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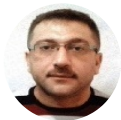


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Author(s): Zeid Hassan Abood, Husham Attallah Suhail, Zahraa Kadum Chafcheer

DOI: 10.52711/0974-360X.2021.00416 (<https://www.doi.org/10.52711/0974-360X.2021.00416>)

Views: 29 (pdf), 2131 (html)

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Assessment of Malaysian University Undergraduate's Knowledge and Awareness on Metabolic Syndrome and Conditions related to it (AbstractView.aspx?PID=2021-14-4-10)

Author(s): Mahadeva Rao US, S. Siddharthan, Sowmya. R, A. Sathivel, Thant Zin, Naresh Bhaskar Raj

DOI: 10.52711/0974-360X.2021.00334 (<https://www.doi.org/10.52711/0974-360X.2021.00334>)

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Comparative Evaluation of Porous Carriers for Dissolution Improvement of BCS Class II Drug (AbstractView.aspx?PID=2021-14-4-11)

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Synthesis and Antibacterial Evaluation of 1,3-Benzoxazepine-1,5-diones bearing Benzothiazole Moiety (AbstractView.aspx?PID=2021-14-4-12)

Author(s): Zeid Hassan Abood, Zahraa Kadum Chafcheer, Husham Attallah Suhail

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Streblus asper attenuates stress-induced physical and Biochemical changes in Rat Model (AbstractView.aspx?PID=2021-14-4-13)

Author(s): Sachin Neekhra, Himani Awasthi, Dharmchand Prasad Singh

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Author(s): Saranya Rallabhandi, Vivek Chakole, Amol Singam

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Cite: Saranya Rallabhandi, Vivek Chakole, Amol Singam. Comparison of Transdermal Fentanyl Patch and Intravenous Fentanyl for Postoperative pain relief in patients undergoing major abdominal surgeries under general Anaesthesia. *Research Journal of Pharmacy and Technology*. 2021; 14(4):1915-8. doi: 10.52711/0974-360X.2021.00338 (<https://www.doi.org/10.52711/0974-360X.2021.00338>)

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Estimation of Monoamines concentration in rat brain after administration of Olanzapine Microsphere (AbstractView.aspx?PID=2021-14-4-15)

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Author(s): Gozif Mohammed N. Omar, Fadel Yousif Al-Arabi, Mansour Abdulnabi H. Mehdi, Madhukar M. Fawade

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Cite: Gozif Mohammed N. Omar, Fadel Yousif Al-Arabi, Mansour Abdulnabi H. Mehdi, Madhukar M. Fawade. Effects of Antioxidants (Micronutrients) with Metformin in type 2 Diabetic patients. *Research Journal of Pharmacy and Technology*. 2021; 14(4):1923-7. doi: 10.52711/0974-360X.2021.00340 (<https://www.doi.org/10.52711/0974-360X.2021.00340>)

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Evaluation of Antioxidant and Hepatoprotective Activity of Biomass and Crude Astaxanthin extract of Green Alga *Haematococcus pluvialis* (AbstractView.aspx?PID=2021-14-4-18)

Author(s): Ashaq Hussain Rather, Rekha Rao

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Phytochemical and Antiulcer potential of Ethanolic leaf extract of *Heliotropium indicum* Linn. (AbstractView.aspx?PID=2021-14-4-19)

Author(s): Basak M, Saha S

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Antifungal potential of green synthesized silver nanoparticles (AgNPS) from the stem bark extract of *Kigelia pinnata* (AbstractView.aspx?PID=2021-14-4-2)

Author(s): Lokesh Ravi, Krishnan Kannabiran

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Author(s): Dileep Singh Baghel, Amit Mittal, Saurabh Singh, Anand Kumar Chaudhary, Amit Bhatia, Shruti Chopra

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Views: 8 (pdf), 1276 (html)

Access:  Open Access

Cite: Dileep Singh Baghel, Amit Mittal, Saurabh Singh, Anand Kumar Chaudhary, Amit Bhatia, Shruti Chopra. Formulation, Evaluation and Assessment of In Vitro Potential of Gokshur Ghan Tablet against Urolithiasis (Mutrakrichra). *Research Journal of Pharmacy and Technology*. 2021; 14(4):1945-2. doi: 10.52711/0974-360X.2021.00344 (<https://www.doi.org/10.52711/0974-360X.2021.00344>)

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(AbstractView.aspx?

PID=2021-14-

4-20)

Effect of Lactic Acid produced by Lactic acid bacteria on Prodigiosin production from *Streptomyces coelicolor* (AbstractView.aspx?PID=2021-14-4-21)

Author(s): *Tran Thi Minh Thu, Doan Thi Thanh Vinh, Nguyen Anh Dung, Nguyen Hoang Khue Tu*

DOI: 10.52711/0974-360X.2021.00345 (<https://www.doi.org/10.52711/0974-360X.2021.00345>)

Views: 28 (pdf), 1400 (html)

Access:  Open Access

Cite: *Tran Thi Minh Thu, Doan Thi Thanh Vinh, Nguyen Anh Dung, Nguyen Hoang Khue Tu. Effect of Lactic Acid produced by Lactic acid bacteria on Prodigiosin production from Streptomyces coelicolor. Research Journal of Pharmacy and Technology. 2021; 14(4):1953-6. doi: 10.52711/0974-360X.2021.00345 (<https://www.doi.org/10.52711/0974-360X.2021.00345>)*

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(AbstractView.aspx?
PID=2021-14-
4-21)

Prospective Study of Antibiotics Utilization in Multi-speciality hospitals in Narasaraopet at Guntur District, Andhra Pradesh (AbstractView.aspx?PID=2021-14-4-22)

Author(s): *Ch. Sunil Kumar, A. Pasupathi*

DOI: 10.52711/0974-360X.2021.00346 (<https://www.doi.org/10.52711/0974-360X.2021.00346>)

Views: 11 (pdf), 1410 (html)

Access:  Open Access

Cite: *Ch. Sunil Kumar, A. Pasupathi. Prospective Study of Antibiotics Utilization in Multi-speciality hospitals in Narasaraopet at Guntur District, Andhra Pradesh. Research Journal of Pharmacy and Technology. 2021; 14(4):1957-0. doi: 10.52711/0974-360X.2021.00346 (<https://www.doi.org/10.52711/0974-360X.2021.00346>)*

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(AbstractView.aspx?
PID=2021-14-
4-22)

Formulation and Evaluation of Naproxen Emulgel for Topical Delivery (AbstractView.aspx?PID=2021-14-4-23)

Author(s): Rohini Reddy, Shanthi Priya, Ganesh Akula, Suddagoni Santhosh, Albert Jaswanth

DOI: 10.52711/0974-360X.2021.00347 (<https://www.doi.org/10.52711/0974-360X.2021.00347>)

Views: 66 (pdf), 2450 (html)

Access:  Open Access

Cite: Rohini Reddy, Shanthi Priya, Ganesh Akula, Suddagoni Santhosh, Albert Jaswanth. Formulation and Evaluation of Naproxen Emulgel for Topical Delivery. *Research Journal of Pharmacy and Technology*. 2021; 14(4):1961-5. doi: 10.52711/0974-360X.2021.00347 (<https://www.doi.org/10.52711/0974-360X.2021.00347>)

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(AbstractView.aspx?
PID=2021-14-
4-23)

Prevalence of Plasmid-mediated quinolone resistance genes among Ciprofloxacin-nonsusceptible Escherichia coli and Klebsiella pneumoniae isolated from clinical isolates in Najaf, Iraq (AbstractView.aspx?PID=2021-14-4-24)

Author(s): Samer A. MH. Al-Hilali, Zainab Jaber Hadi, Kreem G. Aljayashi

DOI: 10.52711/0974-360X.2021.00348 (<https://www.doi.org/10.52711/0974-360X.2021.00348>)

Views: 23 (pdf), 1105 (html)

Access:  Open Access

Cite: Samer A. MH. Al-Hilali, Zainab Jaber Hadi, Kreem G. Aljayashi. Prevalence of Plasmid-mediated quinolone resistance genes among Ciprofloxacin-nonsusceptible Escherichia coli and Klebsiella pneumoniae isolated from clinical isolates in Najaf, Iraq. *Research Journal of Pharmacy and Technology*. 2021; 14(4):1966-2. doi: 10.52711/0974-360X.2021.00348 (<https://www.doi.org/10.52711/0974-360X.2021.00348>)

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(AbstractView.aspx?
PID=2021-14-
4-24)

Characteristics and Release Profile: Formula of Insulin Nanoparticles using Medium Molecular Weight Chitosan and Pectin Polymers (AbstractView.aspx?PID=2021-14-4-25)

Author(s): Tiara Mega Kusuma, Teuku Nanda Saifullah Sulaiman, Ronny Martien

DOI: 10.52711/0974-360X.2021.00349 (<https://www.doi.org/10.52711/0974-360X.2021.00349>)

