkatesh. Solubility Enhancement of Efavirenz using β -Cyclodextrin by Solid Dispersion Technique. *Research Journal Pharmacy and Technology*. 2025;18(11):5524-0. doi: 10.52711/0974-360X.2025.00796 (<https://www.doi.org/10.52711/0974-360X.2025.00796>)

Read More »

(AbstractView.aspx?
PID=2025-18-
11-58)

Chat with us

Studies of Bioactive Compounds From The Combination of Red Fruit Extract and Red Betel Leaf Extract in The Form of Halal Capsule Powder as a Potential to Reduce Blood Sugar Levels (AbstractView.aspx?PID=2025-18-11-59)

Author(s): Syamsuri Syakri, Gemy Nastity Handayany, Selpida Handayani, Muhammad Subhan A. Sibadu, Yulisa Magrifa

DOI: 10.52711/0974-360X.2025.00797 (<https://www.doi.org/10.52711/0974-360X.2025.00797>)

Views: 0 (pdf), 417 (html)

Access:  Closed Access

Cite: Syamsuri Syakri, Gemy Nastity Handayany, Selpida Handayani, Muhammad Subhan A. Sibadu, Yulisa Magrifa. *Studies of Bioactive Compounds From The Combination of Red Fruit Extract and Red Betel Leaf Extract in The Form of Halal Capsule Powder as a Potential to Reduce Blood Sugar Levels*. *Research Journal Pharmacy and Technology*. 2025;18(11):5531-8. doi: 10.52711/0974-360X.2025.00797 (<https://www.doi.org/10.52711/0974-360X.2025.00797>)

Read More »

(AbstractView.aspx?
PID=2025-18-
11-59)

Study of Acute Toxicity of Carbon Dioxide Extract from the Above ground Part of Scabiosa ochroleuca L. (AbstractView.aspx?PID=2025-18-11-6)

Author(s): Miras Oraz, Maira Zhunussova, Raisa Abdullabekova, Shynar Tursynova, Roza Seidakhmetova, Saule Akhmetova, Gulnur Mamytbekova, Suleimen Yerlan

DOI: 10.52711/0974-360X.2025.00744 (<https://www.doi.org/10.52711/0974-360X.2025.00744>)

Views: 0 (pdf), 430 (html)

Access:  Closed Access

Cite: Miras Oraz, Maira Zhunussova, Raisa Abdullabekova, Shynar Tursynova, Roza Seidakhmetova, Saule Akhmetova, Gulnur Mamytbekova, Suleimen Yerlan. *Study of Acute Toxicity of Carbon Dioxide Extract from the Above ground Part of Scabiosa ochroleuca L.* *Research Journal Pharmacy and Technology*. 2025;18(11):5155-0. doi: 10.52711/0974-360X.2025.00744 (<https://www.doi.org/10.52711/0974-360X.2025.00744>)

Read More »

(AbstractView.aspx?
PID=2025-18-
11-6)

Chat with us

Significance of Inspection in the Formulation Industry: A Study on various Defects and its Remediation (AbstractView.aspx?PID=2025-18-11-60)

Author(s): Abinaya G., Jyodish S S., Ashlesh Prabhu., Mahendra Joshi., Kiran Kumar H., Girish Pai K.

DOI: 10.52711/0974-360X.2025.00798 (<https://www.doi.org/10.52711/0974-360X.2025.00798>)

Views: 0 (pdf), 471 (html)

Access:  Closed Access

Cite: Abinaya G., Jyodish S S., Ashlesh Prabhu., Mahendra Joshi., Kiran Kumar H., Girish Pai K.. Significance of Inspection in the Formulation Industry: A Study on various Defects and its Remediation. *Research Journal Pharmacy and Technology*. 2025;18(11):5539-4. doi: 10.52711/0974-360X.2025.00798 (<https://www.doi.org/10.52711/0974-360X.2025.00798>)

Read More »

(AbstractView.aspx?
PID=2025-18-
11-60)

Formulation and Characterization of Camptothecin Cubosomes for Anti-Cancer Treatment (AbstractView.aspx?PID=2025-18-11-61)

Author(s): Ankita P. Kawtikwar, V. N. Deshmukh, D. A. Bhagwat

DOI: 10.52711/0974-360X.2025.00799 (<https://www.doi.org/10.52711/0974-360X.2025.00799>)

Views: 0 (pdf), 428 (html)

Access:  Closed Access

Cite: Ankita P. Kawtikwar, V. N. Deshmukh, D. A. Bhagwat. Formulation and Characterization of Camptothecin Cubosomes for Anti-Cancer Treatment. *Research Journal Pharmacy and Technology*. 2025;18(11):5545-0. doi: 10.52711/0974-360X.2025.00799 (<https://www.doi.org/10.52711/0974-360X.2025.00799>)

Read More »

(AbstractView.aspx?
PID=2025-18-
11-61)

Chat with us

Development and Validation of RP- HPLC Method for the Determination of Azathioprine in Bulk and Pharmaceutical Dosage form (AbstractView.aspx?PID=2025-18-11-62)

Author(s): Munzareen M. Bagwan, Ganesh R. Gadekar, Md. Javeed Y. Manure, Bahubali N. Patil, Sneha S. Sherbande

DOI: 10.52711/0974-360X.2025.00800 (<https://www.doi.org/10.52711/0974-360X.2025.00800>)

Views: 0 (pdf), 585 (html)

Access:  Closed Access

Cite: Munzareen M. Bagwan, Ganesh R. Gadekar, Md. Javeed Y. Manure, Bahubali N. Patil, Sneha S. Sherbande. Development and Validation of RP- HPLC Method for the Determination of Azathioprine in Bulk and Pharmaceutical Dosage form. *Research Journal Pharmacy and Technology*. 2025;18(11):5551-6. doi: 10.52711/0974-360X.2025.00800 (<https://www.doi.org/10.52711/0974-360X.2025.00800>)

Read More »

(AbstractView.aspx?
PID=2025-18-
11-62)

Red Moringa oleifera Demonstrates Protective Hepatotoxicity effects in Mice Infected with Salmonella typhi by Suppressing Natural Killer (NK) and Macrophage (AbstractView.aspx?PID=2025-18-11-63)

Author(s): Maria Magdalena Riyaniarti Estri Wuryandari, Ninis Yuliati, Vivien Dwi Purnamasari

DOI: 10.52711/0974-360X.2025.00801 (<https://www.doi.org/10.52711/0974-360X.2025.00801>)

Views: 0 (pdf), 430 (html)

Access:  Closed Access

Cite: Maria Magdalena Riyaniarti Estri Wuryandari, Ninis Yuliati, Vivien Dwi Purnamasari. Red Moringa oleifera Demonstrates Protective Hepatotoxicity effects in Mice Infected with Salmonella typhi by Suppressing Natural Killer (NK) and Macrophage. *Research Journal Pharmacy and Technology*. 2025;18(11):5557-2. doi: 10.52711/0974-360X.2025.00801 (<https://www.doi.org/10.52711/0974-360X.2025.00801>)

Read More »

(AbstractView.aspx?
PID=2025-18-
11-63)

Chat with us

Green Sythesis of Zinc Oxide Nanoparticles from Clitoria ternatea Extract: Dual Functionality in Arsenic Adsorption and Antibacterial Applications (AbstractView.aspx?PID=2025-18-11-64)

Author(s): Ashish Dadsena, Snehal Narkhede, Akansha Singhai, Varaprasad Kolla, Reecha Sahu, Tanvir Arfin, Piyush Parkhey

DOI: 10.52711/0974-360X.2025.00802 (<https://www.doi.org/10.52711/0974-360X.2025.00802>)

Views: 0 (pdf), 592 (html)

Access:  Closed Access

Cite: Ashish Dadsena, Snehal Narkhede, Akansha Singhai, Varaprasad Kolla, Reecha Sahu, Tanvir Arfin, Piyush Parkhey. Green Sythesis of Zinc Oxide Nanoparticles from Clitoria ternatea Extract: Dual Functionality in Arsenic Adsorption and Antibacterial Applications. *Research Journal Pharmacy and Technology*. 2025;18(11):5563-0. doi: 10.52711/0974-360X.2025.00802 (<https://www.doi.org/10.52711/0974-360X.2025.00802>)

Read More »

(AbstractView.aspx?
PID=2025-18-
11-64)

Red gedi Leaves Extract Increases Insulin Sensitivity Through IRS-1 and GLUT-4 (AbstractView.aspx?PID=2025-18-11-65)

Author(s): Juliet Tangka, Jovie M. Dumanauw, Michael Vallery Loueis Tumbol, Diana Lyrawati

DOI: 10.52711/0974-360X.2025.00803 (<https://www.doi.org/10.52711/0974-360X.2025.00803>)

Views: 0 (pdf), 439 (html)

Access:  Closed Access

Cite: Juliet Tangka, Jovie M. Dumanauw, Michael Vallery Loueis Tumbol, Diana Lyrawati. Red gedi Leaves Extract Increases Insulin Sensitivity Through IRS-1 and GLUT-4. *Research Journal Pharmacy and Technology*. 2025;18(11):5571-6. doi: 10.52711/0974-360X.2025.00803 (<https://www.doi.org/10.52711/0974-360X.2025.00803>)

Read More »

(AbstractView.aspx?
PID=2025-18-
11-65)

Chat with us

Etlingera rubroloba A.D. Poulsen Fruits as a Candidate of Immunostimulatory Potential in Pulmonary Tuberculosis Infection: Analysis of Interleukin-12 and Interferon Gamma Cytokines (AbstractView.aspx?PID=2025-18-11-66)

Author(s): Esti Badia, Nirwati Rusli, Musdalipah, Apriyanto, Adriatman Rasak, Sernita, Asniar Pascayantri, Asriullah Jabbar, Idin Sahidin, Fadhliyah Malik, Nasrudin, Sri Susanty, Mubarak, Wa Ode Salma, Muhammad Ilyas Y

DOI: 10.52711/0974-360X.2025.00804 (<https://www.doi.org/10.52711/0974-360X.2025.00804>)

Views: 0 (pdf), 380 (html)

Access:  Closed Access

Cite: Esti Badia, Nirwati Rusli, Musdalipah, Apriyanto, Adriatman Rasak, Sernita, Asniar Pascayantri, Asriullah Jabbar, Idin Sahidin, Fadhliyah Malik, Nasrudin, Sri Susanty, Mubarak, Wa Ode Salma, Muhammad Ilyas Y. *Etlingera rubroloba A.D. Poulsen Fruits as a Candidate of Immunostimulatory Potential in Pulmonary Tuberculosis Infection: Analysis of Interleukin-12 and Interferon Gamma Cytokines. Research Journal Pharmacy and Technology. 2025;18(11):5577-1. doi: 10.52711/0974-360X.2025.00804* (<https://www.doi.org/10.52711/0974-360X.2025.00804>)

Read More »

(AbstractView.aspx?
PID=2025-18-
11-66)

An Overview of Biological Activities of a Common Fruit Pomegranate-Punica granatum L. (AbstractView.aspx?PID=2025-18-11-67)

Author(s): Vandna Kalsi, Simranjeet Kaur

DOI: 10.52711/0974-360X.2025.00805 (<https://www.doi.org/10.52711/0974-360X.2025.00805>)

Views: 0 (pdf), 603 (html)

Access:  Closed Access

Cite: Vandna Kalsi, Simranjeet Kaur. *An Overview of Biological Activities of a Common Fruit Pomegranate-Punica granatum L.. Research Journal Pharmacy and Technology. 2025;18(11):5582-8. doi: 10.52711/0974-360X.2025.00805* (<https://www.doi.org/10.52711/0974-360X.2025.00805>)

Read More »

(AbstractView.aspx?
PID=2025-18-
11-67)

Chat with us

Mundulea sericea: A Comprehensive Review of its Medicinal Properties and Applications (AbstractView.aspx?PID=2025-18-11-68)

Author(s): Kote Rupali Balasaheb, Dhananjay M. Patil

DOI: 10.52711/0974-360X.2025.00806 (<https://www.doi.org/10.52711/0974-360X.2025.00806>)

Views: 0 (pdf), 509 (html)

Access:  Closed Access

Cite: Kote Rupali Balasaheb, Dhananjay M. Patil. *Mundulea sericea: A Comprehensive Review of its Medicinal Properties and Applications*. *Research Journal Pharmacy and Technology*. 2025;18(11):5589-4. doi: 10.52711/0974-360X.2025.00806 (<https://www.doi.org/10.52711/0974-360X.2025.00806>)

Read More »

(AbstractView.aspx?
PID=2025-18-
11-68)

Unveiling the Potential of Plant Isolates: Extraction Techniques, Therapeutic Attributes and its Industrial Applications (AbstractView.aspx?PID=2025-18-11-69)

Author(s): Shubhangi Srivastav, Ekta Singh Chauhan

DOI: 10.52711/0974-360X.2025.00807 (<https://www.doi.org/10.52711/0974-360X.2025.00807>)

Views: 0 (pdf), 611 (html)

Access:  Closed Access

Cite: Shubhangi Srivastav, Ekta Singh Chauhan. *Unveiling the Potential of Plant Isolates: Extraction Techniques, Therapeutic Attributes and its Industrial Applications*. *Research Journal Pharmacy and Technology*. 2025;18(11):5595-0. doi: 10.52711/0974-360X.2025.00807 (<https://www.doi.org/10.52711/0974-360X.2025.00807>)

Read More »

(AbstractView.aspx?
PID=2025-18-
11-69)

Chat with us

Cream of Lantana camara Linn. Enriched with Ascorbic Acid does not Irritate the Skin (AbstractView.aspx?PID=2025-18-11-7)

Author(s): David Tjahyadi, Edy Parwanto, Hosea Jaya Edy, Joey Joshua Vidova Tjahyadi, Laurentia Gabrielle, Ashaolu Victoria Oladimeji, Seçil Karahüseyin

DOI: 10.52711/0974-360X.2025.00745 (<https://www.doi.org/10.52711/0974-360X.2025.00745>)

Views: 0 (pdf), 477 (html)

Access:  Closed Access

Cite: David Tjahyadi, Edy Parwanto, Hosea Jaya Edy, Joey Joshua Vidova Tjahyadi, Laurentia Gabrielle, Ashaolu Victoria Oladimeji, Seçil Karahüseyin. Cream of Lantana camara Linn. Enriched with Ascorbic Acid does not Irritate the Skin. *Research Journal Pharmacy and Technology*. 2025;18(11):5161-9. doi: 10.52711/0974-360X.2025.00745 (<https://www.doi.org/10.52711/0974-360X.2025.00745>)

Read More »

(AbstractView.aspx?

PID=2025-18-

11-7)

GC-MS Techniques in the Study of Herbal Plants (AbstractView.aspx?PID=2025-18-11-70)

Author(s): Abinash Patra, Haragouri Mishra, K Shyam Sundar Rao, Shyama Sundar Sahu, Swagatika Dash

DOI: 10.52711/0974-360X.2025.00808 (<https://www.doi.org/10.52711/0974-360X.2025.00808>)

Views: 0 (pdf), 520 (html)

Access:  Closed Access

Cite: Abinash Patra, Haragouri Mishra, K Shyam Sundar Rao, Shyama Sundar Sahu, Swagatika Dash. GC-MS Techniques in the Study of Herbal Plants. *Research Journal Pharmacy and Technology*. 2025;18(11):5601-4. doi: 10.52711/0974-360X.2025.00808 (<https://www.doi.org/10.52711/0974-360X.2025.00808>)

Read More »

(AbstractView.aspx?

