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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>)

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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>)

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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>)

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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

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

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

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

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

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

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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>)

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

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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>)

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(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>)

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

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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>)

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(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>)

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

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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>)

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>)

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(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>)

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>)

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

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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>)

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(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>)

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

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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>)

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(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>)

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(AbstractView.aspx?

PID=2025-18-

11-25)

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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>)

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(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>)

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

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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>)

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(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>)

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

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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>)

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(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>)

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

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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>)

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(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>)

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

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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>)

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(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>)

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

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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): Prabhu 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: Prabhu 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>)

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(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 Suprpti, 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 Suprpti, 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>)

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

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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, Jajnadatta 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, Jajnadatta 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>)

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(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>)

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

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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>)

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(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. Gidasov, 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. Gidasov, 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>)

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

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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>)

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(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>)

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

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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>)

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(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, TGFB1, 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, TGFB1, 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>)

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

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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, Syendriya 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, Syendriya 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>)

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(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>)

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(AbstractView.aspx?

PID=2025-18-

11-45)

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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>)

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(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>)

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

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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>)

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(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>)

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

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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>)

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(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>)

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

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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 Fatimatuzzahro, 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 Fatimatuzzahro, 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>)

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(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>)

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

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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>)

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(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>)

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

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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>)

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(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>)

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(AbstractView.aspx?

PID=2025-18-

11-56)

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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>)

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(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>)

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

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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>)

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(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>)

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

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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>)

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(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)

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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>)

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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>)

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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>)

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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 Yulianti, Vivien Dwi Purnamasari

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

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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>)

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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

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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>)

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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)

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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>)

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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

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Views: 0 (pdf), 603 (html)

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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>)

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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

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Views: 0 (pdf), 509 (html)

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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>)

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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

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Views: 0 (pdf), 611 (html)

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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>)

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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>)

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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

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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>)

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

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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

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Views: 0 (pdf), 491 (html)

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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>)

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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, Aameeduzzafar 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)

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Cite: Sandip Sen, Mitta Chaitanya, Bairam Ravindar, Kalepu Swathi, Rajasree Suram, Aameeduzzafar 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>)

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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>)

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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

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³Study Program of Pharmacy, Faculty of Math and Natural Sciences, Universitas Saragat³atulangi, 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 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

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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.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 IC_{50} or half-maximal inhibitory concentration against free radicals. IC_{50} 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 IC_{50} is inversely proportional to the antioxidant potential of the extract, the lower of IC_{50} 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 IC_{50} value of 5.63ppm.²⁵ Based on IC_{50} , antioxidant activity is classified into very strong, strong, medium and weak. Samples have very strong, strong, medium and weak antioxidant activity if they have $IC_{50} < 50$ ppm, 50-100ppm, 100-150 ppm, and 150-200ppm respectively.¹⁶ If the sample has an $IC_{50} > 200$ ppm, 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 2019 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 IC_{50} 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
25 and 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	10g	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 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 = $[(\text{Absorbance control} - \text{Absorbance of test material}) : \text{Absorbance control}] \times 100$ %. 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 2: 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 = $[(\text{Absorbance control} - \text{Absorbance of test material}) : \text{Absorbance control}] \times 100$ %. 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 = 1.505330 ppm. IC_{50} of cream containing 4% LELC + 10% ASC AC = 1.505330 ppm.

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 = $[(\text{Absorbance control} - \text{Absorbance of test material}) : \text{Absorbance control}] \times 100$ %. 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 = $[(\text{Absorbance control} - \text{Absorbance of test material}) : \text{Absorbance control}] \times 100$ %. 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 = 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 = $[(\text{Absorbance control} - \text{Absorbance of test material}) : \text{Absorbance control}] \times 100$ %. 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 = $[(\text{Absorbance control} - \text{Absorbance of test material}) : \text{Absorbance control}] \times 100$ %. 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 IC_{50}) $\rightarrow 50 = 5.567x + 42.655 \rightarrow x = 1.319382$ ppm. The x value = the IC_{50} value = 1.319382 ppm. IC_{50} 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 IC_{50} , meaning it increases antioxidant activity. Because cream containing 4% or 5% LELC combined with ASC AC has an IC_{50} 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 IC_{50} , meaning it increases antioxidant activity. Since the cream has an IC_{50} 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.