Views: 33 (pdf), 1499 (html)

Access:  Open Access

Cite: Tiara Mega Kusuma, Teuku Nanda Saifullah Sulaiman, Ronny Martien. Characteristics and Release Profile: Formula of Insulin Nanoparticles using Medium Molecular Weight Chitosan and Pectin Polymers. *Research Journal of Pharmacy and Technology*. 2021; 14(4):1973-8. doi: 10.52711/0974-360X.2021.00349 (<https://www.doi.org/10.52711/0974-360X.2021.00349>)

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(AbstractView.aspx?
PID=2021-14-
4-25)

Spectrophotometric assessment of Tooth discoloration induced by various Antibiotic pastes (AbstractView.aspx?PID=2021-14-4-26)

Author(s): Ravi Gupta, Radhika Kewalramani, Dishant Patel

DOI: 10.52711/0974-360X.2021.00350 (<https://www.doi.org/10.52711/0974-360X.2021.00350>)

Views: 9 (pdf), 1654 (html)

Access:  Open Access

Cite: Ravi Gupta, Radhika Kewalramani, Dishant Patel. Spectrophotometric assessment of Tooth discoloration induced by various Antibiotic pastes. *Research Journal of Pharmacy and Technology*. 2021; 14(4):1979-1. doi: 10.52711/0974-360X.2021.00350 (<https://www.doi.org/10.52711/0974-360X.2021.00350>)

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(AbstractView.aspx?
PID=2021-14-
4-26)

Polyherbal Formulation Development and Assessment of its Potential against Urolithiasis (Mutrakricchra) by In-Vitro Technique (AbstractView.aspx?PID=2021-14-4-27)

Author(s): Swati Sharma, Dileep Singh Baghel, Amit Mittal, Saurabh Singh, Bimlesh Kumar, Pranav Kumar Prabhakar, Anand Kumar Chaudhary

DOI: 10.52711/0974-360X.2021.00351 (<https://www.doi.org/10.52711/0974-360X.2021.00351>)

Views: 19 (pdf), 1454 (html)

Access:  Open Access

Cite: Swati Sharma, Dileep Singh Baghel, Amit Mittal, Saurabh Singh, Bimlesh Kumar, Pranav Kumar Prabhakar, Anand Kumar Chaudhary. Polyherbal Formulation Development and Assessment of its Potential against Urolithiasis (Mutrakricchra) by In-Vitro Technique. *Research Journal of Pharmacy and Technology*. 2021; 14(4):1982-8. doi: 10.52711/0974-360X.2021.00351 (<https://www.doi.org/10.52711/0974-360X.2021.00351>)

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(AbstractView.aspx?
PID=2021-14-
4-27)

Conductometric Studies On 3, 5-Dinitro Salicylic Acid in Ethanol Water Mixed Solvent Media (AbstractView.aspx?PID=2021-14-4-28)

Author(s): Sudha. R, Nithya. G

DOI: 10.52711/0974-360X.2021.00352 (<https://www.doi.org/10.52711/0974-360X.2021.00352>)

Views: 11 (pdf), 1093 (html)

Access:  Open Access

Cite: Sudha. R, Nithya. G. Conductometric Studies On 3, 5-Dinitro Salicylic Acid in Ethanol Water Mixed Solvent Media. *Research Journal of Pharmacy and Technology*. 2021; 14(4):1989-2. doi: 10.52711/0974-360X.2021.00352 (<https://www.doi.org/10.52711/0974-360X.2021.00352>)

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(AbstractView.aspx?
PID=2021-14-
4-28)

Comparison of Bone regeneration in hADMSC Versus hUCBMSC with hBMMSC as a Reference: A Literature Review of Potential Bone Regeneration (AbstractView.aspx?PID=2021-14-4-29)

Author(s): Sudarmono, Sunardhi Widyaputra, Suhardjo Sitam, Inne Suherna, Arni D. Fitri, Arif Rachman

DOI: 10.52711/0974-360X.2021.00353 (<https://www.doi.org/10.52711/0974-360X.2021.00353>)

Views: 2 (pdf), 1461 (html)

Access:  Open Access

Cite: Sudarmono, Sunardhi Widyaputra, Suhardjo Sitam, Inne Suherna, Arni D. Fitri, Arif Rachman. Comparison of Bone regeneration in hADMSC Versus hUCBMSC with hBMMSC as a Reference: A Literature Review of Potential Bone Regeneration. *Research Journal of Pharmacy and Technology*. 2021; 14(4):1993-8. doi: 10.52711/0974-360X.2021.00353 (<https://www.doi.org/10.52711/0974-360X.2021.00353>)

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(AbstractView.aspx?
PID=2021-14-
4-29)

Comparative Evaluation of multiple extracts of Pericarp of Luffa acutangula (L.) for its significant Antioxidant, Antibacterial and Antifungal activity (AbstractView.aspx?PID=2021-14-4-3)

Author(s): Shubhangi Kadu, Daksha Attarde, Deepak Kulkarni, Santosh Shelke, Vilas Arsul

DOI: 10.52711/0974-360X.2021.00327 (<https://www.doi.org/10.52711/0974-360X.2021.00327>)

Views: 14 (pdf), 1214 (html)

Access:  Open Access

Cite: Shubhangi Kadu, Daksha Attarde, Deepak Kulkarni, Santosh Shelke, Vilas Arsul. Comparative Evaluation of multiple extracts of Pericarp of Luffa acutangula (L.) for its significant Antioxidant, Antibacterial and Antifungal activity. *Research Journal of Pharmacy and Technology*. 2021; 14(4):1847-3. doi: 10.52711/0974-360X.2021.00327 (<https://www.doi.org/10.52711/0974-360X.2021.00327>)

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(AbstractView.aspx?
PID=2021-14-
4-3)

Prevalence and Genotype Distribution of Hepatitis C Virus among Intravenous Drug users (IDUs) in Surabaya, Indonesia (AbstractView.aspx?PID=2021-14-4-30)

Author(s): Ira Humairah, Lina Lukitasari, Retno Handajani, Mochamad Amin, Citrawati Dyah Kencono Wungu, Edhi Rianto, Arif Nur Muhammad Ansori

DOI: 10.52711/0974-360X.2021.00354 (<https://www.doi.org/10.52711/0974-360X.2021.00354>)

Views: 18 (pdf), 1400 (html)

Access:  Open Access

Cite: Ira Humairah, Lina Lukitasari, Retno Handajani, Mochamad Amin, Citrawati Dyah Kencono Wungu, Edhi Rianto, Arif Nur Muhammad Ansori. Prevalence and Genotype Distribution of Hepatitis C Virus among Intravenous Drug users (IDUs) in Surabaya, Indonesia. *Research Journal of Pharmacy and Technology*. 2021; 14(4):1999-3. doi: 10.52711/0974-360X.2021.00354 (<https://www.doi.org/10.52711/0974-360X.2021.00354>)

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(AbstractView.aspx?

PID=2021-14-

4-30)

Evaluation of Anti-inflammatory and Anti-arthritic activity of Luffa acutangula peel extract mediated ZnO nanoparticles (AbstractView.aspx?PID=2021-14-4-31)

Author(s): R. Ananthalakshmi, S. R. Xavier Raja Rathinam, A. Mohamed Sadiq

DOI: 10.52711/0974-360X.2021.00355 (<https://www.doi.org/10.52711/0974-360X.2021.00355>)

Views: 32 (pdf), 1377 (html)

Access:  Open Access

Cite: R. Ananthalakshmi, S. R. Xavier Raja Rathinam, A. Mohamed Sadiq. Evaluation of Anti-inflammatory and Anti-arthritic activity of Luffa acutangula peel extract mediated ZnO nanoparticles. *Research Journal of Pharmacy and Technology*. 2021; 14(4):2004-8. doi: 10.52711/0974-360X.2021.00355 (<https://www.doi.org/10.52711/0974-360X.2021.00355>)

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(AbstractView.aspx?