PID=2025-18-

11-70)

Chat with us

Mouth Dissolving Films: An Emerging Platform for Anti-Hypertensive Drugs (AbstractView.aspx?PID=2025-18-11-71)

Author(s): Sahil Bains, Sahil Kumar, Thakur Gurjeet Singh, Neeraj Mittal

DOI: 10.52711/0974-360X.2025.00809 (<https://www.doi.org/10.52711/0974-360X.2025.00809>)

Views: 0 (pdf), 682 (html)

Access:  Closed Access

Cite: Sahil Bains, Sahil Kumar, Thakur Gurjeet Singh, Neeraj Mittal. Mouth Dissolving Films: An Emerging Platform for Anti-Hypertensive Drugs. *Research Journal Pharmacy and Technology*. 2025;18(11):5605-1. doi: 10.52711/0974-360X.2025.00809 (<https://www.doi.org/10.52711/0974-360X.2025.00809>)

Read More »

(AbstractView.aspx?
PID=2025-18-
11-71)

Liquid Crystal Nanoparticles: A Novel Strategy for Improved Cancer Treatment (AbstractView.aspx?PID=2025-18-11-72)

Author(s): Umesh B. Kolap, Himmat Singh Chawara, Sunil T. Galatage

DOI: 10.52711/0974-360X.2025.00810 (<https://www.doi.org/10.52711/0974-360X.2025.00810>)

Views: 0 (pdf), 491 (html)

Access:  Closed Access

Cite: Umesh B. Kolap, Himmat Singh Chawara, Sunil T. Galatage. Liquid Crystal Nanoparticles: A Novel Strategy for Improved Cancer Treatment. *Research Journal Pharmacy and Technology*. 2025;18(11):5612-8. doi: 10.52711/0974-360X.2025.00810 (<https://www.doi.org/10.52711/0974-360X.2025.00810>)

Read More »

(AbstractView.aspx?
PID=2025-18-
11-72)

Chat with us

A Robust RP-HPLC Method for Silodosin in Bulk and Capsule Dosage Form: An Innovative Perspective on Stability Determination (AbstractView.aspx?PID=2025-18-11-8)

Author(s): Sandip Sen, Mitta Chaitanya, Bairam Ravindar, Kalepu Swathi, Rajasree Suram, Ameeduzzafar Zafar, Sowmya Perudi

DOI: 10.52711/0974-360X.2025.00746 (<https://www.doi.org/10.52711/0974-360X.2025.00746>)

Views: 0 (pdf), 498 (html)

Access:  Closed Access

Cite: Sandip Sen, Mitta Chaitanya, Bairam Ravindar, Kalepu Swathi, Rajasree Suram, Ameeduzzafar Zafar, Sowmya Perudi. A Robust RP-HPLC Method for Silodosin in Bulk and Capsule Dosage Form: An Innovative Perspective on Stability Determination. *Research Journal Pharmacy and Technology*. 2025;18(11):5170-6. doi: 10.52711/0974-360X.2025.00746 (<https://www.doi.org/10.52711/0974-360X.2025.00746>)

Read More »

(AbstractView.aspx?
PID=2025-18-
11-8)

Assessment of Solid Waste Burning Knowledge, Attitude, and Practice in Two selected states of Malaysia (AbstractView.aspx?PID=2025-18-11-9)

Author(s): Swe Swe Latt, Sutha Devaraj, Aye Aye Tun, Leela Anthony, Myat Myo Naing

DOI: 10.52711/0974-360X.2025.00747 (<https://www.doi.org/10.52711/0974-360X.2025.00747>)

Views: 0 (pdf), 618 (html)

Access:  Closed Access

Cite: Swe Swe Latt, Sutha Devaraj, Aye Aye Tun, Leela Anthony, Myat Myo Naing. Assessment of Solid Waste Burning Knowledge, Attitude, and Practice in Two selected states of Malaysia. *Research Journal Pharmacy and Technology*. 2025;18(11):5177-2. doi: 10.52711/0974-360X.2025.00747 (<https://www.doi.org/10.52711/0974-360X.2025.00747>)

Read More »

(AbstractView.aspx?
PID=2025-18-
11-9)

Chat with us



Research Journal of Pharmacy and Technology (RJPT) is an international, peer-reviewed, multidisciplinary journal....

[Read more >>> \(AboutJournal.aspx\)](#)

RNI: CHHENG00387/33/1/2008-TC

DOI: 10.52711/0974-360X

1.3 56th percentile	2021 CiteScore
	Powered by Scopus

(https://www.scopus.com/sourceid/21100197160?dgcid=sc_widget_citescore)

Chat with us

Research Journal of Pharmacy and Technology

Q2

Pharmacology,
Toxicology and
Pharmaceutics...

best quartile

SJR 2024

0.27



powered by scimagojr.com

(<https://www.scimagojr.com/journalsearch.php?q=21100197160&tip=sid&exact=no>)

QUICK LINKS

 [SUBMIT ARTICLE \(SUBMITARTICLE.ASPX\)](#)

 [AUTHOR'S GUIDELINES \(DOWNLOADS/JRU_AUTHORSGUIDELINES.PDF\)](#)

 [PAPER TEMPLATE \(DOWNLOADS/JRU_PAPER_TEMPLATE.DOCX\)](#)

 [COPYRIGHT FORM \(DOWNLOADS/COPYRIGHT TRANSFER FORM.DOCX\)](#)

 [PROCESSING CHARGES \(CHARGESDETAILS.ASPX\)](#)

[Chat with us](#)



INDEXING INFORMATION (INDEXED_IN.ASPX)



PAST ISSUES (PASTISSUES.ASPX)

Journal Policies & Information

[Focus & Scope \(FocusScope.aspx\)](#)

[Informed Consent \(InformedConsent.aspx\)](#)

[Competing Interests \(CompetingInterests.aspx\)](#)

[Privacy Policy \(PrivacyPolicy.aspx\)](#)

[Advertisement Policy \(AdvertisementPolicy.aspx\)](#)

[Disclaimer \(Disclaimer.aspx\)](#)

[Plagiarism Policy \(PlagiarismPolicy.aspx\)](#)

[Publication Ethics \(PublicationEthics.aspx\)](#)

[Reviewers' Guidelines \(ReviewersGuidelines.aspx\)](#)

[Review Policy \(ReviewPolicy.aspx\)](#)

[Correction and Retraction Policy \(CorrectionRetractionPolicy.aspx\)](#)

QUICK LINKS



[SUBMIT ARTICLE \(SUBMITARTICLE.ASPX\)](#)



[AUTHOR'S GUIDELINES \(DOWNLOADS/INSTRUCTIONS_TO_AUTHOR.PDF\)](#)



[PAPER TEMPLATE \(DOWNLOADS/PAPER_TEMPLATE.DOC\)](#)



[COPYRIGHT FORM \(DOWNLOADS/COPYRIGHT TRANSFER FORM.DOCX\)](#)



[CERT. OF CONFLICT OF INTREST \(DOWNLOADS/CERTIFICATE OF CONFLICT OF INTREST.PDF\)](#)



[PROCESSING CHARGES \(CHARGESDETAILS.ASPX\)](#)



INDEXING INFORMATION (INDEXED_IN.ASPX)

LATEST ISSUES



[JANUARY 2026 \(71\) \(ISSUES.ASPX?VID=19&IID=1\)](#)

[Chat with us](#)



DECEMBER 2025 (77) (ISSUES.ASPX?VID=18&IID=12)



NOVEMBER 2025 (72) (ISSUES.ASPX?VID=18&IID=11)



OCTOBER 2025 (77) (ISSUES.ASPX?VID=18&IID=10)



SEPTEMBER 2025 (81) (ISSUES.ASPX?VID=18&IID=9)



AUGUST 2025 (83) (ISSUES.ASPX?VID=18&IID=8)



JULY 2025 (77) (ISSUES.ASPX?VID=18&IID=7)



JUNE 2025 (72) (ISSUES.ASPX?VID=18&IID=6)

POPULAR ARTICLES

(AbstractView.aspx?PID=2016-9-11-11)

Sex determination using the mastoid process using South Indian skulls

(AbstractView.aspx?PID=2016-9-11-11)

(AbstractView.aspx?PID=2020-13-7-74)

Pharmaceutical Incompatibilities: Causes, Types and Major ways of Overcoming in Extemporaneous Medicinal forms

(AbstractView.aspx?PID=2020-13-7-74)

(AbstractView.aspx?PID=2020-13-4-16)

Formulation and Evaluation of Herbal Lipsticks

(AbstractView.aspx?PID=2020-13-4-16)

(AbstractView.aspx?PID=2017-10-9-42)

Detection of Food Adulterants in Chilli, Turmeric and Coriander Powders by Physical and Chemical Methods

(AbstractView.aspx?PID=2017-10-9-42)

(AbstractView.aspx?PID=2020-13-1-43)

Formulation and Evaluation of Herbal Face Cream

(AbstractView.aspx?PID=2020-13-1-43)

Chat with us

(AbstractView.aspx?PID=2017-10-9-19)

Formulation and Evaluation of Aspirin Tablets by Using Different Lubricants in Combination for better Kinetic Drug Release Study by PCP

(AbstractView.aspx?PID=2017-10-9-19)

(AbstractView.aspx?PID=2018-11-7-36)

Effectiveness of Cucumber in reduction of Blood Pressure among hypertensive clients in selected Rural Area

(AbstractView.aspx?PID=2018-11-7-36)

(AbstractView.aspx?PID=2020-13-3-81)

Regulatory requirements for conducting Clinical Trials in India

(AbstractView.aspx?PID=2020-13-3-81)

(AbstractView.aspx?PID=2019-12-11-80)

Dental Waxes–A Review

(AbstractView.aspx?PID=2019-12-11-80)

(AbstractView.aspx?PID=2013-6-2-15)

Medicinal Plants from Solanaceae Family

(AbstractView.aspx?PID=2013-6-2-15)

(AbstractView.aspx?PID=2011-4-9-2)

Formulation and Evaluation of Diclofenac gel

(AbstractView.aspx?PID=2011-4-9-2)

(AbstractView.aspx?PID=2014-7-9-14)

The Use of Neem in Oral Health

(AbstractView.aspx?PID=2014-7-9-14)

(AbstractView.aspx?PID=2019-12-1-69)

Recent Advances in Preventive Resin Restoration (PRR)

(AbstractView.aspx?PID=2019-12-1-69)

(AbstractView.aspx?PID=2017-10-12-61)

Mathematical Models in Drug Discovery, Development and Treatment of Various Diseases – A Case Study

(AbstractView.aspx?PID=2017-10-12-61)

(AbstractView.aspx?PID=2018-11-2-70)

Recent Advancements in Laminates and Veneers in Dentistry

(AbstractView.aspx?PID=2018-11-2-70)

Chat with us

Recent Articles

Tags

Not Available

ABOUT JOURNAL

Research Journal of Pharmacy and Technology (RJPT) is an international, peer-reviewed, multidisciplinary journal, devoted to pharmaceutical sciences. The aim of RJPT is to increase the impact of pharmaceutical research both in academia and industry, with strong emphasis on quality and originality. RJPT publishes Original Research Articles, Short Communications, Review Articles in all areas of pharmaceutical sciences from the discovery of a drug up to clinical evaluation. Topics covered are: Pharmaceutics and Pharmacokinetics; Pharmaceutical chemistry including medicinal and analytical chemistry; Pharmacognosy including herbal products standardization and Phytochemistry; Pharmacology: Allied sciences including drug regulatory affairs, Pharmaceutical Marketing, Pharmaceutical Microbiology, Pharmaceutical biochemistry, Pharmaceutical Education and Hospital Pharmacy.

[Read More >>> \(AboutJournal.aspx\)](#)

VISITORS



Today:

Yesterday:

Total:

[HOME \(HOME.ASPX\)](#) | [ABOUT JOURNAL \(ABOUTJOURNAL.ASPX\)](#) |

[EDITORIAL BOARD \(EDITORIALBOARD.ASPX\)](#) | [SITEMAP \(SITEMAP.XML\)](#)



(<https://tlabssolutions.com/>)

Designed and Developed by:

T-Labs Solutions (<https://tlabssolutions.com/>)

Chat with us

Cream of Lantana camara Linn. Enriched with Ascorbic Acid does not Irritate the Skin

by David Tjahyadi

Submission date: 07-Feb-2026 08:25PM (UTC+0700)

Submission ID: 2873208797

File name: PT-DV-2025-08-07-ARTIKEL-L._camara_Linn._LEC_Asc_acid-TERBIT.pdf (629.04K)

Word count: 7833

Character count: 38627

RESEARCH ARTICLE

12
Cream of *Lantana camara* Linn. Enriched with Ascorbic Acid does not Irritate the Skin

David Tjahyadi^{1*}, Edy Parwanto², Hosea Jaya Edy³, Joey Joshua Vidova Tjahyadi⁴,
Laurentia Gabrielle⁴, Ashaolu Victoria Oladimeji⁵, Seçil Karahüseyin⁶

¹Department of Histology, Faculty of Medicine, Universitas Trisakti, Indonesia.

²Department of Biology, Faculty of Medicine, Universitas Trisakti, Indonesia.

³Study Program of Pharmacy, Faculty of Math and Natural Sciences, Universitas Saragat, Katulangi, Indonesia.

⁴Medical Education Program, Faculty of Medicine, Universitas Trisakti, Indonesia.

⁵Department of Chemistry, Loyola Institute of Frontier Energy, Loyola College, Chennai, India.

⁶Department of Pharmacognosy, Faculty of Pharmacy, Çukurova Üniversitesi, Turkey.

*Corresponding Author E-mail: davesaboch@trisakti.ac.id

ABSTRACT:

11
Lantana camara Linn. has potential as an anti-bacterial. The results of our preliminary research show that changes in levels of quercetin, gallic acid, and tannin affect the antibacterial effectiveness of *E. coli*, *S. aureus*, and *P. aeruginosa*. In addition, changes in the levels of Fe, Zn, quercetin, gallic acid and tannin in the preparations mentioned above are caused by free radicals. Free radicals can be counteracted with antioxidants, for example ascorbic acid. The aim of this research is to determine the effect of adding 10% or 15% ascorbic acid to the *L. camara* Linn. leaf extract cream preparation on antioxidant activity. Apart from that, we also carry out cream standardization and irritation tests. In this study there were 6 groups of cream, namely cream 1 to cream 6. Cream 1 is the cream containing 4% LELC. Cream 2 is the cream containing 4% LELC+10% ASC AC. Cream 3 is the cream containing 4% LELC+15% ASC AC. Cream 4 is the cream containing 5% LELC. Cream 5 is the cream containing 5% LELC +10% ASC AC. Cream 6 is the cream containing 5% LELC+15% ASC AC. Organoleptic test results of cream in these studies shows a semi-solid form, has a characteristic odor of LELC, blackish green color, pH around 5, homogeneous, spread ability ranges from 3.8 – 3.9cm. IC₅₀ of cream containing 5% LELC+15% ASC AC=2.64ppm. Cream containing 5% LELC+15% ASC AC contains flavonoids, phenolics, and tannins of 0.637±0.018mg/g; 0.487±0.005mg/g; and 0.83±0.06 mg/g, respectively. During the observation, no erythema or edema was found due to exposure to cream containing 5% LELC+15% ASC AC. As a control, the cream base also did not irritate the skin. Thus, the cream containing 5% LELC was proven to be non-irritating to the skin.

3
KEYWORDS: *Lantana camara* Linn., Cream, Quercetin, Gallic acid, Tannin, Ascorbic acid, Skin irritation.

INTRODUCTION:

Lantana camara Linn. belongs to the Verbenaceae family. *L. camara* Linn., known locally as tembelekan, is a wild plant that grows without any special care.¹ *L. camara* Linn. has potential as an anti-bacterial.^{2,3,4} Previous studies have shown that the phytochemical composition of *L. camara* Linn. includes phenols, essential oils, flavonoids, proteins, carbohydrates, and alkaloids. In addition, glycosides iridoid glycosides, phenyl ethanoids, glycosides, oligosaccharides, quinine, saponins, steroids, triterpenes, tannins, and sesquiterpenoids are phytochemical components of *L. camara* Linn.⁵ The results of other research show that

4
Received on 09.11.2024 Revised on 02.05.2025
Accepted on 07.08.2025 Published on 08.11.2025
Available online from November 13, 2025
Research J. Pharmacy and Technology. 2025;18(11):5161-5169.
DOI: 10.52711/0974-360X.2025.00745
© RJPT All right reserved
This work is licensed under a Creative Commons Attribution-NonCommercial-ShareAlike 4.0 International License. Creative Commons License.