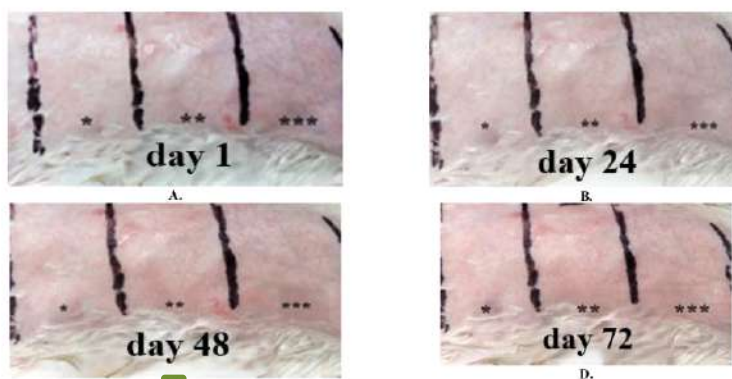


Fig. 2. Irritation test results. A=After 4 hours of exposure to the tested cream, it was then washed, then observed 1 hour after washing. B=After 4 hours of exposure to the tested cream, it was then washed, then observed 24 hours after washing. C=After 4 hours of exposure to the tested cream, it was 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 tannic¹⁵ 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 ($R^2 = 0.75$). Besides 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 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 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.

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AUTHORS CONTRIBUTIONS:

EP and DT=Schematic 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.

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RESEARCH ARTICLE

Cream of *Lantana camara* Linn. Enriched with Ascorbic Acid does not Irritate the Skin

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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 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

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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 anti-bacterial 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 = 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 $\rightarrow y = 4.497 x + 43.433$. 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 IC_{50}) $\rightarrow 50 = 5.567x + 42.655 \rightarrow x = 1.319382$ ppm. The x value = the IC_{50} value = 1.319382 ppm. IC_{50} 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 IC_{50} , meaning it increases antioxidant activity. Because cream containing 4% or 5% LELC combined with ASC AC has an IC_{50} 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 IC_{50} , meaning it increases antioxidant activity. Since the cream has an IC_{50} 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.

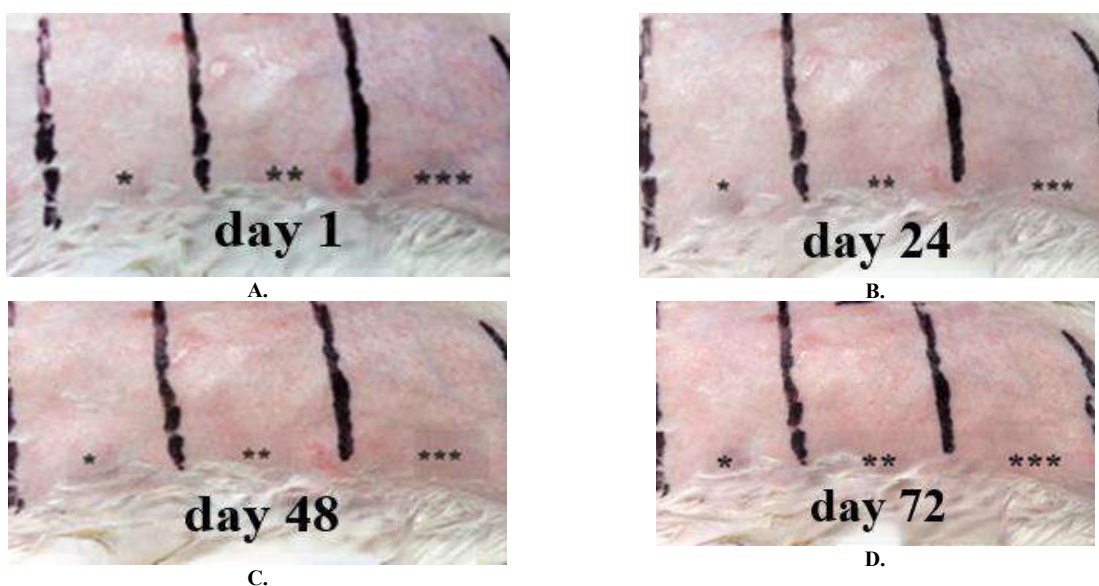


Figure 2. Irritation test results. A=After 4 hours of exposure to the tested cream, it was then washed, then observed 1 hour after washing. B=After 4 hours of exposure to the tested cream, it was then washed, then observed 24 hours after washing. C=After 4 hours of exposure to the tested cream, it was 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,^{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 ± 1.30 mg 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 < 50 ppm, 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. $204.3 \mu\text{g/mL}$,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 $\mu\text{g/mL}$, while *D. longan* peels extract is $23.50 \mu\text{g/mL}$.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.

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CONFLICT OF INTERESTS:

All authors declare that no conflict of interest.

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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.

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AUTHORS CONTRIBUTIONS:

EP and DT=Schematic 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.

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Paper Title: **Cream of Lantana camara Linn. enriched with ascorbic acid does not irritate the skin**

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