PID=2021-14-

4-31)

In-vitro Screening for Cytotoxic Activity of Herbal Plant Extracts on N2a Cell Lines (AbstractView.aspx?PID=2021-14-4-32)

Author(s): Neelamma G, Shaik Harun Rasheed, Anjaneyulu Vinukonda, Aruna M

DOI: 10.52711/0974-360X.2021.00356 (<https://www.doi.org/10.52711/0974-360X.2021.00356>)

Views: 54 (pdf), 1506 (html)

Access:  Open Access

Cite: Neelamma G, Shaik Harun Rasheed, Anjaneyulu Vinukonda, Aruna M. In-vitro Screening for Cytotoxic Activity of Herbal Plant Extracts on N2a Cell Lines. *Research Journal of Pharmacy and Technology*. 2021; 14(4):2009-2. doi: 10.52711/0974-360X.2021.00356 (<https://www.doi.org/10.52711/0974-360X.2021.00356>)

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(AbstractView.aspx?
PID=2021-14-
4-32)

UV Spectrophotometric Quantification of Niacinamide in Pharmaceutical Dosage Form by Multivariate Calibration Technique (AbstractView.aspx?PID=2021-14-4-33)

Author(s): Subhash Varun Kumar V, Kavitha J, Lakshmi KS

DOI: 10.52711/0974-360X.2021.00357 (<https://www.doi.org/10.52711/0974-360X.2021.00357>)

Views: 180 (pdf), 3338 (html)

Access:  Open Access

Cite: Subhash Varun Kumar V, Kavitha J, Lakshmi KS. UV Spectrophotometric Quantification of Niacinamide in Pharmaceutical Dosage Form by Multivariate Calibration Technique. *Research Journal of Pharmacy and Technology*. 2021; 14(4):2013-0. doi: 10.52711/0974-360X.2021.00357 (<https://www.doi.org/10.52711/0974-360X.2021.00357>)

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(AbstractView.aspx?
PID=2021-14-
4-33)

Antibacterial action of *Pedilanthus tithymaloides* leaves extract and FTIR Phytochemical Finger printing (AbstractView.aspx?PID=2021-14-4-34)

Author(s): Gomathi S, Jannathul Firdous, Shanmugapriya A, Varalakshmi B, Karpagam T, Bharathi V, Anitha P, Mahalakshmi P

DOI: 10.52711/0974-360X.2021.00358 (<https://www.doi.org/10.52711/0974-360X.2021.00358>)

Views: 64 (pdf), 1624 (html)

Access:  Open Access

Cite: Gomathi S, Jannathul Firdous, Shanmugapriya A, Varalakshmi B, Karpagam T, Bharathi V, Anitha P, Mahalakshmi P. Antibacterial action of *Pedilanthus tithymaloides* leaves extract and FTIR Phytochemical Finger printing. *Research Journal of Pharmacy and Technology*. 2021; 14(4):2021-5. doi: 10.52711/0974-360X.2021.00358 (<https://www.doi.org/10.52711/0974-360X.2021.00358>)

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(AbstractView.aspx?
PID=2021-14-
4-34)

Phytochemical screening and In-Vitro Antidiabetic Activity of Extracts of some Indian Medicinal Plants (AbstractView.aspx?PID=2021-14-4-35)

Author(s): Tulsidas Nimbekar, Ashish Jain, Pradeep Kumar Mohanty

DOI: 10.52711/0974-360X.2021.00359 (<https://www.doi.org/10.52711/0974-360X.2021.00359>)

Views: 20 (pdf), 1940 (html)

Access:  Open Access

Cite: Tulsidas Nimbekar, Ashish Jain, Pradeep Kumar Mohanty. Phytochemical screening and In-Vitro Antidiabetic Activity of Extracts of some Indian Medicinal Plants. *Research Journal of Pharmacy and Technology*. 2021; 14(4):2026-0. doi: 10.52711/0974-360X.2021.00359 (<https://www.doi.org/10.52711/0974-360X.2021.00359>)

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(AbstractView.aspx?
PID=2021-14-
4-35)

The association between Angiotensin-converting Enzyme Inhibitors and the risk of recurrent implantation failure (AbstractView.aspx?PID=2021-14-4-36)

Author(s): Laith S Abdulhaleem, Omar F Abdul-Rasheed, Salwa J Abdullah Al-Awadi, Thuraya H Abdullah

DOI: 10.52711/0974-360X.2021.00360 (<https://www.doi.org/10.52711/0974-360X.2021.00360>)

Views: 11 (pdf), 1049 (html)

Access:  Open Access

Cite: Laith S Abdulhaleem, Omar F Abdul-Rasheed, Salwa J Abdullah Al-Awadi, Thuraya H Abdullah. The association between Angiotensin-converting Enzyme Inhibitors and the risk of recurrent implantation failure. *Research Journal of Pharmacy and Technology*. 2021; 14(4):2031-4. doi: 10.52711/0974-360X.2021.00360 (<https://www.doi.org/10.52711/0974-360X.2021.00360>)

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(AbstractView.aspx?
PID=2021-14-
4-36)

Formulation Development and Characterization of Darunavir and Ritonavir Immediate Release Tablets using Quality by Design approach (AbstractView.aspx?PID=2021-14-4-37)

Author(s): Patel Dhaval, Hitesh Kumar A. Patel, J. K. Patel

DOI: 10.52711/0974-360X.2021.00361 (<https://www.doi.org/10.52711/0974-360X.2021.00361>)

Views: 37 (pdf), 2020 (html)

Access:  Open Access

Cite: Patel Dhaval, Hitesh Kumar A. Patel, J. K. Patel. Formulation Development and Characterization of Darunavir and Ritonavir Immediate Release Tablets using Quality by Design approach. *Research Journal of Pharmacy and Technology*. 2021; 14(4):2035-1. doi: 10.52711/0974-360X.2021.00361 (<https://www.doi.org/10.52711/0974-360X.2021.00361>)

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(AbstractView.aspx?
PID=2021-14-
4-37)

Method development and Validation of UV Spectrophotometric estimation of Remogliflozin Etabonate in bulk and its tablet dosage form (AbstractView.aspx?PID=2021-14-4-38)

Author(s): Dave Vidhi, Paresh Patel

DOI: 10.52711/0974-360X.2021.00362 (<https://www.doi.org/10.52711/0974-360X.2021.00362>)

Views: 165 (pdf), 3761 (html)

Access:  Open Access

Cite: Dave Vidhi, Paresh Patel. Method development and Validation of UV Spectrophotometric estimation of Remogliflozin Etabonate in bulk and its tablet dosage form. *Research Journal of Pharmacy and Technology*. 2021; 14(4):2042-4. doi: 10.52711/0974-360X.2021.00362 (<https://www.doi.org/10.52711/0974-360X.2021.00362>)

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(AbstractView.aspx?
PID=2021-14-
4-38)

Free Radical Scavenging Activity of extract and fraction of Okra seeds determined by DPPH (2,2-diphenyl-1-picrylhydrazyl) method (AbstractView.aspx?PID=2021-14-4-39)

Author(s): Yamin, Ruslin, Mistriyani, La Ode Muhammad Fitrawan, Sabarudin, Muhammad Arba

DOI: 10.52711/0974-360X.2021.00363 (<https://www.doi.org/10.52711/0974-360X.2021.00363>)

Views: 24 (pdf), 1421 (html)

Access:  Open Access

Cite: Yamin, Ruslin, Mistriyani, La Ode Muhammad Fitrawan, Sabarudin, Muhammad Arba. Free Radical Scavenging Activity of extract and fraction of Okra seeds determined by DPPH (2,2-diphenyl-1-picrylhydrazyl) method. *Research Journal of Pharmacy and Technology*. 2021; 14(4):2045-8. doi: 10.52711/0974-360X.2021.00363 (<https://www.doi.org/10.52711/0974-360X.2021.00363>)

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(AbstractView.aspx?
PID=2021-14-
4-39)

The Anti-inflammatory effect of Onion extract in rabbit with Corneal ulcer (AbstractView.aspx?PID=2021-14-4-4)

Author(s): Cicih Komariah, Rana Salsabila, Asyifa Hilda Hapsari, Sixma Rizky Kurnia Putri, Zahrah Febianti

DOI: 10.52711/0974-360X.2021.00328 (<https://www.doi.org/10.52711/0974-360X.2021.00328>)

Views: 32 (pdf), 1493 (html)

Access:  Open Access

Cite: Cicih Komariah, Rana Salsabila, Asyifa Hilda Hapsari, Sixma Rizky Kurnia Putri, Zahrah Febianti. The Anti-inflammatory effect of Onion extract in rabbit with Corneal ulcer. *Research Journal of Pharmacy and Technology*. 2021; 14(4):1854-8. doi: 10.52711/0974-360X.2021.00328 (<https://www.doi.org/10.52711/0974-360X.2021.00328>)

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(AbstractView.aspx?
PID=2021-14-
4-4)

Protective effect of Chrysin as Antioxidant, Anti-inflammatory and Anti apoptotic agent in Transient global cerebral Ischemia - Reperfusion injury among diabetic rats (AbstractView.aspx?PID=2021-14-4-40)

Author(s): Orsu Prabhakar

DOI: 10.52711/0974-360X.2021.00364 (<https://www.doi.org/10.52711/0974-360X.2021.00364>)

Views: 24 (pdf), 1132 (html)

Access:  Open Access

Cite: Orsu Prabhakar. Protective effect of Chrysin as Antioxidant, Anti-inflammatory and Anti apoptotic agent in Transient global cerebral Ischemia - Reperfusion injury among diabetic rats. *Research Journal of Pharmacy and Technology*. 2021; 14(4):2049-4. doi: 10.52711/0974-360X.2021.00364 (<https://www.doi.org/10.52711/0974-360X.2021.00364>)