LELC contains alkaloids, flavonoids, tannins and triterpenoids.⁶

In addition, it is also shown that the extract of *L. camara* Linn. which is formulated in soap which has an antibacterial effect against *S. epidermidis*. Extract of *L. camara* Linn. 4, 6, 8 and 10% showed inhibition against *S. Epidermidis*.⁷ Apart from that, tests have also been carried out on the ointment containing leaves extract of *L. camara* Linn. These tests include organoleptic tests, homogeneity test⁸ and pH tests.^{8,9} There has been research showing that *L. camara* Linn. extract ointment 5% more effective than a 10% dose in healing mouse wounds infected with *S. Epidermidis*.⁹ In addition to the above research, it is also known that creams containing 3, 4, and 5% LELC showed changes in Fe and Zn levels during storage for 6 months at 45 °C. Based on quercetin levels, cream containing 4% LELC was the most stable for a storage period of 6 months at 45°C, while cream containing 3% of *L. camara* Linn. leaf extract is less stable, and cream containing 5% LELC is unstable.¹

Changes in the levels of Fe, Zn, quercetin, gallic acid and tannin in the preparations mentioned above are caused by free radicals. Previously, we have standardized cream containing of *L. camara* Linn. leaf extract enriched with ASC AC based on the content of quercetin, gallic acid and tannin. Free radicals are atoms or groups that have 1 or more unpaired electrons. Therefore, free radicals in cream containing LELC above needs to be suppressed so that the levels of the active antibacterial substance do not decrease. Free radicals can be counteracted with antioxidants.¹⁰ ASC AC and vitamin E are examples of antioxidant substances that can be used for this purpose. These antioxidants can provide electrons to free radicals, and can break the chain reaction of free radicals. Antioxidants are important in cellular responses by suppressing oxidative stress.¹¹

Antioxidant activity is expressed as a IC₅₀ or half-maximal inhibitory concentration against free radicals. IC₅₀ is the concentration of the sample that is able to reduce 50% of the free radical DPPH.¹² The antioxidant activity of the extract was tested by the DPPH free radical scavenging test. DPPH is a stable and purple free radical, which can be absorbed at a wavelength of 517 nm. The presence of anti-free radical compounds causes the DPPH free radical to be reduced so that it changes color to yellow. Since the IC₅₀ is inversely proportional to the antioxidant potential of the extract, the lower of IC₅₀ value, the better of antioxidant power of the extract.¹³

ASC AC has high antioxidant activity. It has been proven that the higher the concentration used, the higher the antioxidant activity. ASC AC is often used to

compare how strong the antioxidant potential contained in fruit skin extracts.¹⁴ It should be noted that the use of different solvents in the extraction process affects the results of the antioxidant activity test. Antioxidant activity testing uses the method of measuring free radical capture by DPPH.¹¹ Measurements have been made on ASC AC which was used as a positive control with an IC₅₀ value of 5.63ppm.²⁵ Based on IC₅₀, antioxidant activity is classified into very strong, strong, medium and weak. Samples have very strong, strong, medium and weak antioxidant activity if they have IC₅₀ < 50ppm, 50-100ppm, 100-150 ppm, and 150-200ppm respectively.¹⁶ If the sample has an IC₅₀ > 200ppm, then the antioxidant activity is very weak.

Toxicological tests are generally carried out on animals, for example mice and Wistar rats.¹⁷ Of course, the toxicological test data are extrapolated to humans.¹⁸ Aside that, irritation properties testing refers to: Regulation of the Head of the Food and Drug Supervisory Agency regarding Guidelines for In Vivo Non-Clinical Toxicity Testing in 2014. Irritation activity testing is carried out on preparations with the optimum formula. The test uses a method of observing the appearance of edema and erythema on the skin of test animals.¹⁹ If the results of these observations show that no mice died, it is concluded that the test material is safe for use on the skin, does not cause side effects or toxicity reactions.²⁰

Based on the description above, we tested the effect of adding ASC AC to the cream containing of LELC on IC₅₀ which can assess antioxidant activity. Apart from that, we also carried out skin irritation tests on rabbits to assess the safety aspects for the skin.

METHODS:

Time and Place of Research:

Preparation and manufacture of cream, and standardization of the LELC which includes measurements of pH, spread ability and organoleptics was carried out at the Biomedical Laboratory, Faculty of Medicine, Universitas Trisakti, Jakarta. Preparation, manufacture of cream, and standardization have been done in March 2024. Measurement of flavonoid, tannin, phenolic, and antioxidant activity test of cream containing of LELC or in combination with ASC AC were carried out at the Pharmacy Laboratory, Pharmacy Study Program, Faculty of Mathematics and Natural Sciences, Universitas Sam Ratulangi, Manado. These measurements were carried out in April - May 2024.

Cream manufacture:

The basic ingredients for the cream are prepared with the following ingredients: stearic acid 16 g, cetyl alcohol 2 g, liquid paraffin 10 mL, methyl paraben 0.2 grams, TEA 7 drops, glycerol 8.5 mL, aquadest Ad 100 g.

1 Making cream is done by mixing stearic acid, cetyl alcohol and liquid paraffin into porcelain cup 1, while the other substances are in porcelain cup 2. Both are heated at 70°C until completely melted without stirring. After melting, mix the two ingredients (cups 1 and 2) into the hot mortar, and stir quickly using a hot stamper. Slowly add the hot aquabidestilata at 70°C, stirring continuously until a creamy base is formed. After it is ready, wait until it cools, then add the LELC (4% and 5%), and ASC AC (10% and 15%) according to the formula. It should be noted that to obtain a homogeneous cream preparation, stirring must be carried out slowly and continuously. Cream formulations containing 4%, and 5% LELC were made by adding 4, and 5 grams LELC, respectively, to 100 grams of cream base.

In this study there were 6 groups of cream, namely cream 1 to cream 6. Cream 1 is the cream containing 4% LELC. Cream 2 is the cream containing 4% LELC + 10% ASC AC. Cream 3 is the cream containing 4% LELC + 15% ASC AC. Cream 4 is the cream containing 5% LELC. Cream 5 is the cream containing 5% LELC + 10% ASC AC. Cream 6 is the cream containing 5% LELC + 15% ASC AC.

Cream standardization:

Each time the study used leaf extract as an active ingredient in cream, it is necessary to standardize the preparations. Cream standardization is carried out by carrying out pH tests, organoleptic tests, homogeneity tests, and spreadability.²¹

Cream phytochemical levels:

Measurements of flavonoid, phenolic, and tannin levels were carried out on the 6 groups of creams mentioned above. The tool used to measure phytochemical levels is AAS.²¹

Antioxidant activity of cream:

The antioxidant activity of cream containing LELC or combined with ASC AC was conducted using the DPPH method.

Irritation test:

14 Irritation properties testing refers to: Regulation of the Head of 20 Food and Drug Supervisory Agency regarding Guidelin 21 or In Vivo Non-Clinical Toxicity Testing in 2014 (Peraturan Kepala Badan Pengawas Obat dan Makanan tentang Pedoman Uji Toksisitas Nonklinik Secara In Vivo tahun 2014). Irritation activity testing is carried out on preparations with the optimum formula. The test uses a method of observing the appearance of edema and erythema on the skin of test animals. The test animals used were New Zealand male albino rabbits with healthy skin, weighing around 1.5 - 2

kg. The rabbits were placed in individual cages and acclimatized for five days while still being given enough food and drink.

The hair on the rabbit's back is shaved with scissors carefully to avoid wounds on the skin. Parts of the rabbit skin were cleaned, and left for 1 day, so as not to interfere with the testing process. Cream weighing 0.5 grams is smeared on the rabbit's shaved back. The next step is to cover it with a sterile bandage, and attach it with plaster. The exposure time for the cream is 4 hours. After the bandage is removed, the back skin is cleaned with water. Observation of the test response assessed whether there was erythema and edema on the skin of the rabbit's back exposed to the cream. After the covering bandage is removed, observations are made for the next 1 hour. Follow-up observations were carried out at 24, 48 and 72 hours after removing the bandage.

Observation and assessment of the emergence of erythema and edema is expressed with scores of 0, 1, 2, 3, and 4. A score of 0 means that no erythema or edema occurs. A score of 1 means there is very mild erythema or edema (almost invisible). A score of 2 means there is mild erythema (starting to become red), and there is mild edema (red spots starting to appear). A score of 3 means there is moderate erythema (red), and there is moderate edema (reddish spots measuring 1 mm). A score of 4 means there is strong erythema (very reddish = purplish red), and there is strong edema (red spots measuring > 1mm).

Erythema and edema guidelines use scores of 0, 1, 2, 3, and 4. A score of 0 means no erythema or edema occurs. A score of 1 means there is very mild (almost invisible) erythema or edema. A score of 2 means there is mild erythema (starting to turn red) and there is mild edema (red spots starting to appear). A score of 3 means there is moderate erythema (red), and there is moderate edema (reddish spots measuring 1 mm). A score of 4 means there is strong erythema (very reddish = purplish red), and there is strong edema (red spots measuring > 1 mm).

The assessment of the potential for irritation is calculated based on the average value of the emergence of erythema plus the average value of the emergence of edema and then divided by the time period required for the appearance of these two parameters (erythema and edema). A value of 0 - 0.4 means that the preparation has no potential for irritation. A value of 0.5 - 1.9 means that the preparation has little potential for irritation or has the potential for mild irritation. A value of 2 - 4.9 means the preparation has the potential for mild or moderate irritation. A value of 5 - 8 means the preparation has the potential for strong or severe irritation.¹⁹

Table 1. Cream composition

Cream Compound	Cream 1	Cream 2	Cream 3	Cream 4	Cream 5	Cream 6
Stearic acid	16g	16g	16g	16g	16g	16g
Cetyl alcohol	2g	2g	2g	2g	2g	2g
Solid paraffin	10mL	10mL	10mL	10mL	10mL	10mL
Methyl paraben	0.2g	0.2g	0.2g	0.2g	0.2g	0.2g
TEA	7 drops	7 drops	7 drops	7 drops	7 drops	7 drops
Glycerol	8.5mL	8.5mL	8.5mL	8.5mL	8.5mL	8.5mL
Thick extract	4g	4g	4g	5g	5g	5g
Ascorbic acid	0g	10g	15g	0g	10 g	15g
Water	add 100 g	add 100g	add 100g	add 100 g	add 100g	add 100 g

Abbreviations: Cream 1 = the cream containing 4% LELC; Cream 2 = the cream containing 4% LELC + 10% ASC AC; Cream 3 = the cream containing 4% LELC + 15% ASC AC; Cream 4 = the cream containing 5% LELC; Cream 5 = the cream containing 5% LELC + 10% ASC AC; Cream 6 = the cream containing 5% LELC + 15% ASC AC.

Research Ethics:

This research has passed the ethical review number 065/KER/FK/V/2023 from the Research Ethics Commission of the Faculty of Medicine, Trisakti University.

Analysis Method:

The data obtained included pH, spread ability, organoleptics, levels of flavonoid, phenolic, tannin, antioxidant activity, and irritations parameters. To determine changes in levels of flavonoid, phenolic, and tannin due to the addition of ASC AC to cream containing LELC, a linear regression was used. To determine changes in antioxidant activity in cream containing LELC or in combination with ASC AC, a linear regression test was used. The irritation criteria for cream preparations in this study are based on BPOM RI 2014.¹⁹

RESULTS:

Cream composition:

The composition of the cream contains LELC in combination with ASC AC is presented in Table 1.

Standardization of cream containing LELC:

Each time the study used cream containing LELC it is

necessary to standardize the preparation. Cream standardization is carried out by conducting organoleptic tests, pH tests, homogeneity tests, spread ability tests and phytochemical content.

Organoleptic test (shape, smell, and color):

The results of organoleptic tests of cream containing of LELC is presented in Table 2.

Based on the Table 2, the organoleptic test of the cream shows that it is semi-solid, the cream has the characteristic odor of LELC, and is colored like the extract. The cream base has an average pH of 6, while the cream containing LELC or combined with ASC AC has an average pH of 5. Cream base preparations, cream containing LELC or those combined with ASC AC are homogeneous. The cream base preparation has a higher spread ability compared to cream containing of LELC, or those combined with ASC AC.

Flavonoid, phenolic and tannin levels of cream:

Measurement results of flavonoid, phenolic, and tannin levels of cream containing LELC or in combination with ASC AC is presented in Table 3.

Table 2. Organoleptic test results of cream containing LELC or in combination with ASC AC

Test	Cream base	Cream 1	Cream 2	Cream 3	Cream 4	Cream 5	Cream 6
Organoleptic test (shape)	ss	ss	ss	ss	ss	ss	ss
Organoleptic test (smell)	-	Ldo	Ldo	Ldo	Ldo	Ldo	Ldo
Organoleptic test (colour)	yw	sgb	sgb	sgb	sgb	sgb	sgb
pH	6 ± 0	5 ± 0	5 ± 0	5 ± 0	5 ± 0	5 ± 0	5 ± 0
Homogeneity	hmg	hmg	hmg	hmg	hmg	hmg	hmg
Spreadability (100 gr)	5.21 ± 0.41	3.8 ± 0.28	3.9 ± 0.31	3.9 ± 0.32	3.8 ± 0.29	3.9 ± 0.29	3.9 ± 0.28

Abbreviations: Cream 1 = the cream containing 4% LELC; Cream 2 = the cream containing 4% LELC + 10% ASC AC; Cream 3 = the cream containing 4% LELC + 15% ASC AC; Cream 4 = the cream containing 5% LELC; Cream 5 = the cream containing 5% LELC + 10% ASC AC; Cream 6 = the cream containing 5% LELC + 15% ASC AC; ss=semi-solid; Ldo = LELC's distinctive odor; yw = yellowish white; sgb=slightly greenish black; hmg = homogenous.

Table 3. Measurement results of flavonoid, phenolic, and tannin levels of cream

Measurement results	Cream 1 (mean ± SD)	Cream 2 (mean ± SD)	Cream 3 (mean ± SD)	Cream 4 (mean ± SD)	Cream 5 (mean ± SD)	Cream 6 (mean ± SD)
Flavonoid (mg/g)	0.627 ± 0.031	0.615 ± 0.013	0.637 ± 0.018	0.615 ± 0.026	0.601 ± 0.01	0.637 ± 0.018
Phenolic (mg/g)	0.454 ± 0.040	0.481 ± 0.010	0.478 ± 0.010	0.487 ± 0.006	0.485 ± 0.013	0.487 ± 0.006
Tannin (mg/g)	0.870 ± 0.080	0.820 ± 0.070	0.800 ± 0.060	0.860 ± 0.050	0.830 ± 0.050	0.830 ± 0.006

Abbreviation: Cream 1 = the cream containing 4% LELC. Cream 2 = the cream containing 4% LELC + 10% ASC AC. Cream 3 = the cream containing 4% LELC + 15% ASC AC. Cream 4 = the cream containing 5% LELC. Cream 5 = the cream containing 5% LELC + 10% ASC AC. Cream 6 = the cream containing 5% LELC + 15% ASC AC.

Cream containing 4% LELC or combined with ASC AC reduced tannic acid levels ($R^2 = 0.9423$). Regarding the treatment of adding 10% or 15% ASC AC to cream containing 4% LELC did not change the quercetin levels ($R^2 = 0.206$), but was unable to change the gallic acid levels ($R^2 = 0.6575$). Cream containing 5% LELC combined with ASC AC is not too strong in reducing tannins ($R^2 = 0.75$). Regarding the treatment of adding 10% or 15% ASC AC to cream containing 5% LELC did not change the flavonoids levels ($R^2 = 0.3674$), but was unable to change the phenolic levels ($R^2 = 0$).

Antioxidant activity of cream containing 4% LELC:

Determination of IC_{50} in the cream containing 4% LELC as follows: % DPPH radical inhibition = [(Absorbance control - Absorbance of test material): Absorbance control] x 100 %. Absorbance control (absorbance of test material) = 0.7757; absorbance of test material for 10, 20, 40, 60, and 80 ppm are 0.4184, 0.3693, 0.3391, 0.3318, and 0.2568 respectively. Result of % inhibition of DPPH radical 10, 20, 40, 60, and 80 ppm are 46.06%, 52.39%, 56.28%, 57.22%, and 66.89% respectively.

19 sample concentration and percentage inhibition are plotted on the x and y axes respectively in the linear regression equation. This equation is used to determine 7 IC_{50} value of each sample expressed by a y value of 50 and the x value that will be obtained as IC_{50} . Regression equation to calculate IC_{50} in cream containing 4% LELC is $y = 4.649x + 41.821$. The y value is replaced with 50 (determination from IC_{50}) $\rightarrow 50 = 4.649x + 41.821 \rightarrow x = 1.759303$ ppm. The x value = is the IC_{50} value = 1.759303 ppm. IC_{50} of cream containing 4 % LELC = 1.759303 ppm.

Antioxidant activity of cream containing 4% LELC + 10% ASC AC:

Determination of IC_{50} in the cream containing 4% LELC + 10% ASC AC as follows: % DPPH radical inhibition = [(Absorbance control - Absorbance of test material) : Absorbance control] x 100 %. Absorbance control (absorbance of test material) = 0.7757; absorbance of test material for 2, 4, 6, 8, and 10 ppm are 0.4131, 0.3640, 0.3179, 0.3076, and 0.2488 respectively. Result of % inhibition of DPPH radical 2, 4, 6, 8, and 10 ppm are 46.75%, 53.07%, 59.02%, 60.34%, and 67.97% respectively. Linear regression equation $\rightarrow y = 4.971x + 42.517$. The y value is replaced with 50 (determination from IC_{50}) $\rightarrow 50 = 4.971x + 42.517 \rightarrow x = 1.505330$ ppm. The x value = the IC_{50} value = 1.505330ppm. IC_{50} of cream containing 4% LELC + 10% ASC AC = 1.505330ppm.