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(AbstractView.aspx?
PID=2021-14-
4-40)

Novel Method Development for Metformin, Ivabradine, Metoprolol and Ertugliflozin and its Validation in API and Pharmaceutical Dosage Form by RPHPLC Method (AbstractView.aspx?PID=2021-14-4-41)

Author(s): G. Haritha, Vijey Aanandhi M, P. Shanmugasundaram

DOI: 10.52711/0974-360X.2021.00365 (<https://www.doi.org/10.52711/0974-360X.2021.00365>)

Views: 22 (pdf), 1617 (html)

Access:  Open Access

Cite: G. Haritha, Vijey Aanandhi M, P. Shanmugasundaram. Novel Method Development for Metformin, Ivabradine, Metoprolol and Ertugliflozin and its Validation in API and Pharmaceutical Dosage Form by RPHPLC Method. *Research Journal of Pharmacy and Technology*. 2021; 14(4):2055-1. doi: 10.52711/0974-360X.2021.00365 (<https://www.doi.org/10.52711/0974-360X.2021.00365>)

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(AbstractView.aspx?
PID=2021-14-
4-41)

Development and in vitro Characterization of Intranasal Microemulsions of Sumatriptan Succinate for brain Targeting (AbstractView.aspx?PID=2021-14-4-42)

Author(s): R. Nagaraju, U. Rajeswari, G. Ravi, P. Subhash Chandra Bose, Damineni Saritha

DOI: 10.52711/0974-360X.2021.00366 (<https://www.doi.org/10.52711/0974-360X.2021.00366>)

Views: 19 (pdf), 1276 (html)

Access:  Open Access

Cite: R. Nagaraju, U. Rajeswari, G. Ravi, P. Subhash Chandra Bose, Damineni Saritha. Development and in vitro Characterization of Intranasal Microemulsions of Sumatriptan Succinate for brain Targeting. *Research Journal of Pharmacy and Technology*. 2021; 14(4):2062-8. doi: 10.52711/0974-360X.2021.00366 (<https://www.doi.org/10.52711/0974-360X.2021.00366>)

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(AbstractView.aspx?
PID=2021-14-
4-42)

Formulation, Design and In-Vitro Characterization of Clopidogrel Bisulphate Nanosponge Tablets for Oral Administration (AbstractView.aspx?PID=2021-14-4-43)

Author(s): Shweta S. Gedam, Ganesh D. Basarkar

DOI: 10.52711/0974-360X.2021.00367 (<https://www.doi.org/10.52711/0974-360X.2021.00367>)

Views: 25 (pdf), 1737 (html)

Access:  Open Access

Cite: Shweta S. Gedam, Ganesh D. Basarkar. Formulation, Design and In-Vitro Characterization of Clopidogrel Bisulphate Nanosponge Tablets for Oral Administration. *Research Journal of Pharmacy and Technology*. 2021; 14(4):2069-5. doi: 10.52711/0974-360X.2021.00367 (<https://www.doi.org/10.52711/0974-360X.2021.00367>)

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(AbstractView.aspx?
PID=2021-14-
4-43)

Evaluation of the combination of Kemuning Leaves Extracts and Simvastatin on Blood fatty acids and amino acids of Hyperlipidemic Model Rats (AbstractView.aspx?PID=2021-14-4-44)

Author(s): Elly Wardani, Yahdiana Harahap, Abdul Mun'im, Anton Bahtiar

DOI: 10.52711/0974-360X.2021.00368 (<https://www.doi.org/10.52711/0974-360X.2021.00368>)

Views: 38 (pdf), 1480 (html)

Access:  Open Access

Cite: Elly Wardani, Yahdiana Harahap, Abdul Mun'im, Anton Bahtiar. Evaluation of the combination of Kemuning Leaves Extracts and Simvastatin on Blood fatty acids and amino acids of Hyperlipidemic Model Rats. *Research Journal of Pharmacy and Technology*. 2021; 14(4):2076-0. doi: 10.52711/0974-360X.2021.00368 (<https://www.doi.org/10.52711/0974-360X.2021.00368>)

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(AbstractView.aspx?
PID=2021-14-
4-44)

Development and Validation of a New Stability Indicating Liquid Chromatographic Method for the Simultaneous quantification of Hydrochlorthiazide and Telmisartan (AbstractView.aspx?PID=2021-14-4-45)

Author(s): Kalyani Lingamaneni, Mukthinuthalapati Mathrusri Annapurna

DOI: 10.52711/0974-360X.2021.00369 (<https://www.doi.org/10.52711/0974-360X.2021.00369>)

Views: 9 (pdf), 1257 (html)

Access:  Open Access

Cite: Kalyani Lingamaneni, Mukthinuthalapati Mathrusri Annapurna. Development and Validation of a New Stability Indicating Liquid Chromatographic Method for the Simultaneous quantification of Hydrochlorthiazide and Telmisartan. *Research Journal of Pharmacy and Technology*. 2021; 14(4):2081-8. doi: 10.52711/0974-360X.2021.00369 (<https://www.doi.org/10.52711/0974-360X.2021.00369>)

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(AbstractView.aspx?
PID=2021-14-
4-45)

Structure Modifications of Pinostrobin from Temu Kunci (*Boesenbergia pandurata* ROXB. SCHLECHT) and Their Analgesic Activity Based on in Silico Studies (AbstractView.aspx?PID=2021-14-4-46)

Author(s): Andy Suryadi, Siswandono Siswodihardjo, Tri Widiandani, Retno Widyowati

DOI: 10.52711/0974-360X.2021.00370 (<https://www.doi.org/10.52711/0974-360X.2021.00370>)

Views: 145 (pdf), 1843 (html)

Access:  Open Access

Cite: Andy Suryadi, Siswandono Siswodihardjo, Tri Widiandani, Retno Widyowati. Structure Modifications of Pinostrobin from Temu Kunci (*Boesenbergia pandurata* ROXB. SCHLECHT) and Their Analgesic Activity Based on in Silico Studies. *Research Journal of Pharmacy and Technology*. 2021; 14(4):2089-4. doi: 10.52711/0974-360X.2021.00370 (<https://www.doi.org/10.52711/0974-360X.2021.00370>)

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(AbstractView.aspx?
PID=2021-14-
4-46)

Design, Optimization and in vitro Characterization of Dasatinib loaded PLGA Nano carrier for Targeted cancer therapy: A Preliminary Evaluation (AbstractView.aspx?PID=2021-14-4-47)

Author(s): Shyam S Kumar, G. Gopalakrishnan, N. L. Gowrishankar

DOI: 10.52711/0974-360X.2021.00371 (<https://www.doi.org/10.52711/0974-360X.2021.00371>)

Views: 28 (pdf), 1005 (html)

Access:  Open Access

Cite: Shyam S Kumar, G. Gopalakrishnan, N. L. Gowrishankar. Design, Optimization and in vitro Characterization of Dasatinib loaded PLGA Nano carrier for Targeted cancer therapy: A Preliminary Evaluation. *Research Journal of Pharmacy and Technology*. 2021; 14(4):2095-0. doi: 10.52711/0974-360X.2021.00371 (<https://www.doi.org/10.52711/0974-360X.2021.00371>)

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(AbstractView.aspx?
PID=2021-14-
4-47)

Bioactivity guided extraction of PDHC [3,3'-(propane-2,2-diyl)bis(3,4,5,6,7,8- hexahydro-1h-isochromene)]: A Novel antibacterial compound from an ornamental plant Polyalthia longifolia (AbstractView.aspx?PID=2021-14-4-48)

Author(s): Gayathri Segaran, Lokesh Ravi, Mythili Sathivelu

DOI: 10.52711/0974-360X.2021.00372 (<https://www.doi.org/10.52711/0974-360X.2021.00372>)

Views: 22 (pdf), 893 (html)

Access:  Open Access

Cite: Gayathri Segaran, Lokesh Ravi, Mythili Sathivelu. Bioactivity guided extraction of PDHC [3,3'-(propane-2,2-diyl)bis(3,4,5,6,7,8- hexahydro-1h-isochromene)]: A Novel antibacterial compound from an ornamental plant *Polyalthia longifolia*. *Research Journal of Pharmacy and Technology*. 2021; 14(4):2101-7. doi: 10.52711/0974-360X.2021.00372 (<https://www.doi.org/10.52711/0974-360X.2021.00372>)

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(AbstractView.aspx?
PID=2021-14-
4-48)

Preparation and Characterization of Novel Self Nano Emulsifying Drug Delivery System of Allopurinol (AbstractView.aspx?PID=2021-14-4-49)

Author(s): Priyal Patel, Shilpa Solanki, Ashok Mahajan, Falgun Mehta, Kautuk Shah

DOI: 10.52711/0974-360X.2021.00373 (<https://www.doi.org/10.52711/0974-360X.2021.00373>)

Views: 18 (pdf), 1742 (html)

Access:  Open Access

Cite: Priyal Patel, Shilpa Solanki, Ashok Mahajan, Falgun Mehta, Kautuk Shah. Preparation and Characterization of Novel Self Nano Emulsifying Drug Delivery System of Allopurinol. *Research Journal of Pharmacy and Technology*. 2021; 14(4):2108-4. doi: 10.52711/0974-360X.2021.00373 (<https://www.doi.org/10.52711/0974-360X.2021.00373>)

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(AbstractView.aspx?
PID=2021-14-
4-49)

Synthesis and Assessment of Sub-acute Toxicity of Novel Rosin Esters of Polyethylene Glycol 200 in Swiss Albino Mice (AbstractView.aspx?PID=2021-14-4-5)

Author(s): Pramod V. Burakale, Manish R. Bhise, Dinesh M. Sakarkar, Suresh G. Sudke

DOI: 10.52711/0974-360X.2021.00329 (<https://www.doi.org/10.52711/0974-360X.2021.00329>)

Views: 3 (pdf), 1245 (html)

Access:  Open Access

Cite: Pramod V. Burakale, Manish R. Bhise, Dinesh M. Sakarkar, Suresh G. Sudke. Synthesis and Assessment of Sub-acute Toxicity of Novel Rosin Esters of Polyethylene Glycol 200 in Swiss Albino Mice. *Research Journal of Pharmacy and Technology*. 2021; 14(4):1859-6. doi: 10.52711/0974-360X.2021.00329 (<https://www.doi.org/10.52711/0974-360X.2021.00329>)

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(AbstractView.aspx?
PID=2021-14-
4-5)

Selection of Medicinal Plants Suppressing Growth of Multidrug-Resistant Strain of Tuberculosis Causative Agent (AbstractView.aspx?PID=2021-14-4-50)

Author(s): *Irina Alexandrovna Ratnikova, Amankeldi Kurbanovich Sadanov, Nina Nicolaevna Gavrilova, Saltanat Emilkyzy Orazymbet, Raushan Zhumabekkyzy Kaptagai*

DOI: 10.52711/0974-360X.2021.00374 (<https://www.doi.org/10.52711/0974-360X.2021.00374>)

Views: 7 (*pdf*), 1209 (*html*)

Access:  Open Access

Cite: *Irina Alexandrovna Ratnikova, Amankeldi Kurbanovich Sadanov, Nina Nicolaevna Gavrilova, Saltanat Emilkyzy Orazymbet, Raushan Zhumabekkyzy Kaptagai. Selection of Medicinal Plants Suppressing Growth of Multidrug-Resistant Strain of Tuberculosis Causative Agent. Research Journal of Pharmacy and Technology. 2021; 14(4):2115-8. doi: 10.52711/0974-360X.2021.00374 (<https://www.doi.org/10.52711/0974-360X.2021.00374>)*

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(AbstractView.aspx?
PID=2021-14-
4-50)

Preparing a New Chromatographic support from Local Syrian Clay and using it in Thin Layer Chromatography for Simultaneous Determination of Paracetamol, Caffeine and Aspirin in Tablets (AbstractView.aspx?PID=2021-14-4-51)

Author(s): *Amir Alhaj Sakur, Firas Mannaa, Mahamed Yahia Zein Eddin*

DOI: 10.52711/0974-360X.2021.00375 (<https://www.doi.org/10.52711/0974-360X.2021.00375>)

Views: 22 (*pdf*), 1356 (*html*)

Access:  Open Access

Cite: *Amir Alhaj Sakur, Firas Mannaa, Mahamed Yahia Zein Eddin. Preparing a New Chromatographic support from Local Syrian Clay and using it in Thin Layer Chromatography for Simultaneous Determination of Paracetamol, Caffeine and Aspirin in Tablets. Research Journal of Pharmacy and Technology. 2021; 14(4):2119-4. doi: 10.52711/0974-360X.2021.00375 (<https://www.doi.org/10.52711/0974-360X.2021.00375>)*

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(AbstractView.aspx?
PID=2021-14-
4-51)

Method Development and Validation of Droxidopa by RP-UPLC (AbstractView.aspx?PID=2021-14-4-52)

Author(s): *Bharani Pandilla, K. Chitra, C. N. Nalini, Ashok P.*

DOI: 10.52711/0974-360X.2021.00376 (<https://www.doi.org/10.52711/0974-360X.2021.00376>)

Views: 42 (*pdf*), 1464 (*html*)

Access:  Open Access

Cite: *Bharani Pandilla, K. Chitra, C. N. Nalini, Ashok P. Method Development and Validation of Droxidopa by RP-UPLC. Research Journal of Pharmacy and Technology. 2021; 14(4):2125-8. doi: 10.52711/0974-360X.2021.00376 (<https://www.doi.org/10.52711/0974-360X.2021.00376>)*

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(AbstractView.aspx?
PID=2021-14-
4-52)

Green Synthesis of Selenium Nanoparticle using Capparis decidua fruit extract and its Characterization using Transmission Electron Microscopy And UV- Visible Spectroscopy (AbstractView.aspx?PID=2021-14-4-53)

Author(s): *B. Madhumitha, Preetha Santhakumar, M. Jeevitha, S. Rajeshkumar*

DOI: 10.52711/0974-360X.2021.00377 (<https://www.doi.org/10.52711/0974-360X.2021.00377>)

Views: 60 (*pdf*), 1600 (*html*)

Access:  Open Access

Cite: *B. Madhumitha, Preetha Santhakumar, M. Jeevitha, S. Rajeshkumar. Green Synthesis of Selenium Nanoparticle using Capparis decidua fruit extract and its Characterization using Transmission Electron Microscopy And UV- Visible Spectroscopy. Research Journal of Pharmacy and Technology. 2021; 14(4):2129-2. doi: 10.52711/0974-360X.2021.00377 (<https://www.doi.org/10.52711/0974-360X.2021.00377>)*

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(AbstractView.aspx?
PID=2021-14-
4-53)

Development and Validation of an analytical method for the determination of Ofloxacin and Benzyl alcohol in a Pharmaceutical mixture (AbstractView.aspx?PID=2021-14-4-54)

Author(s): Ghadeer Balloul, Nikolay N. Boyko, Elena T. Zhilyakova, Solaiman Doba

DOI: 10.52711/0974-360X.2021.00378 (<https://www.doi.org/10.52711/0974-360X.2021.00378>)

Views: 35 (pdf), 1550 (html)

Access:  Open Access

Cite: Ghadeer Balloul, Nikolay N. Boyko, Elena T. Zhilyakova, Solaiman Doba. Development and Validation of an analytical method for the determination of Ofloxacin and Benzyl alcohol in a Pharmaceutical mixture. *Research Journal of Pharmacy and Technology*. 2021; 14(4):2133-8. doi: 10.52711/0974-360X.2021.00378 (<https://www.doi.org/10.52711/0974-360X.2021.00378>)

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(AbstractView.aspx?
PID=2021-14-
4-54)

A Bioanalytical Method for Quantification of Telmisartan in rat Plasma; Development, Validation and Application to Pharmacokinetic Study (AbstractView.aspx?PID=2021-14-4-55)

Author(s): Khater Ahmed Saeed AL-Japairai, Bappaditya Chatterjee, Syed Mahmood, Samah Hamed Almurisi

DOI: 10.52711/0974-360X.2021.00379 (<https://www.doi.org/10.52711/0974-360X.2021.00379>)

Views: 18 (pdf), 2102 (html)

Access:  Open Access

Cite: Khater Ahmed Saeed AL-Japairai, Bappaditya Chatterjee, Syed Mahmood, Samah Hamed Almurisi. A Bioanalytical Method for Quantification of Telmisartan in rat Plasma; Development, Validation and Application to Pharmacokinetic Study. *Research Journal of Pharmacy and Technology*. 2021; 14(4):2139-4. doi: 10.52711/0974-360X.2021.00379 (<https://www.doi.org/10.52711/0974-360X.2021.00379>)

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(AbstractView.aspx?
PID=2021-14-
4-55)

Oral Fast Dissolving Film: The Avant-garde Avenue for oral Consignment Modus Operandi (AbstractView.aspx?PID=2021-14-4-56)

Author(s): Aditya Singh, Vaseem A. Ansari, Md Faheem Haider, Farogh Ahsan, Tariq Mahmood, Shubhrat Maheshwari, Ritesh Kumar Tiwari

DOI: 10.52711/0974-360X.2021.00380 (<https://www.doi.org/10.52711/0974-360X.2021.00380>)

Views: 35 (pdf), 1892 (html)

Access:  Open Access

Cite: Aditya Singh, Vaseem A. Ansari, Md Faheem Haider, Farogh Ahsan, Tariq Mahmood, Shubhrat Maheshwari, Ritesh Kumar Tiwari. Oral Fast Dissolving Film: The Avant-garde Avenue for oral Consignment Modus Operandi. *Research Journal of Pharmacy and Technology*. 2021; 14(4):2145-2. doi: 10.52711/0974-360X.2021.00380 (<https://www.doi.org/10.52711/0974-360X.2021.00380>)