Antioxidant activity of cream containing 4% LELC+ 15% ASC AC:

Determination of IC_{50} in the cream containing 4%

LELC+ 15% ASC AC as follows: %DPPH radical inhibition = [(Absorbance control - Absorbance of test material): Absorbance control] x 100%. Absorbance control (absorbance of test material) = 0.7757; absorbance of test material for 2, 4, 6, 8, and 10 ppm are 0.3949, 0.3518, 0.3459, 0.3019, and 0.2468 respectively. Result of % inhibition of DPPH radical 2, 4, 6, 8, and 10 ppm are 49.09%, 54.65%, 55.41%, 61.18%, and 68.18% respectively. Linear regression equation $\rightarrow y = 4.461x + 44.299$. The y value is replaced with 50 (determination from IC_{50}) $\rightarrow 50 = 4.461x + 44.299 \rightarrow x = 1.277964$ ppm. The x value = is the IC_{50} value: = 1.277964 ppm. IC_{50} of cream containing 4% LELC + 15% ASC AC = 1.277964 ppm.

Antioxidant activity of cream containing 5% LELC:

Determination of IC_{50} in the cream containing 5% LELC as follows: % DPPH radical inhibition = [(Absorbance control - Absorbance of test material): Absorbance control] x 100 %. Absorbance control (absorbance of test material) = 0.7757; absorbance of test material for 2, 4, 6, 8, and 10 ppm are 0.4315, 0.3556, 0.3279, 0.3070, and 0.2575 respectively. Result of % inhibition of DPPH radical 2, 4, 6, 8, and 10 ppm are 44.37%, 54.16%, 57.73%, 60.43%, and 66.81% respectively. Linear regression equation $\rightarrow y = 5.115x + 41.355$. The y value is replaced with 50 (determination from IC_{50}) $\rightarrow 50 = 5.115x + 41.355 \rightarrow x = 1.690127$ ppm. The x value = the IC_{50} value = 3.365619 ppm. IC_{50} of cream containing 5% LELC= 1.690127 ppm.

Antioxidant activity of cream containing 5% LELC + 10% ASC AC:

Determination of IC_{50} in the cream containing 5% LELC + 10% ASC AC as follows: % DPPH radical inhibition = [(Absorbance control - Absorbance of test material) : Absorbance control] x 100 %. Absorbance control (absorbance of test material) = 0.7757; absorbance of test material for 2, 4, 6, 8, and 10 ppm are 0.4021, 0.3782, 0.3197, 0.3078, and 0.2628 respectively. Result of % inhibition of DPPH radical 2, 4, 6, 8, and 10 ppm are 48.17%, 51.24%, 58.78%, 60.31%, and 66.12% respectively. Linear regression equation $\rightarrow y = 4.497x + 43.433$. The y value is replaced with 50 (determination from IC_{50}) $\rightarrow 50 = 4.497x + 43.433 \rightarrow x = 1.460306$ ppm. The x value = the IC_{50} value = 1.460306 ppm. IC_{50} of cream containing 5% LELC + 10% ASC AC = 1.460306 ppm.

Antioxidant activity of cream containing 5% LELC + 15% ASC AC:

Determination of IC_{50} in the cream containing 5% LELC + 15% ASC AC as follows: % DPPH radical inhibition = [(Absorbance control - Absorbance of test material) : Absorbance control] x 100 %. Absorbance control (absorbance of test material) = 0.7757; absorbance of test material for 2, 4, 6, 8, and 10 ppm are 0.4148,

0.3447, 0.3052, 0.2805, and 0.2310 respectively. Result of % inhibition of DPPH radical 2, 4, 6, 8, and 10 ppm are 46.52%, 55.56%, 60.65%, 63.83%, and 70.22% respectively. Linear regression equation $\rightarrow y = 5.567x + 42.655$. The y value is replaced with 50 (determination from IC₅₀) $\rightarrow 50 = 5.567x + 42.655 \rightarrow x = 1.319382$ ppm. The x value = the IC₅₀ value = 1.319382 ppm. IC₅₀ of cream containing 5% LELC + 15% ASC AC = 1.319382 ppm.

Based on the phytochemical profile data of cream containing LELC or a combination with ASC AC, it shows that the addition of ASC AC to cream containing 4% or 5% LELC decreases IC₅₀, meaning it increases antioxidant activity. Because cream containing 4% or 5% LELC combined with ASC AC has an IC₅₀ value <50 ppm, its antioxidant activity is strong. The above data show that the addition of ASC AC to the cream containing 4% or 5% LELC decreases IC₅₀, meaning it increases antioxidant activity. Since the cream has an IC₅₀ value < 50 ppm, it can be stated that its antioxidant activity is strong.

Irritation test:

The results of shaving, and testing preparation for cream containing 5% LELC + 15% ASC AC which was exposed for 4 hours, and covered with a bandage is presented in Figure 1.

The results of the irritation test of cream containing 5% LELC + 15% ASC AC are presented in Figure 2.

The results of this study show that no rabbits died due to

skin irritation tests.



Figure 1. The results of shaving, and testing preparation for cream containing 5% LELC + 15% ASC AC which was exposed for 4 hours, and covered with a bandage.

DISCUSSION:

Organoleptic test results of cream containing 4% and 5% LELC and the combination with 10% or 15% ASC AC shows a semi-solid form, has a characteristic odor of LELC, blackish green color, pH is around 5, homogeneous, ability to spread ranges from 3.8 – 3.9 cm. The organoleptic test results in this study demonstrated that the results were the same as the results of our previous study.^{1,21} This is due to the cream component of LELC similar or alike. This is because the components of cream containing LELC are similar or identical.

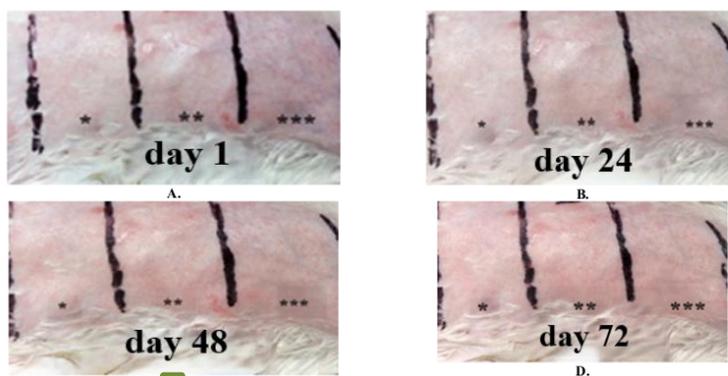


Figure 2. Irritation test results. A=After 4 hours of exposure to the tested cream, it was then washed, then observed 1 hour after washing. B=After 4 hours of exposure to the tested cream, it was then washed, then observed 24 hours after washing. C=After 4 hours of exposure to the tested cream, it was then washed, then observed 48 hours after washing. D= After 4 hours of exposure to the tested cream, it was then washed, then observed 72 hours after washing. *=Application site of cream base. **=Negative control without smearing. ***=Application site of cream (5% LELC + 15% ASC AC).

Previous research results have demonstrated that *L. camara* Linn. is a wild plant that can be used as a source of bioactive substance,^{3,24} such as quercetin, gallic acid and tannic acid.²⁵ A previous study showed that levels of flavonoids in the LELC was 243.89±1.30mg Quercetin Equivalent/gram.²⁶ In addition to bioactive substances, it should be noted that *L. camara* Linn. contains heavy metals resulting from the accumulation of absorbed nutrients.²⁷ There are several factors that influence flavonoid levels, including temperature. Cream storage temperature has been demonstrated to change quercetin levels, thereby affecting antibacterial activity.²¹ Based on the facts in this study that ASC AC combined with 4% LELC in cream reduced tannin levels ($R^2 = 0.9423$). The addition of ASC AC did not change flavonoid levels ($R^2 = 0.206$), but was not able to change phenolic levels ($R^2 = 0.6575$).⁶ The research results can be applied to maintain levels of quercetin, gallic acid and tannic acid¹⁵ in preparations, especially cream preparations. The results of this study are important and in accordance with previous studies that demonstrated the importance of measuring ascorbic acid levels in herbal preparations.^{28,29,30}

Our suggestion above is based on the fact that cream preparations that are stored for a certain period of time can experience changes in flavonoid (quercetin as a flavonoids equivalent) levels or in other words they are unstable.¹ Significant changes in flavonoid levels in preparations due to the influence of storage temperature have also been demonstrated by previous studies.²¹ The stability of preparations containing LELC needs to be maintained so that the flavonoid, phenolic and tannin contents remain stable. It is hoped that preparations containing flavonoids, phenolics, and tannins will be stable, so that they function optimally as antibacterials and skin wound healers. This is in accordance with the results of previous research on the importance of extract optimization.³¹

We demonstrated that ASC AC added to cream containing 4% LELC had the effect of changing quercetin levels, but had less effect on changing levels of gallic acid, and tannic acid. Therefore, we recommend that to maintain the levels of quercetin, gallic acid, and tannic acid in the preparation it is necessary to combine it with other compounds besides ASC AC. ASC AC combined with 5% LELC in the cream is not too strong in reducing tannic acid levels ($R^2 = 0.75$). Beside that, the addition of ASC AC did not change quercetin levels ($R^2 = 0.3674$), but was not able to change gallic acid levels ($R^2 = 0$). Based on this data, we decided to choose cream containing 5% LELC combined with ASC AC compared to cream containing 4% LELC which is being developed as an antibacterial and skin wound healer. Our choice of cream containing

leaf extract of *L. camara* Linn. in combination with ASC AC is in line with the statement that ASC AC has the potential to fight various types of diseases in humans. It was further stated that ASC AC acts as an enzyme cofactor that is needed in various physiological functions.^{32,33}

The data above shows that the addition of ASC AC to cream containing 4% and 5% of LELC reduces IC_{50} , meaning it increases antioxidant activity. Because 4% and 5% of LELC or combined with ASC AC, has an IC_{50} value of < 50ppm, its antioxidant activity is strong. The results of this study are in line with⁶ concept that IC_{50} is related to antioxidant activity.³⁴ The results of other studies demonstrated that the IC_{50} of the methanol extract of *L. camara* Linn. 204.3µg/mL,³⁵ while *C. racemosa* extract has an IC_{50} value of 159.8 ppm.³⁶ As a comparison, the IC_{50} for *D. longan* seeds extract is 32.13 µg/mL, while *D. longan* peels extract is 23.50µg/mL.³⁷ These results are certainly different from the results of our research, because the samples measured by IC_{50} were different. Different results regarding antioxidant activity have been demonstrated in previous studies.^{38,39, 40}

Skin irritation test in the development of cream containing LELC combined with ASC AC is still an area of intensive research. The irritating effect of the preparation can be evaluated not only on the skin of experimental animals, but can also be carried out on reconstructions of human epidermis and corneal epithelium.⁴¹ Applying the cream to the mice's backs was carried out in a closed manner using sterile gauze, bandages and non-irritating plaster, thus ensuring and helping absorption of the test material, as well as avoiding environmental influences.⁴² The bandage we used in this study is easy to buy on the market, but can be used well. The choice of bandage is in accordance with the conclusions of previous research.⁴³ During the observation in this research, no erythema or edema was found due to exposure of cream containing 5% LELC+ 15% ASC AC, and it was also shown that the cream base was not irritating to the skin.

In this study it was demonstrated that cream containing 5% leaf extract of *L. camara* Linn. combined with 15% ASC AC did not irritate the skin. These data make it clear that the components in the cream are not irritating to the skin. Based on the results of the irritation test, it seems that cream containing LELC+ 15% ASC AC could be an alternative to be developed as a topical preparation for skin wounds. We hope that other research will be produced so that it can be used as a basis for future research regarding the development of cream containing LELC.

LIMITATIONS:

Although we have demonstrated standardization of cream containing LELC combined with ASC AC, assessed IC₅₀, and skin irritation tests in rabbits, we have not been able to test its antibacterial activity. Testing the antibacterial activity of cream containing LELC combined with ASC AC still needs to be carried out. The basis for developing cream containing LELC requires data on levels of quercetin, gallic acid, tannic acid, IC₅₀, and antibacterial activity.

CONCLUSION:

The results of organoleptic tests on creams containing LELC or combined with 10% or 15% ASC AC showed a semi-solid form, a distinctive odor leaf extract of *L. camara* Linn., blackish green color, pH around 5, homogeneous, spreadability ranging from 3.8 - 3.9 cm. IC₅₀ of cream 1 = 1.759 ppm, cream 2 = 1.5053 ppm, cream 3 = 1.278 ppm, cream 4 = 1.690 ppm, and cream 5 = 1.460 ppm, and cream 6 = 1.319 ppm.

During the observation, no erythema or edema to the skin was found due to exposure of cream containing 5% LELC+ 15% ASC AC. IC₅₀ of cream containing 5% LELC+ 15% ASC AC = 1.319 ppm, does not irritate the skin. Based on the results of the irritation test, it seems that cream containing 5% LELC+ 15% ASC AC could be an alternative to be developed as a topical preparation for skin wounds. We hope that other research will be produced so that it can be used as a basis for future research regarding the development of cream containing LELC.

ORCID ID:

David Tjahyadi 0000-0003-1154-193x; Edy Parwanto=0000-0002-0797-6925; Hosea Jaya Edy=0000-0003-1522-3437; Joey Joshua Vidova Tjahyadi=0000-0002-6764-1123; Laurentia Gabrielle=0000-0002-1310-6395; Ashaolu Victoria Oladimeji=0000-0001-8022-6533; Seçil Karahüseyn=0000-0002-3515-2974

CONFLICT OF INTERESTS:

All authors declare that no conflict of interest.

FUNDING SOURCE:

Publication of this manuscript is supported by funding number 0802/PUF/FK/2023-2024 Faculty of Medicine, Universitas Trisakti, Jakarta, Indonesia.

ETHICAL STATEMENT:

The ethical clearance number 058/KER/FK/IU2024 for this research was obtained from the Research Ethics Commission, Faculty of Medicine, Universitas Trisakti, Jakarta, Indonesia.

ACKNOWLEDGMENTS:

We would like to thank the Leaders and Staff of the Pharmacy Laboratory, Pharmacy study program, Faculty of Mathematics and Natural Sciences, Universitas Sam Ratulangi, Manado for the opportunity given to us so that this research could be carried out.

AUTHORS CONTRIBUTIONS:

EP and DT=Schemed and designed experiment. EP, HJE, DV, SK, AVO=data collecting, analysis, and interpretation of the results. EP, HJE, JJNT, LG=images review and processing. EP, DV, SK, HJE=writing of the manuscript. All author's=reviewing and approved the final manuscript.

ABBREVIATION:

LELC = leaf extract of *Lantana camara* Linn.; ASC AC = ascorbic acid; IC₅₀ = half-maximal inhibitory concentration; DPPH = 2,2-Diphenyl-1-picrylhydrazyl; TEA = triethanolamine; pH = potential of hydrogen; AAS = atomic absorbance spectrophotometric; ppm = parts per million; λ = wave length; nm = nano meter; R = replican; ss = semi -solid; Ldo = LELC's distinctive odor; yw = yellowish white; sgb = slightly greenish black; hmg = homogeneous; SD = standard deviation; g = gram; mg/g = milligram per gram; µg/mL = microgram per milli liter.

REFERENCES:

1. Parwanto MLE, Tjahyadi D, Edy HJ, Wratsangka R, Guyansyah A. Stability of *Lantana camara* Linn. leaf extract cream base on the level of Fe, Mg, Zn and quercetin equivalent of flavonoid. *IJPR*. 2021; 13(1): 3069-3086. <https://doi.org/10.31838/ijpr/2021.13.01.441>
2. Ganjewala D, Sam S, Khan KH. Biochemical compositions and antibacterial activities of *Lantana camara* plants with yellow, lavender, red and white flowers. *Eur Asian J BioSci*. 2009; 3: 69-77.
3. Barreto FS, Sousa EO, Campos AR, Costa JGM, Rodrigues FFG. Antibacterial activity of *Lantana camara* Linn and *Lantana montevidensis* brigs extracts from Cariri-Ceará, Brazil. *J Young Pharm*. 2010; 2 (1): 42- 44.
4. Badakhshan MP, Sasidharan S, Rameshwar NJ, Ramanathan S. A comparative study: antimicrobial activity of methanol extracts of *Lantana camara* various parts. *Pharmacog Resch*. 2009; 1 (6): 348-351.
5. Suryati, Santoni A, Arifin B, Ferdinal N, Salim E, Amelia A, et al., Analysis of chemical content, cytotoxic and anti-bacterial activity essential oil of *Lantana Camara* Linn leaves from various regions. *Molekul*. 2022; 17(2): 156-164. <https://doi.org/10.208841/jm.2022.17.2.5143>. Available from: <http://jos.unsoed.ac.id/index.php/jm/article/view/5143>
6. Munugesan S, Senthilkumar N, Suresh Babu D, Rajasugunasekar D. Chemical constituents and toxicity assessment of the leaf oil of *Lantana camara* Linn from Tamilnadu regions. *Asian J Plant Sci Resch*. 2016; 6(3): 32-42.
7. Edy HJ. 2012. Formula sabun opaque anti-bakteri ekstrak daun tembelekan (*Lantana camara* L.) terhadap *Staphylococcus epidermidis*. FMIPA, Progdí Farnasi UNSRAT, Manado, Sulawesi Utara, Indonesia.
8. Parwanto EML, Senjaya H, Edy HJ. Formulasi salep antibakteri ekstrak etanol daun *L. camara* (*Lantana camara* L.). *Pharmacon*. 2013; 2 (3): 104 – 108.
9. Parwanto MLE. Efficacy of *Lantana camara* Linn. leaf extracts ointment on dermal wound healing were infected with *Staphylococcus epidermidis*. *Int J Basic Clin Pharmacol*. 2017; 6: 503- 510. DOI: <http://dx.doi.org/10.18203/2319-2003.ijbcp20170457>
10. Martemucci G, Costagliola C, Mariano M, D'andrea L, Napolitano P.