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(AbstractView.aspx?
PID=2021-14-
4-56)

Dietary Supplementation of Fenugreek Seed Extract and Choline-Docosahexaenoic acid on Oxidative Stress and Neurodegeneration in Ovariectomized Rats with Bilateral Common Carotid Artery Occlusion (AbstractView.aspx?PID=2021-14-4-57)

Author(s): Anjaneyulu Konuri, Kumar M R Bhat, Kiranmai S Rai, Nagamma T, Rajesh Thangarajan, Sivakumar G

DOI: 10.52711/0974-360X.2021.00381 (<https://www.doi.org/10.52711/0974-360X.2021.00381>)

Views: 21 (pdf), 2164 (html)

Access:  Open Access

Cite: Anjaneyulu Konuri, Kumar M R Bhat, Kiranmai S Rai, Nagamma T, Rajesh Thangarajan, Sivakumar G. Dietary Supplementation of Fenugreek Seed Extract and Choline-Docosahexaenoic acid on Oxidative Stress and Neurodegeneration in Ovariectomized Rats with Bilateral Common Carotid Artery Occlusion. *Research Journal of Pharmacy and Technology*. 2021; 14(4):2153-1. doi: 10.52711/0974-360X.2021.00381 (<https://www.doi.org/10.52711/0974-360X.2021.00381>)

Read More »

(AbstractView.aspx?
PID=2021-14-
4-57)

Synthesis, Characterization and Anticancer Evaluation of Novel Analogues of Pyrazoles (AbstractView.aspx?PID=2021-14-4-58)

Author(s): Babli Khatun, Venkatesh Kamath, Muddukrishna B. S., Aravinda Pai

DOI: 10.52711/0974-360X.2021.00382 (<https://www.doi.org/10.52711/0974-360X.2021.00382>)

Views: 6 (pdf), 1226 (html)

Access:  Open Access

Cite: Babli Khatun, Venkatesh Kamath, Muddukrishna B. S., Aravinda Pai. Synthesis, Characterization and Anticancer Evaluation of Novel Analogues of Pyrazoles. *Research Journal of Pharmacy and Technology*. 2021; 14(4):2162-6. doi: 10.52711/0974-360X.2021.00382 (<https://www.doi.org/10.52711/0974-360X.2021.00382>)

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(AbstractView.aspx?
PID=2021-14-
4-58)

Barriers to Oral health care in patients with special needs-A Cross-sectional study (AbstractView.aspx?PID=2021-14-4-59)

Author(s): Nandhini Subramaniam, Arvind Muthukrishnan

DOI: 10.52711/0974-360X.2021.00383 (<https://www.doi.org/10.52711/0974-360X.2021.00383>)

Views: 45 (pdf), 1085 (html)

Access:  Open Access

Cite: Nandhini Subramaniam, Arvind Muthukrishnan. Barriers to Oral health care in patients with special needs-A Cross-sectional study. *Research Journal of Pharmacy and Technology*. 2021; 14(4):2167-1. doi: 10.52711/0974-360X.2021.00383 (<https://www.doi.org/10.52711/0974-360X.2021.00383>)

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(AbstractView.aspx?
PID=2021-14-
4-59)

Physicochemical Characterization of Bi-Layered Terbutaline Sulfate Tablets for Chronotherapeutic Pulsatile Drug Delivery Design Based on Natural and Synthetic Polymer using Direct Compression Technique (AbstractView.aspx?PID=2021-14-4-6)

Author(s): Prasanta Kumar Mohapatra, Janki Manohar, Pankaj Singh Patel, Mandeep Kumar Gupta, Bibhuti Prasad Rath

DOI: 10.52711/0974-360X.2021.00330 (<https://www.doi.org/10.52711/0974-360X.2021.00330>)

Views: 2 (pdf), 1161 (html)

Access:  Open Access

Cite: Prasanta Kumar Mohapatra, Janki Manohar, Pankaj Singh Patel, Mandeep Kumar Gupta, Bibhuti Prasad Rath. Physicochemical Characterization of Bi-Layered Terbutaline Sulfate Tablets for Chronotherapeutic Pulsatile Drug Delivery Design Based on Natural and Synthetic Polymer using Direct Compression Technique. *Research Journal of Pharmacy and Technology*. 2021; 14(4):1867-4. doi: 10.52711/0974-360X.2021.00330 (<https://www.doi.org/10.52711/0974-360X.2021.00330>)

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(AbstractView.aspx?
PID=2021-14-
4-6)

Development and Characterization of Orally Dissolving Tablet of a Poorly Soluble Antiemetic Drug (AbstractView.aspx?PID=2021-14-4-60)

Author(s): Beena P, Arun G Krishnan, Nisha Ullas, Chippy S Pillai, Sam C Mathew, Salikh Salim

DOI: 10.52711/0974-360X.2021.00384 (<https://www.doi.org/10.52711/0974-360X.2021.00384>)

Views: 12 (pdf), 1129 (html)

Access:  Open Access

Cite: Beena P, Arun G Krishnan, Nisha Ullas, Chippy S Pillai, Sam C Mathew, Salikh Salim. Development and Characterization of Orally Dissolving Tablet of a Poorly Soluble Antiemetic Drug. *Research Journal of Pharmacy and Technology*. 2021; 14(4):2172-8. doi: 10.52711/0974-360X.2021.00384 (<https://www.doi.org/10.52711/0974-360X.2021.00384>)

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(AbstractView.aspx?
PID=2021-14-
4-60)

Chromatographic Profiles of the main Secondary Metabolites in the *Monarda fistulosa* L. Aerial Part (AbstractView.aspx?PID=2021-14-4-61)

Author(s): Mariia Shanaida, Izabela Jasicka-Misiak, Marietta Bialon, Olha Korablova, Piotr P. Wieczorek

DOI: 10.52711/0974-360X.2021.00385 (<https://www.doi.org/10.52711/0974-360X.2021.00385>)

Views: 11 (pdf), 1350 (html)

Access:  Open Access

Cite: Mariia Shanaida, Izabela Jasicka-Misiak, Marietta Bialon, Olha Korablova, Piotr P. Wieczorek. *Chromatographic Profiles of the main Secondary Metabolites in the *Monarda fistulosa* L. Aerial Part.* *Research Journal of Pharmacy and Technology.* 2021; 14(4):2179-4. doi: 10.52711/0974-360X.2021.00385 (<https://www.doi.org/10.52711/0974-360X.2021.00385>)

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(AbstractView.aspx?
PID=2021-14-
4-61)

Anti-Candida activity of few India Medicinal herbs used in the treatment of Gynecological disorders (AbstractView.aspx?PID=2021-14-4-62)

Author(s): Shweta Shriwas, Raju Chouksey, Sumeet Dwivedi

DOI: 10.52711/0974-360X.2021.00386 (<https://www.doi.org/10.52711/0974-360X.2021.00386>)

Views: 16 (pdf), 1266 (html)

Access:  Open Access

Cite: Shweta Shriwas, Raju Chouksey, Sumeet Dwivedi. *Anti-Candida activity of few India Medicinal herbs used in the treatment of Gynecological disorders.* *Research Journal of Pharmacy and Technology.* 2021; 14(4):2185-7. doi: 10.52711/0974-360X.2021.00386 (<https://www.doi.org/10.52711/0974-360X.2021.00386>)

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(AbstractView.aspx?
PID=2021-14-
4-62)

Study on conditions for Gama buryric acid (GABA) production in *Lactobacillus fermentum* A01 isolated from human (AbstractView.aspx?PID=2021-14-4-63)

Author(s): *Cat Thien Phuc, Doan Thi Thanh Vinh, Truong Khoa My, Tran Thi Thu Hien, Nguyen Anh Dung, Tran Thi Minh Thu, Tu Hoang Khue Nguyen*

DOI: 10.52711/0974-360X.2021.00387 (<https://www.doi.org/10.52711/0974-360X.2021.00387>)

Views: 23 (*pdf*), 1443 (*html*)

Access:  Open Access

Cite: *Cat Thien Phuc, Doan Thi Thanh Vinh, Truong Khoa My, Tran Thi Thu Hien, Nguyen Anh Dung, Tran Thi Minh Thu, Tu Hoang Khue Nguyen. Study on conditions for Gama buryric acid (GABA) production in Lactobacillus fermentum A01 isolated from human. Research Journal of Pharmacy and Technology. 2021; 14(4):2188-0. doi: 10.52711/0974-360X.2021.00387 (<https://www.doi.org/10.52711/0974-360X.2021.00387>)*

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(AbstractView.aspx?

PID=2021-14-

4-63)

Molecular Docking Q-SAR Studies of Benzimidazole as Antifungal Nucleus (AbstractView.aspx?PID=2021-14-4-64)

Author(s): *M. Vijey Aanandhi, Anbhule Sachin J*

DOI: 10.52711/0974-360X.2021.00388 (<https://www.doi.org/10.52711/0974-360X.2021.00388>)

Views: 22 (*pdf*), 1391 (*html*)

Access:  Open Access

Cite: *M. Vijey Aanandhi, Anbhule Sachin J. Molecular Docking Q-SAR Studies of Benzimidazole as Antifungal Nucleus. Research Journal of Pharmacy and Technology. 2021; 14(4):2191-4. doi: 10.52711/0974-360X.2021.00388 (<https://www.doi.org/10.52711/0974-360X.2021.00388>)*

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(AbstractView.aspx?

PID=2021-14-

4-64)

Wound Healing Potential of Polyherbal Formulation in Rats (AbstractView.aspx?PID=2021-14-4-65)

Author(s): Rohit Kumar, Reena Gupta, Bimlesh Kumar, Bhupinder Kapoor

DOI: 10.52711/0974-360X.2021.00389 (<https://www.doi.org/10.52711/0974-360X.2021.00389>)

Views: 46 (pdf), 1880 (html)

Access:  Open Access

Cite: Rohit Kumar, Reena Gupta, Bimlesh Kumar, Bhupinder Kapoor. Wound Healing Potential of Polyherbal Formulation in Rats. *Research Journal of Pharmacy and Technology*. 2021; 14(4):2195-9. doi: 10.52711/0974-360X.2021.00389 (<https://www.doi.org/10.52711/0974-360X.2021.00389>)

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(AbstractView.aspx?
PID=2021-14-
4-65)

Dissolution behavior of Olmesartan Medoxomil drug in Polymeric Micelles of Soluplus and Pluronic F127 (AbstractView.aspx?PID=2021- 14-4-66)

Author(s): Suchetana Dutta, P. K. Kulkarni, Shailesh T.

DOI: 10.52711/0974-360X.2021.00390 (<https://www.doi.org/10.52711/0974-360X.2021.00390>)

Views: 55 (pdf), 1574 (html)

Access:  Open Access

Cite: Suchetana Dutta, P. K. Kulkarni, Shailesh T. Dissolution behavior of Olmesartan Medoxomil drug in Polymeric Micelles of Soluplus and Pluronic F127. *Research Journal of Pharmacy and Technology*. 2021; 14(4):2200-4. doi: 10.52711/0974-360X.2021.00390 (<https://www.doi.org/10.52711/0974-360X.2021.00390>)

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(AbstractView.aspx?
PID=2021-14-
4-66)

Free radical scavenging, Thrombolytic and cytotoxic effects of the medicinal herb, *Crassocephalum crepidioides* (AbstractView.aspx?PID=2021-14-4-67)

Author(s): Md. Tanvir Kabir, Mayesha Samiha, Hasina Yasmin, Mohammed S. Rahman, Md. Sohanur Rahman, Ghulam Md Ashraf, Raushanara Akter

DOI: 10.52711/0974-360X.2021.00391 (<https://www.doi.org/10.52711/0974-360X.2021.00391>)

Views: 19 (pdf), 1640 (html)

Access:  Open Access

Cite: Md. Tanvir Kabir, Mayesha Samiha, Hasina Yasmin, Mohammed S. Rahman, Md. Sohanur Rahman, Ghulam Md Ashraf, Raushanara Akter. Free radical scavenging, Thrombolytic and cytotoxic effects of the medicinal herb, *Crassocephalum crepidioides*. *Research Journal of Pharmacy and Technology*. 2021; 14(4):2205-0. doi: 10.52711/0974-360X.2021.00391 (<https://www.doi.org/10.52711/0974-360X.2021.00391>)

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(AbstractView.aspx?

PID=2021-14-
4-67)

Formulation and Standardization of Asava from *Carica papaya* (AbstractView.aspx?PID=2021-14-4-68)

Author(s): Rohile V. Y., Patil V. M., Patil S. S., Desai A. V., Inamdar N. R.

DOI: 10.52711/0974-360X.2021.00392 (<https://www.doi.org/10.52711/0974-360X.2021.00392>)

Views: 53 (pdf), 2671 (html)

Access:  Open Access

Cite: Rohile V. Y., Patil V. M., Patil S. S., Desai A. V., Inamdar N. R. Formulation and Standardization of Asava from *Carica papaya*. *Research Journal of Pharmacy and Technology*. 2021; 14(4):2211-5. doi: 10.52711/0974-360X.2021.00392 (<https://www.doi.org/10.52711/0974-360X.2021.00392>)

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(AbstractView.aspx?

PID=2021-14-
4-68)

Development of Capsule containing Immediate Release Tablet and Extended Release Floating Tablet for Monitoring Release of Atenolol (AbstractView.aspx?PID=2021-14-4-69)

Author(s): Mahesh Hari Kolhe, Ritu Mehra Gilhotra, Govind Sarangdhar Asane

DOI: 10.52711/0974-360X.2021.00393 (<https://www.doi.org/10.52711/0974-360X.2021.00393>)

Views: 27 (pdf), 1554 (html)

Access:  Open Access

Cite: Mahesh Hari Kolhe, Ritu Mehra Gilhotra, Govind Sarangdhar Asane. Development of Capsule containing Immediate Release Tablet and Extended Release Floating Tablet for Monitoring Release of Atenolol. *Research Journal of Pharmacy and Technology*. 2021; 14(4):2216-0. doi: 10.52711/0974-360X.2021.00393 (<https://www.doi.org/10.52711/0974-360X.2021.00393>)

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(AbstractView.aspx?
PID=2021-14-
4-69)

Formulation of Eutectic mixture of Curcumin with Salicylic Acid for improving its Dissolution Profile (AbstractView.aspx?PID=2021-14-4-7)

Author(s): Brahamdutt, Sonia Narwal, Aditay Kumar, Manjusha Chaudhary, Vikas Budhwar

DOI: 10.52711/0974-360X.2021.00331 (<https://www.doi.org/10.52711/0974-360X.2021.00331>)

Views: 81 (pdf), 1700 (html)

Access:  Open Access

Cite: Brahamdutt, Sonia Narwal, Aditay Kumar, Manjusha Chaudhary, Vikas Budhwar. Formulation of Eutectic mixture of Curcumin with Salicylic Acid for improving its Dissolution Profile. *Research Journal of Pharmacy and Technology*. 2021; 14(4):1875-9. doi: 10.52711/0974-360X.2021.00331 (<https://www.doi.org/10.52711/0974-360X.2021.00331>)

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(AbstractView.aspx?
PID=2021-14-
4-7)

Anti-proliferative effects of *Euphorbia hirta* L on the activity of cytotoxicity in bone cancer MG-63 cells (AbstractView.aspx?PID=2021-14-4-70)

Author(s): Subhashini Rajakumaran, Ruth Christiya C

DOI: 10.52711/0974-360X.2021.00394 (<https://www.doi.org/10.52711/0974-360X.2021.00394>)

Views: 8 (pdf), 1218 (html)

Access:  Open Access

Cite: Subhashini Rajakumaran, Ruth Christiya C. Anti-proliferative effects of *Euphorbia hirta* L on the activity of cytotoxicity in bone cancer MG-63 cells. *Research Journal of Pharmacy and Technology*. 2021; 14(4):2221-3. doi: 10.52711/0974-360X.2021.00394 (<https://www.doi.org/10.52711/0974-360X.2021.00394>)

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(AbstractView.aspx?
PID=2021-14-
4-70)

Comparing the efficacy of Neem extract, Aloe vera juice, and 0.2% Chlorhexidine against dental unit waterline pathogens. an In-vitro study (AbstractView.aspx?PID=2021-14-4-71)

Author(s): Shivashankar Kengadaran, Srisakthi. D., Divvi Anusha, Gopinath Prakasam, Kavitha. M, Vigneshwari. S.K

DOI: 10.52711/0974-360X.2021.00395 (<https://www.doi.org/10.52711/0974-360X.2021.00395>)

Views: 31 (pdf), 1683 (html)

Access:  Open Access

Cite: Shivashankar Kengadaran, Srisakthi. D., Divvi Anusha, Gopinath Prakasam, Kavitha. M, Vigneshwari. S.K. Comparing the efficacy of Neem extract, Aloe vera juice, and 0.2% Chlorhexidine against dental unit waterline pathogens. an In-vitro study. *Research Journal of Pharmacy and Technology*. 2021; 14(4):2224-8. doi: 10.52711/0974-360X.2021.00395 (<https://www.doi.org/10.52711/0974-360X.2021.00395>)

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(AbstractView.aspx?
PID=2021-14-
4-71)

Analysis of the Evolutionary pattern of SARS-CoV-2 and its implications in the spread of the disease (AbstractView.aspx?PID=2021-14-4-72)