- D'Alessandro AG. Free radical properties, source and targets, antioxidant consumption and health. *Oxygen* 2022; 2: 48-78. <https://doi.org/10.3390/oxygen202006>. Available from: <https://www.mdpi.com/2673-9801/2/2/6>
11. Kurutas EB. The importance of antioxidants which play the role in cellular response against oxidative/nitrosative stress: current state. *Nutr J* 2015, 15, 71. <https://doi.org/10.1186/s12937-016-0186-5>
 12. Ghozaly MR, Safitri EB. Uji aktivitas antioksidan ekstrak N-heksan, etil asetat dan metanol dari varietas umbi wortel (*Daucus Carota* L.) Dengan Metode DPPH (1,1-Difenil-1-Pikrihidrazil). *Sainstech Farna* 2016; 9(2): 13-18.
 13. Kloteo JR, Fanou BA, Agbodjento E, Houchou A, Fah L, Dougnon V, et al. Antifungal activity of *Cimicum gratissimum* L., *Lantana camara* L. & *Pteleopsis suberosa* Engl. & Dies used in the treatment of vulvovaginal candidiasis in Benin. *Future J Pharm Sci* 2021; 7: 237-1-11. <https://doi.org/10.1186/s43094-021-00383-4>
 14. Sari FN, Sari Y. Antioxidant activity test on Indonesian typical fruit peel waste uji aktivitas antioksidan pada limbah kulit buah-buahan khas Indonesia. *JAF* 2023; 8(1): 123 - 131
 15. Prasetyo E, Kharomah NZW, Rahayu TP. Uji aktivitas antioksidan menggunakan metode DPPH (2,2-difenil-1-pikrihidrazil) terhadap ekstrak etanol kulit buah durian (*Durio zibethinus* L.) dari Desa Alasmalang Kabupaten Banyuwangi. *Jurnal Pharmascience*. 2021; 08 (01): 75-82
 16. Li Z, Teng J, Lyu Y, Hu X, Zhao Y, Wang M. Enhanced antioxidant activity for apple juice fermented with *Lactobacillus plantarum* Atcc14917. *Molecules* 2019; 24(1): 1-12. doi: 10.3390/molecules24010051.
 17. Makiyah A, Tresnayanti S. Uji toksisitas akut yang diukur dengan penentuan ld50 ekstrak etanol umbi iles-iles (amorphophallus variabilis bl.) pada tikus putih strain wistar. *Majalah Kedokteran Bandung* 2017; 49 (3): 145-155. DOI: <https://doi.org/10.15295/mkb.v49n3.1130>. <https://jurnal.fk.unpad.ac.id/index.php/mkb/article/view/1130>
 18. Reddy N, Lynch B, Gujral J, Kamik K. Alternatives to animal testing in toxicity testing: Current status and future perspectives in food safety assessments. *Food Chem Toxicol*. 2023; 179: 113944. doi: 10.1016/j.fct.2023.113944. Epub 2023 Jul 14. PMID: 37453475]
 19. BPOM RI (Badan Pengawasan Obat dan Makanan, Republik Indonesia), 2014. Pedoman uji toksisitas nonklinik secara in vivo, Peraturan Kepala Badan Pengawas Obat dan Makanan Republik Indonesia No 7 Tahun 2014.
 20. Samirana PO, Pratiwi DMN, Musdiyuni NW, Andhini DAA, Mahendra AN, Yadnya-Putra AAGR. Uji pendahuluan toksisitas akut dermal sediaan salep ekstrak etanol 70% daun binahong (*Anredera scandens* (L.) Moq.) terstandar. *Jurnal Kimia*. 2018; 12 (2): 180-186. DOI: 10.24843/JCHEM.2018.v12.i02.p14
 21. Parwanto E, Amalia H, Tjahyadi D, Edy HJ, Oladimeji AV, Tjahyadi JIV, et al. Effect of extreme temperature storage on flavonoids levels and antibacterial activity of *lantana camara* linn. leaf extract cream. *Res J Pharm Technol*. 2023; 16(5): 2419-6. doi: 10.52711/0974-360X.2023.00399
 22. Ingawale GS, Goswami-Giri AS. Isolation and characterization of bioactive molecule from *Lantana camara*. *Asian J Research Chem* 2014; 7(3): 339-344.
 23. Punasiya R, Choudhary J, Pillai S. Analgesic activity of ethanolic extract of flower of *Lantana camara*. *Res. J. Pharm. Dosage Form. & Tech.* 2017; 9(4): 180-182. doi: 10.5958/0975-4377.2017.00029.5
 24. Pradhan S, Pattnaik S. Phytochemical screening of components present floral essential oil of an indigenous variety of *Lantana camara*, Linn (Verbenaceae). *Res. J. Pharmacognosy and Phytochem.* 2017; 9(4): 203-209. doi: 10.5958/0975-4385.2017.00037.1
 25. Parwanto E, Tjahyadi D, Amalia H, Edy HJ, Oladimeji AV, Tjahyadi JIV, et al. The potential of *lantana camara* linn. as a source of quercetin, gallic acid, and tannic acid. *J Hunan University (Natural Sciences)* 2023; 50 (5): 112-123. <https://doi.org/10.55463/issn.1674-2974.50.5.12>.
 26. Mansoori A, Singh N, Dubey SK, Thakur TK, Alkan N, Das SN, et al. Phytochemical characterization and assessment of crude extracts from *lantana camara* l. for antioxidant and antimicrobial activity. *Front Agron* 2020; 2(582268): 1-14. doi: 10.3389/fagro.2020.582268
 27. Awasthi A. Determination of bio-accumulated Cd, Cr, Cu, Ni and Pb in a wild plant *Lantana camara* L. Verbenaceae, grown on waste dump site and assessment of its phyto-extraction potential for studied metals. *AJRC*. 2023; 16(4): 271-6. doi: 10.52711/0974-4150.2023.00045
 28. Hima V, Rubesh Kumar S, Duganath N, Devanna N. A novel validated stability indicating chromatographic method for the simultaneous estimation of ascorbic acid and gallic acid in the ayurvedic capsule dosage form of amla by UFLC. *Asian J. Research Chem*. 2013; 6(9): 826-831.
 29. Diab DA, Asaad NA. Comparative analysis of ascorbic acid content and antioxidant activity of some fruit juices in Syria. *Research J. Pharm. and Tech.* 2018; 11(2): 515-520. doi: 10.5958/0974-360X.2018.00095.1
 30. Anil S, Gurnav, Ajit S, Kulkarni. Efavirenz cocrystals with Ascorbic acid: A strategy for polymorphic modification and improvement of dissolution properties. *Research J Pharm and Tech.* 2024; 17(1): 213-1. doi: 10.52711/0974-360X.2024.00034
 31. Amina BB, Roukia H, Mahfoud HA, Ahlem T, Sabrina B, Chahrazed B, et al. Optimization of Extraction conditions of the Polyphenols, Flavonoids and the Antioxidant activity of the plant *Ammosperma cinereum* (Brassicaceae) through the Response Surface Methodology (RSM). *Asian J. Research Chem.* 2020; 13(1): 01-06. doi: 10.5958/0974-4150.2020.00001.2
 32. Ali A, Riaz S, Khalid W, Fatima M, Mubeen U, Babar Q, et al. Potential of ascorbic acid in human health against different diseases: an updated narrative review. *Int J Food Properties* 2024; 27(1): 493-515. <https://doi.org/10.1080/10942912.2024.2327335>
 33. Rajaram S, Natham R. Enhancement of rifampicin bioavailability by immune enhancing nutrient (ascorbic acid) as chitosan nanoparticles for tuberculosis therapy. *Research J Pharm and Tech* 2020; 13(12): 5924-5928. doi: 10.5958/0974-360X.2020.01034.3
 34. Caldwell GW, Yan Z, Lang W, Masucci JA. The IC (50) concept revisited. *Curr Top Med Chem*. 2012; 12(11): 1282-90. doi: 10.2174/156802612800672844.
 35. Boddupally M, Rani SS. In vitro antioxidant and in vivo hepatoprotective activity of *lantana camara* in paracetamol-induced liver injury in experimental rats. *IJCS* 2023; 24(5): 656-663.
 36. Sirait SM, Rosita T, Rahmatia L. Formulation and evaluation of sea grape (*Caulerpa racemosa*) extract as hand cream and its antioxidant activity test. *JKR* 2022; 7(1): 47 - 56.
 37. Muthukumarasamy R, Ilyana A, Fithriyanni NA, Najihah NA, Asyiqin N, Sekar M. Formulation and evaluation of natural antioxidant cream comprising methanolic peel extract of *Dimocarpus longan*. *IJPCR*. 2016; 8(9): 1305-1309.
 38. Jenifer P, Balakrishnan CP, Pillai SC. In-vitro antioxidant activity of marine red algae *Gracilaria foliifera*. *Asian J Pharm Tech.* 2017; 7(2): 105-108. doi: 10.5958/2231-5713.2017.00018.6
 39. Hasni S, Khelil A, Habita S, Bireche K, Mahcene Z, Boual Z, et al. The effect of the Feeding system on the Antioxidant activity of Camel urine. *Asian Journal of Pharmaceutical Research* 2022; 12(4): 261-6. doi: 10.52711/2231-5691.2022.00042
 40. Ashfaq MH, Siddique A, Shahid S. Antioxidant activity of Cinnamon zeylanicum: (A Review). *Asian J Pharmaceut Resch.* 2021; 11(2): 106-6. doi: 10.52711/2231-5691.2021.00021
 41. Zerbini N, Sommatiss S, Maccario C, Di Francesco S, Capillo MC, Grimaldi G, et al. A practical approach for the in vitro safety and efficacy assessment of an anti-ageing cosmetic cream enriched with functional compounds. *Molecules* 2021; 26(24): 7592: 1-12. doi: 10.3390/molecules26247592.
 42. Kick BL, Gumber S, Wang H, Moore RH, Taylor DK. Evaluation of 4 presurgical skin preparation methods in mice. *J Am Assoc Lab Anim Sci* 2019; 58(1): 71-77. doi: 10.30802/AALAS-18-000047.
 43. Bhojar SD, Malhotra K, Madke B. Dressing materials: a comprehensive review. *J Cutan Aesthet Surg.* 2023; 16(2): 81-89. doi: 10.4103/JCAS.JCAS_163_22.

Cream of Lantana camara Linn. Enriched with Ascorbic Acid does not Irritate the Skin

ORIGINALITY REPORT

14%

SIMILARITY INDEX

12%

INTERNET SOURCES

7%

PUBLICATIONS

4%

STUDENT PAPERS

PRIMARY SOURCES

1	www.karyailmiah.trisakti.ac.id Internet Source	2%
2	Submitted to Universitas Muhammadiyah Surakarta Student Paper	1%
3	dergipark.org.tr Internet Source	1%
4	repository.ubaya.ac.id Internet Source	1%
5	www.ijbcp.com Internet Source	1%
6	www.jonuns.com Internet Source	1%
7	Submitted to Universitas Sam Ratulangi Student Paper	1%
8	Shih-Kuang Chiang, Shih-Min Lai, Tsung-Ming Hu. "Social cognition and apathy between two cognitive subtypes of schizophrenia: Are there the same or different profiles?", Schizophrenia Research: Cognition, 2023 Publication	1%
9	Brice Armand Fanou, Jean Robert Klotoe, Victorien Dougnon, Phénix Assogba et al. "Efficacy of Extracts of Cyathillium Cinereum, Khaya senegalensis and Lippia multiflora on Candida Strains Isolated From Urine Samples	1%

in Benin (West Africa)", *Frontiers in Tropical Diseases*, 2022

Publication

10 Oladele Abiodun Olaniran, Joseph Adetunji Elegbede, Agbaje Lateef, Timothy Abiodun Adebayo et al. "Anti-cockroach Activities of Biosynthesized Silver Nanoparticles using *Petiveria alliacea* Extracts", Springer Science and Business Media LLC, 2024

Publication

11 www.contaipolytechnic.com <1 %

Internet Source

12 e-journal.unair.ac.id <1 %

Internet Source

13 s3.amazonaws.com <1 %

Internet Source

14 www.rjptonline.org <1 %

Internet Source

15 David Tjahyadi, Edy Parwanto, Sisca Sisca, Endrico Xavierees et al. "Effects of low-dose filtered kretek cigarette smoke on bronchial smooth muscle in male Sprague-Dawley rats", *Universa Medicina*, 2023

Publication

16 Rahmi Amtha, Ferry Sandra, Rosalina Tjandrawinata, Indrayadi Gunardi, Anggraeny Putri Sekar Palupi. "Current Research and Trends in Dental and Medical Technology", CRC Press, 2025

Publication

17 ejurnal.ung.ac.id <1 %

Internet Source

18 f1000research-files.f1000.com <1 %

Internet Source

19	jurnal.unpad.ac.id Internet Source	<1 %
20	Rizka Qurrota A'yun, Uswatun Hasanah, Hamam Hadi, Mustofa Mustofa, Eva Nurinda, Yulinda Kurniasari, Veriani Aprilia. "Acute Toxicity Study of Porang (<i>Amorphophallus oncophyllus</i>) Flour Macerated with <i>Strobilanthes crispus</i> in Wistar Rats", Open Access Macedonian Journal of Medical Sciences, 2021 Publication	<1 %
21	www.scribd.com Internet Source	<1 %
22	jifi.farmasi.univpancasila.ac.id Internet Source	<1 %
23	www.ukessays.com Internet Source	<1 %
24	fjps.springeropen.com Internet Source	<1 %
25	Jorge Macridachis, Laura Bayés-García, Teresa Calvet. "Temperature-Driven Changes in the Polymorphism, Microstructure and Thermal Properties of Cocoa Butter/Shea Butter Stearin Blends", Food Biophysics, 2025 Publication	<1 %
26	docplayer.com.br Internet Source	<1 %
27	www.mskcc.org Internet Source	<1 %
28	www.researchgate.net Internet Source	<1 %
29	journals.ums.ac.id Internet Source	<1 %

30 pmc.ncbi.nlm.nih.gov

Internet Source

<1%

31 www.scilit.net

Internet Source

<1%

Exclude quotes Off

Exclude matches < 10 words

Exclude bibliography On

RESEARCH ARTICLE

Cream of *Lantana camara* Linn. Enriched with Ascorbic Acid does not Irritate the Skin

**David Tjahyadi^{1*}, Edy Parwanto², Hosea Jaya Edy³, Joey Joshua Vidova Tjahyadi⁴,
Laurentia Gabrielle⁴, Ashaolu Victoria Oladimeji⁵, Seçil Karahüseyin⁶**

¹Department of Histology, Faculty of Medicine, Universitas Trisakti, Indonesia.

²Department of Biology, Faculty of Medicine, Universitas Trisakti, Indonesia.

³Study Program of Pharmacy, Faculty of Math and Natural Sciences, Universitas Sam Ratulangi, Indonesia.

⁴Medical Education Program, Faculty of Medicine, Universitas Trisakti, Indonesia.

⁵Department of Chemistry, Loyola Institute of Frontier Energy, Loyola College, Chennai, India.

⁶Department of Pharmacognosy, Faculty of Pharmacy, Çukurova Üniversitesi, Turkey.

*Corresponding Author E-mail: davesaboch@trisakti.ac.id

ABSTRACT:

Lantana camara Linn. has potential as an anti-bacterial. The results of our preliminary research show that changes in levels of quercetin, gallic acid, and tannin affect the antibacterial effectiveness of *E. coli*, *S. aureus*, and *P. aeruginosa*. In addition, changes in the levels of Fe, Zn, quercetin, gallic acid and tannin in the preparations mentioned above are caused by free radicals. Free radicals can be counteracted with antioxidants, for example ascorbic acid. The aim of this research is to determine the effect of adding 10% or 15% ascorbic acid to the *L. camara* Linn. leaf extract cream preparation on antioxidant activity. Apart from that, we also carry out cream standardization and irritation tests. In this study there were 6 groups of cream, namely cream 1 to cream 6. Cream 1 is the cream containing 4% LELC. Cream 2 is the cream containing 4% LELC+10% ASC AC. Cream 3 is the cream containing 4% LELC+15% ASC AC. Cream 4 is the cream containing 5% LELC. Cream 5 is the cream containing 5% LELC +10% ASC AC. Cream 6 is the cream containing 5% LELC+15% ASC AC. Organoleptic test results of cream in these studies shows a semi-solid form, has a characteristic odor of LELC, blackish green color, pH around 5, homogeneous, spread ability ranges from 3.8 – 3.9cm. IC₅₀ of cream containing 5% LELC+15% ASC AC=2.64ppm. Cream containing 5% LELC+15% ASC AC contains flavonoids, phenolics, and tannins of 0.637±0.018mg/g; 0.487±0.005mg/g; and 0.83±0.06 mg/g, respectively. During the observation, no erythema or edema was found due to exposure to cream containing 5% LELC+15% ASC AC. As a control, the cream base also did not irritate the skin. Thus, the cream containing 5% LELC was proven to be non-irritating to the skin.

KEYWORDS: *Lantana camara* Linn., Cream, Quercetin, Gallic acid, Tannin, Ascorbic acid, Skin irritation.

INTRODUCTION:

Lantana camara Linn. belongs to the Verbenaceae family. *L. camara* Linn., known locally as tembelean, is a wild plant that grows without any special care.¹ *L. camara* Linn. has potential as an anti-bacterial.^{2,3,4} Previous studies have shown that the phytochemical composition of *L. camara* Linn. includes phenols, essential oils, flavonoids, proteins, carbohydrates, and alkaloids. In addition, glycosides iridoid glycosides, phenyl ethanoids, glycosides, oligosaccharides, quinine, saponins, steroids, triterpenes, tannins, and sesquiterpenoids are phytochemical components of *L. camara* Linn.⁵ The results of other research show that

Received on 09.11.2024 Revised on 02.05.2025
Accepted on 07.08.2025 Published on 08.11.2025
Available online from November 13, 2025
Research J. Pharmacy and Technology. 2025;18(11):5161-5169.
DOI: 10.52711/0974-360X.2025.00745
© RJPT All right reserved

This work is licensed under a Creative Commons Attribution-NonCommercial-ShareAlike 4.0 International License. Creative Commons License.



LELC contains alkaloids, flavonoids, tannins and triterpenoids.⁶

In addition, it is also shown that the extract of *L. camara* Linn. which is formulated in soap which has an antibacterial effect against *S. epidermidis*. Extract of *L. camara* Linn. 4, 6, 8 and 10% showed inhibition against *S. Epidermidis*.⁷ Apart from that, tests have also been carried out on the ointment containing leaves extract of *L. camara* Linn. These tests include organoleptic tests, homogeneity tests, and pH tests.^{8,9} There has been research showing that *L. camara* Linn. extract ointment 5% more effective than a 10% dose in healing mouse wounds infected with *S. Epidermidis*.⁹ In addition to the above research, it is also known that creams containing 3, 4, and 5% LELC showed changes in Fe and Zn levels during storage for 6 months at 45 °C. Based on quercetin levels, cream containing 4% LELC was the most stable for a storage period of 6 months at 45°C, while cream containing 3% of *L. camara* Linn. leaf extract is less stable, and cream containing 5% LELC is unstable.¹

Changes in the levels of Fe, Zn, quercetin, gallic acid and tannin in the preparations mentioned above are caused by free radicals. Previously, we have standardized cream containing of *L. camara* Linn. leaf extract enriched with ASC AC based on the content of quercetin, gallic acid and tannin. Free radicals are atoms or groups that have 1 or more unpaired electrons. Therefore, free radicals in cream containing LELC above needs to be suppressed so that the levels of the active antibacterial substance do not decrease. Free radicals can be counteracted with antioxidants.¹⁰ ASC AC and vitamin E are examples of antioxidant substances that can be used for this purpose. These antioxidants can provide electrons to free radicals, and can break the chain reaction of free radicals. Antioxidants are important in cellular responses by suppressing oxidative stress.¹¹

Antioxidant activity is expressed as a IC₅₀ or half-maximal inhibitory concentration against free radicals. IC₅₀ is the concentration of the sample that is able to reduce 50% of the free radical DPPH.¹² The antioxidant activity of the extract was tested by the DPPH free radical scavenging test. DPPH is a stable and purple free radical, which can be absorbed at a wavelength of 517 nm. The presence of anti-free radical compounds causes the DPPH free radical to be reduced so that it changes color to yellow. Since the IC₅₀ is inversely proportional to the antioxidant potential of the extract, the lower of IC₅₀ value, the better of antioxidant power of the extract.¹³

ASC AC has high antioxidant activity. It has been proven that the higher the concentration used, the higher the antioxidant activity. ASC AC is often used to

compare how strong the antioxidant potential contained in fruit skin extracts.¹⁴ It should be noted that the use of different solvents in the extraction process affects the results of the antioxidant activity test. Antioxidant activity testing uses the method of measuring free radical capture by DPPH. Measurements have been made on ASC AC which was used as a positive control with an IC₅₀ value of 5.63ppm.¹⁵ Based on IC₅₀, antioxidant activity is classified into very strong, strong, medium and weak. Samples have very strong, strong, medium and weak antioxidant activity if they have IC₅₀ < 50ppm, 50-100ppm, 100-150 ppm, and 150-200ppm respectively.¹⁶ If the sample has an IC₅₀ > 200ppm, then the antioxidant activity is very weak.

Toxicological tests are generally carried out on animals, for example mice and Wistar rats.¹⁷ Of course, the toxicological test data are extrapolated to humans.¹⁸ Beside that, irritation properties testing refers to: Regulation of the Head of the Food and Drug Supervisory Agency regarding Guidelines for In Vivo Non-Clinical Toxicity Testing in 2014. Irritation activity testing is carried out on preparations with the optimum formula. The test uses a method of observing the appearance of edema and erythema on the skin of test animals.¹⁹ If the results of these observations show that no mice died, it is concluded that the test material is safe for use on the skin, does not cause side effects or toxicity reactions.²⁰

Based on the description above, we tested the effect of adding ASC AC to the cream containing of LELC on IC₅₀ which can assess antioxidant activity. Apart from that, we also carried out skin irritation tests on rabbits to assess the safety aspects for the skin.

METHODS:

Time and Place of Research:

Preparation and manufacture of cream, and standardization of the LELC which includes measurements of pH, spread ability and organoleptics was carried out at the Biomedical Laboratory, Faculty of Medicine, Universitas Trisakti, Jakarta. Preparation, manufacture of cream, and standardization have been done in March 2024. Measurement of flavonoid, tannin, phenolic, and antioxidant activity test of cream containing of LELC or in combination with ASC AC were carried out at the Pharmacy Laboratory, Pharmacy Study Program, Faculty of Mathematics and Natural Sciences, Universitas Sam Ratulangi, Manado. These measurements were carried out in April - May 2024.

Cream manufacture:

The basic ingredients for the cream are prepared with the following ingredients: stearic acid 16 g, cetyl alcohol 2 g, liquid paraffin 10 mL, methyl paraben 0.2 grams, TEA 7 drops, glycerol 8.5 mL, aquadest Ad 100 g.

Making cream is done by mixing stearic acid, cetyl alcohol and liquid paraffin into porcelain cup 1, while the other substances are in porcelain cup 2. Both are heated at 70°C until completely melted without stirring. After melting, mix the two ingredients (cups 1 and 2) into the hot mortar, and stir quickly using a hot stamper. Slowly add the hot aquabidestilata at 70°C, stirring continuously until a creamy base is formed. After it is ready, wait until it cools, then add the LELC (4% and 5%), and ASC AC (10% and 15%) according to the formula. It should be noted that to obtain a homogeneous cream preparation, stirring must be carried out slowly and continuously. Cream formulations containing 4%, and 5% LELC were made by adding 4, and 5 grams LELC, respectively, to 100 grams of cream base.

In this study there were 6 groups of cream, namely cream 1 to cream 6. Cream 1 is the cream containing 4% LELC. Cream 2 is the cream containing 4% LELC + 10% ASC AC. Cream 3 is the cream containing 4% LELC + 15% ASC AC. Cream 4 is the cream containing 5% LELC. Cream 5 is the cream containing 5% LELC + 10% ASC AC. Cream 6 is the cream containing 5% LELC + 15% ASC AC.

Cream standardization:

Each time the study used leaf extract as an active ingredient in cream, it is necessary to standardize the preparations. Cream standardization is carried out by carrying out pH tests, organoleptic tests, homogeneity tests, and spreadability.²¹

Cream phytochemical levels:

Measurements of flavonoid, phenolic, and tannin levels were carried out on the 6 groups of creams mentioned above. The tool used to measure phytochemical levels is AAS.²¹

Antioxidant activity of cream:

The antioxidant activity of cream containing LELC or combined with ASC AC was conducted using the DPPH method.

Irritation test:

Irritation properties testing refers to: Regulation of the Head of the Food and Drug Supervisory Agency regarding Guidelines for In Vivo Non-Clinical Toxicity Testing in 2014 (Peraturan Kepala Badan Pengawas Obat dan Makanan tentang Pedoman Uji Toksisitas Nonklinik Secara In Vivo tahun 2014). Irritation activity testing is carried out on preparations with the optimum formula. The test uses a method of observing the appearance of edema and erythema on the skin of test animals. The test animals used were New Zealand male albino rabbits with healthy skin, weighing around 1.5 - 2

kg. The rabbits were placed in individual cages and acclimatized for five days while still being given enough food and drink.

The hair on the rabbit's back is shaved with scissors carefully to avoid wounds on the skin. Parts of the rabbit skin were cleaned, and left for 1 day, so as not to interfere with the testing process. Cream weighing 0.5 grams is smeared on the rabbit's shaved back. The next step is to cover it with a sterile bandage, and attach it with plaster. The exposure time for the cream is 4 hours. After the bandage is removed, the back skin is cleaned with water. Observation of the test response assessed whether there was erythema and edema on the skin of the rabbit's back exposed to the cream. After the covering bandage is removed, observations are made for the next 1 hour. Follow-up observations were carried out at 24, 48 and 72 hours after removing the bandage.

Observation and assessment of the emergence of erythema and edema is expressed with scores of 0, 1, 2, 3, and 4. A score of 0 means that no erythema or edema occurs. A score of 1 means there is very mild erythema or edema (almost invisible). A score of 2 means there is mild erythema (starting to become red), and there is mild edema (red spots starting to appear). A score of 3 means there is moderate erythema (red), and there is moderate edema (reddish spots measuring 1 mm). A score of 4 means there is strong erythema (very reddish = purplish red), and there is strong edema (red spots measuring > 1mm).

Erythema and edema guidelines use scores of 0, 1, 2, 3, and 4. A score of 0 means no erythema or edema occurs. A score of 1 means there is very mild (almost invisible) erythema or edema. A score of 2 means there is mild erythema (starting to turn red), and there is mild edema (red spots starting to appear). A score of 3 means there is moderate erythema (red), and there is moderate edema (reddish spots measuring 1 mm). A score of 4 means there is strong erythema (very reddish = purplish red), and there is strong edema (red spots measuring > 1 mm).

The assessment of the potential for irritation is calculated based on the average value of the emergence of erythema plus the average value of the emergence of edema and then divided by the time period required for the appearance of these two parameters (erythema and edema). A value of 0 - 0.4 means that the preparation has no potential for irritation. A value of 0.5 - 1.9 means that the preparation has little potential for irritation or has the potential for mild irritation. A value of 2 - 4.9 means the preparation has the potential for mild or moderate irritation. A value of 5 - 8 means the preparation has the potential for strong or severe irritation.¹⁹

Table 1. Cream composition

Cream Compound	Cream 1	Cream 2	Cream 3	Cream 4	Cream 5	Cream 6
Stearic acid	16g	16g	16g	16g	16g	16g
Cetyl alcohol	2g	2g	2g	2g	2g	2g
Liquid paraffin	10mL	10mL	10mL	10mL	10mL	10mL
Methyl paraben	0.2g	0.2g	0.2g	0.2g	0.2g	0.2g
TEA	7 drops	7 drops	7 drops	7 drops	7 drops	7 drops
Glycerol	8.5mL	8.5mL	8.5mL	8.5mL	8.5mL	8.5mL
Thick extract	4g	4g	4g	5g	5g	5g
Ascorbic acid	0g	10g	15g	0g	10 g	15g
Water	add 100 g	add 100g	add 100g	add 100 g	add 100g	add 100 g

Abbreviations: Cream 1 = the cream containing 4% LELC; Cream 2 = the cream containing 4% LELC + 10% ASC AC; Cream 3 = the cream containing 4% LELC + 15% ASC AC; Cream 4 = the cream containing 5% LELC; Cream 5 = the cream containing 5% LELC + 10% ASC AC; Cream 6 = the cream containing 5% LELC + 15% ASC AC.

Research Ethics:

This research has passed the ethical review number 065/KER/FK/V/2023 from the Research Ethics Commission of the Faculty of Medicine, Trisakti University.

Analysis Method:

The data obtained included pH, spread ability, organoleptics, levels of flavonoid, phenolic, tannin, antioxidant activity, and irritations parameters. To determine changes in levels of flavonoid, phenolic, and tannin due to the addition of ASC AC to cream containing LELC, a linear regression was used. To determine changes in antioxidant activity in cream containing LELC or in combined with ASC AC, a linear regression test was used. The irritation criteria for cream preparations in this study are based on BPOM RI 2014.¹⁹

RESULTS:

Cream composition:

The composition of the cream contains LELC in combination with ASC AC is presented in Table 1.

Standardization of cream containing LELC:

Each time the study used cream containing LELC it is

necessary to standardize the preparation. Cream standardization is carried out by conducting organoleptic tests, pH tests, homogeneity tests, spread ability tests and phytochemical content.

Organoleptic test (shape, smell, and color):

The results of organoleptic tests of cream containing of LELC is presented in Table 2.

Based on the Table 2, the organoleptic test of the cream shows that it is semi-solid, the cream has the characteristic odor of LELC, and is colored like the extract. The cream base has an average pH of 6, while the cream containing LELC or combined with ASC AC has an average pH of 5. Cream base preparations, cream containing LELC or those combined with ASC AC are homogeneous. The cream base preparation has a higher spread ability compared to cream containing of LELC, or those combined with ASC AC.

Flavonoid, phenolic and tannin levels of cream:

Measurement results of flavonoid, phenolic, and tannin levels of cream containing LELC or in combination with ASC AC is presented in Table 3.

Table 2. Organoleptic test results of cream containing of LELC or in combination with ASC AC

Test	Cream base	Cream 1	Cream 2	Cream 3	Cream 4	Cream 5	Cream 6
Oeganoleptic test (shape)	ss	ss	ss	ss	ss	ss	ss
Oeganoleptic test (smell)	-	Ldo	Ldo	Ldo	Ldo	Ldo	Ldo
Oeganoleptic test (colour)	yw	sgb	sgb	sgb	sgb	sgb	sgb
pH	6 ± 0	5 ± 0	5 ± 0	5 ± 0	5 ± 0	5 ± 0	5 ± 0
Homogeneity	hmg	hmg	hmg	hmg	hmg	hmg	hmg
Spreadability (100 gr)	5.21 ± 0.41	3.8 ± 0.28	3.9 ± 0.31	3.9 ± 0.32	3.8 ± 0.29	3.9 ± 0.29	3.9 ± 0.28

Abbreviations: Cream 1 = the cream containing 4% LELC; Cream 2 = the cream containing 4% LELC + 10% ASC AC; Cream 3 = the cream containing 4% LELC + 15% ASC AC; Cream 4 = the cream containing 5% LELC; Cream 5 = the cream containing 5% LELC + 10% ASC AC; Cream 6 = the cream containing 5% LELC + 15% ASC AC; ss=semi-solid; Ldo = LELC's distinctive odor; yw = yellowish white; sgb=slightly greenish black; hmg = homogenous.

Table 3. Measurement results of flavonoid, phenolic, and tannin levels of cream

Measurement results	Cream 1 (mean ± SD)	Cream 2 (mean ± SD)	Cream 3 (mean ± SD)	Cream 4 (mean ± SD)	Cream 5 (mean ± SD)	Cream 6 (mean ± SD)
Flavonoid (mg/g)	0.627 ± 0.031	0.615 ± 0.013	0.637 ± 0.018	0.615 ± 0.026	0.601 ± 0.01	0.637 ± 0.018
Phenolic (mg/g)	0.454 ± 0.040	0.481 ± 0.010	0.478 ± 0.010	0.487 ± 0.006	0.485 ± 0.013	0.487 ± 0.006
Tannin (mg/g)	0.870 ± 0.080	0.820 ± 0.070	0.800 ± 0.060	0.860 ± 0.050	0.830 ± 0.050	0.830 ± 0.006

Abbreviation: Cream 1 = the cream containing 4% LELC. Cream 2 = the cream containing 4% LELC + 10% ASC AC. Cream 3 = the cream containing 4% LELC + 15% ASC AC. Cream 4 = the cream containing 5% LELC. Cream 5 = the cream containing 5% LELC + 10% ASC AC. Cream 6 = the cream containing 5% LELC + 15% ASC AC.

Cream containing 4% LELC or combined with ASC AC reduced tannic acid levels ($R^2 = 0.9423$). Regarding the treatment of adding 10% or 15% ASC AC to cream containing 4% LELC did not change the quercetin levels ($R^2 = 0.206$), but was unable to change the gallic acid levels ($R^2 = 0.6575$). Cream containing 5% LELC combined with ASC AC is not too strong in reducing tannins ($R^2 = 0.75$). Regarding the treatment of adding 10% or 15% ASC AC to cream containing 5% LELC did not change the flavonoids levels ($R^2 = 0.3674$), but was unable to change the phenolic levels ($R^2 = 0$).

Antioxidant activity of cream containing 4% LELC:

Determination of IC_{50} in the cream containing 4% LELC as follows: % DPPH radical inhibition = [(Absorbance control - Absorbance of test material): Absorbance control] x 100 %. Absorbance control (absorbance of test material) = 0.7757; absorbance of test material for 10, 20, 40, 60, and 80 ppm are 0.4184, 0.3693, 0.3391, 0.3318, and 0.2568 respectively. Result of % inhibition of DPPH radical 10, 20, 40, 60, and 80 ppm are 46.06%, 52.39%, 56.28%, 57.22%, and 66.89% respectively.

The sample concentration and percentage inhibition are plotted on the x and y axes respectively in the linear regression equation. This equation is used to determine the IC_{50} value of each sample expressed by a y value of 50 and the x value that will be obtained as IC_{50} . Regression equation to calculate IC_{50} in cream containing 4% LELC is $y = 4.649x + 41.821$. The y value is replaced with 50 (determination from IC_{50}) $\rightarrow 50 = 4.649x + 41.821 \rightarrow x = 1.759303$ ppm. The x value = is the IC_{50} value = 1.759303 ppm. IC_{50} of cream containing 4 % LELC = 1.759303 ppm.

Antioxidant activity of cream containing 4% LELC + 10% ASC AC;

Determination of IC_{50} in the cream containing 4% LELC + 10% ASC AC as follows: % DPPH radical inhibition = [(Absorbance control - Absorbance of test material) : Absorbance control] x 100 %. Absorbance control (absorbance of test material) = 0.7757; absorbance of test material for 2, 4, 6, 8, and 10 ppm are 0.4131, 0.3640, 0.3179, 0.3076, and 0.2488 respectively. Result of % inhibition of DPPH radical 2, 4, 6, 8, and 10 ppm are 46.75%, 53.07%, 59.02%, 60.34%, and 67.97% respectively. Linear regression equation $\rightarrow y = 4.971x + 42.517$. The y value is replaced with 50 (determination from IC_{50}) $\rightarrow 50 = 4.971x + 42.517 \rightarrow x = 1.505330$ ppm. The x value = the IC_{50} value = 1.505330ppm. IC_{50} of cream containing 4% LELC + 10% ASC AC = 1.505330ppm.

Antioxidant activity of cream containing 4% LELC+ 15% ASC AC:

Determination of IC_{50} in the cream containing 4%

LELC+ 15% ASC AC as follows: %DPPH radical inhibition = [(Absorbance control - Absorbance of test material): Absorbance control] x 100%. Absorbance control (absorbance of test material) = 0.7757; absorbance of test material for 2, 4, 6, 8, and 10 ppm are 0.3949, 0.3518, 0.3459, 0.3019, and 0.2468 respectively. Result of % inhibition of DPPH radical 2, 4, 6, 8, and 10 ppm are 49.09%, 54.65%, 55.41%, 61.18%, and 68.18% respectively. Linear regression equation $\rightarrow y = 4.461x + 44.299$. The y value is replaced with 50 (determination from IC_{50}) $\rightarrow 50 = 4.461x + 44.299 \rightarrow x = 1.277964$ ppm. The x value = is the IC_{50} value: = 1.277964 ppm. IC_{50} of cream containing 4% LELC + 15% ASC AC = 1.277964 ppm.

Antioxidant activity of cream containing 5% LELC:

Determination of IC_{50} in the cream containing 5% LELC as follows: % DPPH radical inhibition = [(Absorbance control - Absorbance of test material): Absorbance control] x 100 %. Absorbance control (absorbance of test material) = 0.7757; absorbance of test material for 2, 4, 6, 8, and 10 ppm are 0.4315, 0.3556, 0.3279, 0.3070, and 0.2575 respectively. Result of % inhibition of DPPH radical 2, 4, 6, 8, and 10 ppm are 44.37%, 54.16%, 57.73%, 60.43%, and 66.81% respectively. Linear regression equation $\rightarrow y = 5.115 x + 41.355$. The y value is replaced with 50 (determination from IC_{50}) $\rightarrow 50 = 5.115 x + 41.355 \rightarrow x = 1.690127$ ppm. The x value = the IC_{50} value = 1.690127 ppm. IC_{50} of cream containing 5% LELC= 1.690127 ppm.

Antioxidant activity of cream containing 5% LELC + 10% ASC AC:

Determination of IC_{50} in the cream containing 5% LELC + 10% ASC AC as follows: % DPPH radical inhibition = [(Absorbance control - Absorbance of test material) : Absorbance control] x 100 %. Absorbance control (absorbance of test material) = 0.7757; absorbance of test material for 2, 4, 6, 8, and 10 ppm are 0.4021, 0.3782, 0.3197, 0.3078, and 0.2628 respectively. Result of % inhibition of DPPH radical 2, 4, 6, 8, and 10 ppm are 48.17%, 51.24%, 58.78%, 60.31%, and 66.12% respectively. Linear regression equation $\rightarrow y = 4.497 x + 43.433$. The y value is replaced with 50 (determination from IC_{50}) $\rightarrow 50 = 4.497 x + 43.433 \rightarrow x = 1.460306$ ppm. The x value = the IC_{50} value = 1.460306 ppm. IC_{50} of cream containing 5% LELC + 10% ASC AC = 1.460306 ppm.

Antioxidant activity of cream containing 5% LELC + 15% ASC AC:

Determination of IC_{50} in the cream containing 5% LELC + 15% ASC AC as follows: % DPPH radical inhibition = [(Absorbance control - Absorbance of test material) : Absorbance control] x 100 %. Absorbance control (absorbance of test material) = 0.7757; absorbance of test material for 2, 4, 6, 8, and 10 ppm are 0.4148,

0.3447, 0.3052, 0.2805, and 0.2310 respectively. Result of % inhibition of DPPH radical 2, 4, 6, 8, and 10 ppm are 46.52%, 55.56%, 60.65%, 63.83%, and 70.22% respectively. Linear regression equation $\rightarrow y = 5.567x + 42.655$. The y value is replaced with 50 (determination from IC₅₀) $\rightarrow 50 = 5.567x + 42.655 \rightarrow x = 1.319382$ ppm. The x value = the IC₅₀ value = 1.319382 ppm. IC₅₀ of cream containing 5% LELC + 15% ASC AC = 1.319382 ppm.

Based on the phytochemical profile data of cream containing LELC or a combination with ASC AC, it shows that the addition of ASC AC to cream containing 4% or 5% LELC decreases IC₅₀, meaning it increases antioxidant activity. Because cream containing 4% or 5% LELC combined with ASC AC has an IC₅₀ value <50 ppm, its antioxidant activity is strong. The above data show that the addition of ASC AC to the cream containing 4% or 5% LELC decreases IC₅₀, meaning it increases antioxidant activity. Since the cream has an IC₅₀ value < 50 ppm, it can be stated that its antioxidant activity is strong.

Iritation test:

The results of shaving, and testing preparation for cream containing 5% LELC + 15% ASC AC which was exposed for 4 hours, and covered with a bandage is presented in Figure 1.

The results of the irritation test of cream containing 5% LELC + 15% ASC AC are presented in Figure 2.

The results of this study show that no rabbits died due to

skin irritation tests.



Figure 1. The results of shaving, and testing preparation for cream containing 5% LELC + 15% ASC AC which was exposed for 4 hours, and covered with a bandage.

DISCUSSION:

Organoleptic test results of cream containing 4% and 5% LELC and the combination with 10% or 15% ASC AC shows a semi-solid form, has a characteristic odor of LELC, blackish green color, pH is around 5, homogeneous, ability to spread ranges from 3.8 – 3.9 cm. The organoleptic test results in this study demonstrated that the results were the same as the results of our previous study.^{1,21} This is due to the cream component of LELC similar or alike. This is because the components of cream containing LELC are similar or identical.

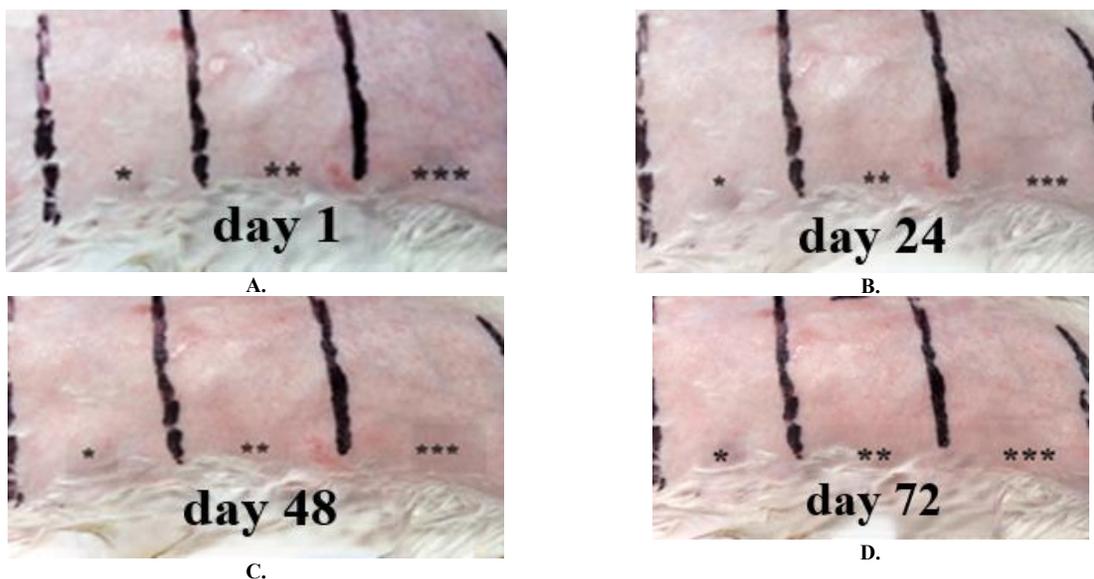


Figure 2. Irritation test results. A=After 4 hours of exposure to the tested cream, it was then washed, then observed 1 hour after washing. B=After 4 hours of exposure to the tested cream, it was then washed, then observed 24 hours after washing. C=After 4 hours of exposure to the tested cream, it was then washed, then observed 48 hours after washing. D= After 4 hours of exposure to the tested cream, it was then washed, then observed 72 hours after washing. *=Application site of cream base. **=Negative control without smearing. ***=Application site of cream (5% LELC + 15% ASC AC).

Previous research results have demonstrated that *L. camara* Linn. is a wild plant that can be used as a source of bioactive substance,^{22,23,24} such as quercetin, gallic acid and tannic acid.²⁵ A previous study showed that levels of flavonoids in the LELC was 243.89±1.30mg Quercetin Equivalent/gram.²⁶ In addition to bioactive substances, it should be noted that *L. camara* Linn. contains heavy metals resulting from the accumulation of absorbed nutrients.²⁷ There are several factors that influence flavonoid levels, including temperature. Cream storage temperature has been demonstrated to change quercetin levels, thereby affecting antibacterial activity.²¹ Based on the facts in this study that ASC AC combined with 4% LELC in cream reduced tannin levels ($R^2= 0.9423$). The addition of ASC AC did not change flavonoid levels ($R^2 = 0.206$), but was not able to change phenolic levels ($R^2 = 0.6575$). The research results can be applied to maintain levels of quercetin, gallic acid and tannic acid in preparations, especially cream preparations. The results of this study are important and in accordance with previous studies that demonstrated the importance of measuring ascorbic acid levels in herbal preparations.^{28,29,30}

Our suggestion above is based on the fact that cream preparations that are stored for a certain period of time can experience changes in flavonoid (quercetin as a flavonoids equivalent) levels or in other words they are unstable.¹ Significant changes in flavonoid levels in preparations due to the influence of storage temperature have also been demonstrated by previous studies.²¹ The stability of preparations containing LELC needs to be maintained so that the flavonoid, phenolic and tannin contents remain stable. It is hoped that preparations containing flavonoids, phenolics, and tannins will be stable, so that they function optimally as antibacterials and skin wound healers. This is in accordance with the results of previous research on the importance of extract optimization.³¹

We demonstrated that ASC AC added to cream containing 4% LELC had the effect of changing quercetin levels, but had less effect on changing levels of gallic acid, and tannic acid. Therefore, we recommend that to maintain the levels of quercetin, gallic acid, and tannic acid in the preparation it is necessary to combine it with other compounds besides ASC AC. ASC AC combined with 5% LELC in the cream is not too strong in reducing tannic acid levels ($R^2= 0.75$). Beside that, the addition of ASC AC did not change quercetin levels ($R^2 = 0.3674$), but was not able to change gallic acid levels ($R^2 = 0$). Based on this data, we decided to choose cream containing 5% LELC combined with ASC AC compared to cream containing 4% LELC which is being developed as an antibacterial and skin wound healer. Our choice of cream containing

leaf extract of *L. camara* Linn. in combination with ASC AC is in line with the statement that ASC AC has the potential to fight various types of diseases in humans. It was further stated that ASC AC acts as an enzyme cofactor that is needed in various physiological functions.^{32,33}

The data above shows that the addition of ASC AC to cream containing 4% and 5% of LELC reduces IC_{50} , meaning it increases antioxidant activity. Because 4% and 5% of LELC or combined with ASC AC, has an IC_{50} value of < 50ppm, its antioxidant activity is strong. The results of this study are in line with the concept that IC_{50} is related to antioxidant activity.³⁴ The results of other studies demonstrated that the IC_{50} of the methanol extract of *L. camara* Linn. 204.3µg/mL,³⁵ while *C. racemosa* extract has an IC_{50} value of 159.8 ppm.³⁶ As a comparison, the IC_{50} for *D. longan* seeds extract is 32.13 ug/mL, while *D. longan* peels extract is 23.50ug/mL.³⁷ These results are certainly different from the results of our research, because the samples measured by IC_{50} were different. Different results regarding antioxidant activity have been demonstrated in previous studies.^{38,39, 40}

Skin irritation test in the development of cream containing LELC combined with ASC AC is still an area of intensive research. The irritating effect of the preparation can be evaluated not only on the skin of experimental animals, but can also be carried out on reconstructions of human epidermis and corneal epithelium.⁴¹ Applying the cream to the mice's backs was carried out in a closed manner using sterile gauze, bandages and non-irritating plaster, thus ensuring and helping absorption of the test material, as well as avoiding environmental influences.⁴² The bandage we used in this study is easy to buy on the market, but can be used well. The choice of bandage is in accordance with the conclusions of previous research.⁴³ During the observation in this research, no erythema or edema was found due to exposure of cream containing 5% LELC+ 15% ASC AC, and it was also shown that the cream base was not irritating to the skin.

In this study it was demonstrated that cream containing 5% leaf extract of *L. camara* Linn. combined with 15% ASC AC did not irritate the skin. These data make it clear that the components in the cream are not irritating to the skin. Based on the results of the irritation test, it seems that cream containing LELC+ 15% ASC AC could be an alternative to be developed as a topical preparation for skin wounds. We hope that other research will be produced so that it can be used as a basis for future research regarding the development of cream containing LELC.

LIMITATIONS:

Although we have demonstrated standardization of cream containing LELC combined with ASC AC, assessed IC₅₀, and skin irritation tests in rabbits, we have not been able to test its antibacterial activity. Testing the antibacterial activity of cream containing LELC combined with ASC AC still needs to be carried out. The basis for developing cream containing LELC requires data on levels of quercetin, gallic acid, tannic acid, IC₅₀, and antibacterial activity.

CONCLUSION:

The results of organoleptic tests on creams containing LELC or combined with 10% or 15% ASC AC showed a semi-solid form, a distinctive odor leaf extract of *L. camara* Linn., blackish green color, pH around 5, homogeneous, spreadability ranging from 3.8 - 3.9 cm. IC₅₀ of cream 1 = 1.759 ppm, cream 2 = 1.5053 ppm, cream 3 = 1.278 ppm, cream 4 = 1.690 ppm, and cream 5 = 1.460 ppm, and cream 6 = 1.319 ppm.

During the observation, no erythema or edema to the skin was found due to exposure of cream containing 5% LELC + 15% ASC AC. IC₅₀ of cream containing 5% LELC + ASC AC 15% = 1.319 ppm, does not irritate the skin. Based on the results of the irritation test, it seems that cream containing 5% LELC + 15% ASC AC could be an alternative to be developed as a topical preparation for skin wounds. We hope that other research will be produced so that it can be used as a basis for future research regarding the development of cream containing LELC.

ORCID ID:

David Tjahyadi 0000-0003-1154-193x; Edy Parwanto=0000-0002-0797-6925; Hosea Jaya Edy=0000-0003-1522-3437; Joey Joshua Vidova Tjahyadi=0000-0002-6764-1123; Laurentia Gabrielle=0000-0002-1310-6395; Ashaolu Victoria Oladimeji=0000-0001-8022-6533; Seçil Karahüseyin=0000-0002-3515-2974

CONFLICT OF INTERESTS:

All authors declare that no conflict of interest.

FUNDING SOURCE:

Publication of this manuscript is supported by funding number 0802/PUF/FK/2023-2024 Faculty of Medicine, Universitas Trisakti, Jakarta, Indonesia.

ETHICAL STATEMENT:

The ethical clearance number 058/KER/FK/IU2024 for this research was obtained from the Research Ethics Commission, Faculty of Medicine, Universitas Trisakti, Jakarta, Indonesia.

ACKNOWLEDGMENTS:

We would like to thank the Leaders and Staff of the Pharmacy Laboratory, Pharmacy study program, Faculty of Mathematics and Natural Sciences, Universitas Sam Ratulangi, Manado for the opportunity given to us so that this research could be carried out.

AUTHORS CONTRIBUTIONS:

EP and DT=Schemed and designed experiment. EP, HJE, DV, SK, AVO=data collecting, analysis, and interpretation of the results. EP, HJE, JJNT, LG=images review and processing. EP, DV, SK, HJE=writing of the manuscript. All author's=reviewing and approved the final manuscript.

ABBREVIATION:

LELC = leaf extract of *Lantana camara* Linn.; ASC AC = ascorbic acid; IC₅₀ = half-maximal inhibitory concentration; DPPH = 2,2-Diphenyl-1-picrylhydrazyl; TEA = triethanolamine; pH = potential of hydrogen; AAS = atomic absorbance spectrophotometric; ppm = parts per million; λ = wave length; nm = nano meter; R = replican; ss = semi -solid; Ldo = LELC's distinctive odor; yw = yellowish white; sgb = slightly greenish black; hmg = homogeneous; SD = standard deviation; g = gram; mg/g = milligram per gram; µg/mL = microgram per milli liter.

REFERENCES:

1. Parwanto MLE, Tjahyadi D, Edy HJ, Wratsangka R, Guyansyah A. Stability of *Lantana camara* Linn. leaf extract cream base on the level of Fe, Mg, Zn and quercetin equivalent of flavonoid. IJPR. 2021; 13(1): 3069-3086. <https://doi.org/10.31838/ijpr/2021.13.01.441>
2. Ganjewala D, Sam S, Khan KH. Biochemical compositions and antibacterial activities of *Lantana camara* plants with yellow, lavender, red and white flowers. Eur Asian J BioSci. 2009; 3: 69-77.
3. Barreto FS, Sousa EO, Campos AR, Costa JGM, Rodrigues FFG. Antibacterial activity of *Lantana camara* Linn and *Lantana montevidensis* brig extracts from Cariri-Ceará, Brazil. J Young Pharm. 2010; 2 (1): 42- 44.
4. Badakhshan MP, Sasidharan S, Rameshwar NJ, Ramanathan S. A comparative study: antimicrobial activity of methanol extracts of *Lantana camara* various parts. Pharmacog Resch. 2009; 1 (6): 348-351.
5. Suryati, Santoni A, Arifin B, Ferdinal N, Salim E, Amelia A, et al., Analysis of chemical content, cytotoxic and anti-bacterial activity essential oil of *Lantana Camara* Linn leaves from various regions. Molekul. 2022; 17(2): 156-164. <https://doi.org/10.20884/1.jm.2022.17.2.5143>. Available from: <http://jos.unsoed.ac.id/index.php/jm/article/view/5143>
6. Murugesan S, Senthilkumar N, Suresh Babu D, Rajasugunasekar D. Chemical constituents and toxicity assessment of the leaf oil of *Lantana camara* Linn from Tamilnadu regions. Asian J Plant Sci Resch. 2016; 6(3): 32-42.
7. Edy HJ, 2012. Formula sabun opaque anti-bakteri ekstrak daun tembelekan (*Lantana camara* L.) terhadap *Staphylococcus epidermidis*. FMIPA, Progdil Farmasi UNSRAT, Manado, Sulawesi Utara, Indonesia.
8. Parwanto EML, Senjaya H, Edy HJ. Formulasi salep antibakteri ekstrak etanol daun *L. camara* (*Lantana camara* L.). Pharmacon. 2013; 2 (3): 104 – 108.
9. Parwanto MLE. Efficacy of *Lantana camara* Linn. leaf extracts ointment on dermal wound healing were infected with *Staphylococcus epidermidis*. Int J Basic Clin Pharmacol. 2017; 6: 503- 510. DOI: <http://dx.doi.org/10.18203/2319-2003.ijbcp20170457>
10. Martemucci G, Costagliola C, Mariano M, D'andrea L, Napolitano P,

- D'Alessandro AG. Free radical properties, source and targets, antioxidant consumption and health. *Oxygen* 2022; 2: 48-78. <https://doi.org/10.3390/oxygen2020006>. Available from: <https://www.mdpi.com/2673-9801/2/2/6>
11. Kurutas EB. The importance of antioxidants which play the role in cellular response against oxidative/nitrosative stress: current state. *Nutr J* 2015, 15, 71. <https://doi.org/10.1186/s12937-016-0186-5>
 12. Ghozaly MR, Safitri EB. Uji aktivitas antioksidan ekstrak N-heksan, etil asetat dan metanol dari varietas umbi wortel (*Daucus Carota L.*) Dengan Metode DPPH (1,1-Difenil-2-Pikrilhidrazil). *Sainstech Farma* 2016; 9 (2): 13-18.
 13. Klotoe JR, Fanou BA, Agbodjento E, Houehou A, Fah L, Dougnon V, et al. Antifungal activity of *Ocimum gratissimum L.*, *Lantana camara L.* & *Pteleopsis suberosa Engl.* & *Dies* used in the treatment of vulvovaginal candidiasis in Benin. *Future J Pharm Sci* 2021; 7: 237: 1-11. <https://doi.org/10.1186/s43094-021-00383-4>
 14. Sari FN, Sari Y. Antioxidant activity test on Indonesian typical fruit peel waste uji aktivitas antioksidan pada limbah kulit buah-buahan khas indonesia. *JAF* 2023; 8(1): 123 – 131
 15. Prasetyo E, Kharomah NZW, Rahayu TP. Uji aktivitas antioksidan menggunakan metode DPPH (2,2-difenil-1-pikrilhidrazil) terhadap ekstrak etanol kulit buah durian (*Durio zibethinnus L.*) dari Desa Alasmalang Kabupaten Banyumas. *Jurnal Pharmascience*. 2021; 08 (01): 75-82
 16. Li Z, Teng J, Lyu Y, Hu X, Zhao Y, Wang M. Enhanced antioxidant activity for apple juice fermented with *Lactobacillus plantarum* Atcc14917. *Molecules* 2019; 24(1): 1–12. doi: 10.3390/molecules24010051.
 17. Makiyah A, Tresnayanti S. Uji toksisitas akut yang diukur dengan penentuan ld50 ekstrak etanol umbi iles-iles (*amorphophallus variabilis bl.*) pada tikus putih strain wistar. *Majalah Kedokteran Bandung* 2017; 49 (3): 145–155. DOI: <https://doi.org/10.15395/mkb.v49n3.1130> <http://journal.fk.unpad.ac.id/index.php/mkb/article/view/1130>
 18. Reddy N, Lynch B, Gujral J, Karnik K. Alternatives to animal testing in toxicity testing: Current status and future perspectives in food safety assessments. *Food Chem Toxicol*. 2023; 179: 113944. doi: 10.1016/j.fct.2023.113944. Epub 2023 Jul 14. PMID: 37453475].
 19. BPOM RI (Badan Pengawasan Obat dan Makanan, Republik Indonesia), 2014. Pedoman uji toksisitas nonklinis secara in vivo, Peraturan Kepala Badan Pengawas Obat dan Makanan Republik Indonesia No 7 Tahun 2014.
 20. Samirana PO, Pratiwi DMN, Musdwiyuni NW, Anhdini DAA, Mahendra AN, Yadnya-Putra AAGR. Uji pendahuluan toksisitas akut dermal sediaan salep ekstrak etanol 70% daun binahong (*Anredera scandens (L.) moq.*) terstandar. *Jurnal Kimia*. 2018; 12 (2): 180-186. DOI: 10.24843/JCHEM.2018.v12.i02.p14
 21. Parwanto E, Amalia H, Tjahyadi D, Edy HJ, Oladimeji AV, Tjahyadi JJV, et al. Effect of extreme temperature storage on flavonoids levels and antibacterial activity of *lantana camara linn.* leaf extract cream. *Res J Pharm Technol*. 2023; 16(5): 2419-6. doi: 10.52711/0974-360X.2023.00399
 22. Ingawale GS, Goswami-Giri AS. Isolation and characterization of bioactive molecule from *Lantana camara*. *Asian J Research Chem* 2014; 7(3): 339-344.
 23. Punasiya R, Choudhary J, Pillai S. Analgesic activity of ethanolic extract of flower of *Lantana camara*. *Res. J. Pharm. Dosage Form. & Tech.* 2017; 9(4): 180-182. doi: 10.5958/0975-4377.2017.00029.5
 24. Pradhan S, Pattnaik S. Phytochemical screening of components present floral essential oil of an indigenous variety of *Lantana camara*, Linn (*Verbenaceae*). *Res. J. Pharmacognosy and Phytochem.* 2017; 9(4): 203-209. doi: 10.5958/0975-4385.2017.00037.1
 25. Parwanto E, Tjahyadi D, Amalia H, Edy HJ, Oladimeji AV, Tjahyadi JJV, et al. The potential of *lantana camara linn.* as a source of quercetin, gallic acid, and tannic acid. *J Hunan University (Natural Sciences)* 2023; 50 (5): 112-123. <https://doi.org/10.55463/issn.1674-2974.50.5.12>.
 26. Mansoori A, Singh N, Dubey SK, Thakur TK, Alkan N, Das SN, et al. Phytochemical characterization and assessment of crude extracts from *lantana camara l.* for antioxidant and antimicrobial activity. *Front Agron* 2020; 2(582268): 1-14. doi: 10.3389/fagro.2020.582268
 27. Awasthi A. Determination of bio-accumulated Cd, Cr, Cu, Ni and Pb in a wild plant *Lantana camara L.* *Verbenaceae*, grown on waste dump site and assessment of its phyto-extraction potential for studied metals. *AJRC*. 2023; 16(4): 271-6. doi: 10.52711/0974-4150.2023.00045
 28. Hima V, Rubesh Kumar S, Duganath N, Devanna N. A novel validated stability indicating chromatographic method for the simultaneous estimation of ascorbic acid and gallic acid in the ayurvedic capsule dosage form of amla by UFLC. *Asian J. Research Chem*. 2013; 6(9): 826-831.
 29. Diab DA, Asaad NA. Comparative analysis of ascorbic acid content and antioxidant activity of some fruit juices in Syria. *Research J. Pharm. and Tech.* 2018; 11(2): 515-520. doi: 10.5958/0974-360X.2018.00095.1
 30. Atul S, Gurav, Ajit S, Kulkarni. Efavirenz cocrystals with Ascorbic acid: A strategy for polymorphic modification and improvement of dissolution properties. *Research J Pharm and Tech.* 2024; 17(1): 213-1. doi: 10.52711/0974-360X.2024.00034
 31. Amina BB, Roukia H, Mahfoud HA, Ahlem T, Sabrina B, Chahrazed B, et al. Optimization of Extraction conditions of the Polyphenols, Flavonoids and the Antioxidant activity of the plant *Ammosperma cinereum (Brassicaceae)* through the Response Surface Methodology (RSM). *Asian J. Research Chem.* 2020; 13(1): 01-06. doi: 10.5958/0974-4150.2020.00001.2
 32. Ali A, Riaz S, Khalid W, Fatima M, Mubeen U, Babar Q, et al. Potential of ascorbic acid in human health against different diseases: an updated narrative review. *Int J Food Properties* 2024; 27(1): 493–515. <https://doi.org/10.1080/10942912.2024.2327335>
 33. Rajaram S, Natham R. Enhancement of rifampicin bioavailability by immune enhancing nutrient (ascorbic acid) as chitosan nanoparticles for tuberculosis therapy. *Research J Pharm and Tech* 2020; 13(12): 5924-5928. doi: 10.5958/0974-360X.2020.01034.3
 34. Caldwell GW, Yan Z, Lang W, Masucci JA. The IC (50) concept revisited. *Curr Top Med Chem.* 2012; 12(11): 1282-90. doi: 10.2174/156802612800672844.
 35. Boddupally M, Rani SS. In vitro antioxidant and in vivo hepatoprotective activity of *lantana camara* in paracetamol-induced liver injury in experimental rats. *IJCBS* 2023; 24(5): 656-663.
 36. Sirait SM, Rosita T, Rahmatia L. Formulation and evaluation of sea grape (*Caulerpa racemose*) extract as hand cream and its antioxidant activity test. *JKR* 2022; 7(1): 47 – 56.
 37. Muthukumarasamy R, Ilyana A, Fithriyaani NA, Najihah NA, Asyiqin N, Sekar M. Formulation and evaluation of natural antioxidant cream comprising methanolic peel extract of *Dimocarpus longan*. *IJPCR*. 2016; 8(9): 1305-1309.
 38. Jenifer P, Balakrishnan CP, Pillai SC. In-vitro antioxidant activity of marine red algae *Gracilaria foliifera*. *Asian J Pharm Tech.* 2017; 7(2): 105-108. doi: 10.5958/2231-5713.2017.00018.6
 39. Hasni S, Khelil A, Habita S, Bireche K, Mahcene Z, Boual Z, et al. The effect of the Feeding system on the Antioxidant activity of Camel urine. *Asian Journal of Pharmaceutical Research* 2022; 12(4): 261-6. doi: 10.52711/2231-5691.2022.00042
 40. Ashfaq MH, Siddique A, Shahid S. Antioxidant activity of Cinnamon zeylanicum: (A Review). *Asian J Pharmaceutic Resch.* 2021; 11(2): 106-6. doi: 10.52711/2231-5691.2021.00021
 41. Zerbinati N, Sommatiss S, Maccario C, Di Francesco S, Capillo MC, Grimaldi G, et al. A practical approach for the in vitro safety and efficacy assessment of an anti-ageing cosmetic cream enriched with functional compounds. *Molecules* 2021; 26(24): 7592: 1-12. doi: 10.3390/molecules26247592.
 42. Kick BL, Gumber S, Wang H, Moore RH, Taylor DK. Evaluation of 4 presurgical skin preparation methods in mice. *J Am Assoc Lab Anim Sci* 2019; 58(1): 71-77. doi: 10.30802/AALAS-JAALAS-18-000047.
 43. Bhojar SD, Malhotra K, Madke B. Dressing materials: a comprehensive review. *J Cutan Aesthet Surg.* 2023; 16(2): 81-89. doi: 10.4103/JCAS.JCAS_163_22.