Author(s): Nagaraja Sree Harsha, Juan Rivas-Santisteban, Roopashree T Satish, G S Kumar

DOI: 10.52711/0974-360X.2021.00396 (<https://www.doi.org/10.52711/0974-360X.2021.00396>)

Views: 0 (pdf), 1448 (html)

Access:  Open Access

Cite: Nagaraja Sree Harsha, Juan Rivas-Santisteban, Roopashree T Satish, G S Kumar. Analysis of the Evolutionary pattern of SARS-CoV-2 and its implications in the spread of the disease. *Research Journal of Pharmacy and Technology*. 2021; 14(4):2229-2. doi: 10.52711/0974-360X.2021.00396 (<https://www.doi.org/10.52711/0974-360X.2021.00396>)

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(AbstractView.aspx?
PID=2021-14-
4-72)

Effect of Cervical Extensor Strengthening on severity of Temporomandibular Joint Disorder among University students: A Randomized controlled trial (AbstractView.aspx?PID=2021-14-4-73)

Author(s): Ilayaraja Alagia Thiruveenkadam, Lee Tze Ling

DOI: 10.52711/0974-360X.2021.00397 (<https://www.doi.org/10.52711/0974-360X.2021.00397>)

Views: 62 (pdf), 1420 (html)

Access:  Open Access

Cite: Ilayaraja Alagia Thiruveenkadam, Lee Tze Ling. Effect of Cervical Extensor Strengthening on severity of Temporomandibular Joint Disorder among University students: A Randomized controlled trial. *Research Journal of Pharmacy and Technology*. 2021; 14(4):2233-2. doi: 10.52711/0974-360X.2021.00397 (<https://www.doi.org/10.52711/0974-360X.2021.00397>)

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(AbstractView.aspx?
PID=2021-14-
4-73)

The Beneficial Effect of Nanostructured Oligochitosan against Gamma Irradiation and/or Carbon Tetrachloride-Induced Hepatic Injury in Rats (AbstractView.aspx?PID=2021-14-4-74)

Author(s): Enas A. Mohamed, Ahmed M. Elbarbary, Nashat M. M. Abd alaty, Nashwa K. Ibrahim, Mahmoud M. Said, Ahmed M. Salem

DOI: 10.52711/0974-360X.2021.00398 (<https://www.doi.org/10.52711/0974-360X.2021.00398>)

Views: 0 (pdf), 1344 (html)

Access:  Open Access

Cite: Enas A. Mohamed, Ahmed M. Elbarbary, Nashat M. M. Abd alaty, Nashwa K. Ibrahim, Mahmoud M. Said, Ahmed M. Salem. The Beneficial Effect of Nanostructured Oligochitosan against Gamma Irradiation and/or Carbon Tetrachloride-Induced Hepatic Injury in Rats. *Research Journal of Pharmacy and Technology*. 2021; 14(4):2243-7. doi: 10.52711/0974-360X.2021.00398 (<https://www.doi.org/10.52711/0974-360X.2021.00398>)

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(AbstractView.aspx?
PID=2021-14-
4-74)

Effect of Immunonutrition supplementation on Post-operative outcome after major Gastrointestinal surgery for Malignancy (AbstractView.aspx?PID=2021-14-4-75)

Author(s): Saraswathy Sivaprasadan, Anju Kochupurackal Paul, Sudhindran Surendran, Uma Devi Padma

DOI: 10.52711/0974-360X.2021.00399 (<https://www.doi.org/10.52711/0974-360X.2021.00399>)

Views: 45 (pdf), 1629 (html)

Access:  Open Access

Cite: Saraswathy Sivaprasadan, Anju Kochupurackal Paul, Sudhindran Surendran, Uma Devi Padma. Effect of Immunonutrition supplementation on Post-operative outcome after major Gastrointestinal surgery for Malignancy. *Research Journal of Pharmacy and Technology*. 2021; 14(4):2258-1. doi: 10.52711/0974-360X.2021.00399 (<https://www.doi.org/10.52711/0974-360X.2021.00399>)

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(AbstractView.aspx?
PID=2021-14-
4-75)

Immuno protective potential of *Sida schimperiana* chloroform root extract against *E. coli* 018: K1 induced peritonitis in albino Wistar rats (AbstractView.aspx?PID=2021-14-4-76)

Author(s): Solomon Yeabyo, Zenebe Teka M, Gopalakrishnan V. K, Kamalakararao K, Muthulingam M, Krishna Chaithanya K

DOI: 10.52711/0974-360X.2021.00400 (<https://www.doi.org/10.52711/0974-360X.2021.00400>)

Views: 0 (pdf), 1022 (html)

Access:  Open Access

Cite: Solomon Yeabyo, Zenebe Teka M, Gopalakrishnan V. K, Kamalakararao K, Muthulingam M, Krishna Chaithanya K. Immuno protective potential of *Sida schimperiana* chloroform root extract against *E. coli* 018: K1 induced peritonitis in albino Wistar rats. *Research Journal of Pharmacy and Technology*. 2021; 14(4):2262-9. doi: 10.52711/0974-360X.2021.00400 (<https://www.doi.org/10.52711/0974-360X.2021.00400>)

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(AbstractView.aspx?
PID=2021-14-
4-76)

Comparative Phytochemicals and Antioxidant activity of various Solvent extracts of *Zanthoxylum armatum* leaves from different Geographical regions of Himachal Pradesh and their correlation analysis (AbstractView.aspx?PID=2021-14-4-77)

Author(s): Manjula Gautam, Vikas Kumar, Sharma, Anuradha Sourirajan, Kamal Dev

DOI: 10.52711/0974-360X.2021.00401 (<https://www.doi.org/10.52711/0974-360X.2021.00401>)

Views: 37 (pdf), 2013 (html)

Access:  Open Access

Cite: Manjula Gautam, Vikas Kumar, Sharma, Anuradha Sourirajan, Kamal Dev. Comparative Phytochemicals and Antioxidant activity of various Solvent extracts of *Zanthoxylum armatum* leaves from different Geographical regions of Himachal Pradesh and their correlation analysis. *Research Journal of Pharmacy and Technology*. 2021; 14(4):2270-6. doi: 10.52711/0974-360X.2021.00401 (<https://www.doi.org/10.52711/0974-360X.2021.00401>)

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(AbstractView.aspx?
PID=2021-14-
4-77)

An Attempt to applying Hydrotropy Technique for Titrimetric estimation of Ketoprofen using Sodium salicylate as Hydrotrope (AbstractView.aspx?PID=2021-14-4-78)

Author(s): Devika Tripathi, Nandini Chaudhary, Dinesh Kumar Sharma, Jagannath Sahoo

DOI: 10.52711/0974-360X.2021.00402 (<https://www.doi.org/10.52711/0974-360X.2021.00402>)

Views: 16 (pdf), 1645 (html)

Access:  Open Access

Cite: Devika Tripathi, Nandini Chaudhary, Dinesh Kumar Sharma, Jagannath Sahoo. An Attempt to applying Hydrotropy Technique for Titrimetric estimation of Ketoprofen using Sodium salicylate as Hydrotrope. *Research Journal of Pharmacy and Technology*. 2021; 14(4):2277-9. doi: 10.52711/0974-360X.2021.00402 (<https://www.doi.org/10.52711/0974-360X.2021.00402>)

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(AbstractView.aspx?
PID=2021-14-
4-78)

The Effect of Chitosan Addition in Acrylic Resin Matrix towards the Residual Monomers and Impact Strength (AbstractView.aspx?PID=2021-14-4-79)

Author(s): Titik Ismiyati, Ananto Ali Alhasyimi

DOI: 10.52711/0974-360X.2021.00403 (<https://www.doi.org/10.52711/0974-360X.2021.00403>)

Views: 96 (pdf), 1348 (html)

Access:  Open Access

Cite: Titik Ismiyati, Ananto Ali Alhasyimi. The Effect of Chitosan Addition in Acrylic Resin Matrix towards the Residual Monomers and Impact Strength. *Research Journal of Pharmacy and Technology*. 2021; 14(4):2280-5. doi: 10.52711/0974-360X.2021.00403 (<https://www.doi.org/10.52711/0974-360X.2021.00403>)

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(AbstractView.aspx?
PID=2021-14-
4-79)

Development, Optimization, and Validation of a Green Spectrofluorimetric method for the determination of Moxifloxacin using an Experimental design approach (AbstractView.aspx?PID=2021-14-4-8)

Author(s): Noha Ibrahim, Eman S. Elzanfaly, Ahmed E. El Gendy, Said A. Hassan

DOI: 10.52711/0974-360X.2021.00332 (<https://www.doi.org/10.52711/0974-360X.2021.00332>)

Views: 16 (pdf), 1540 (html)

Access:  Open Access

Cite: Noha Ibrahim, Eman S. Elzanfaly, Ahmed E. El Gendy, Said A. Hassan. Development, Optimization, and Validation of a Green Spectrofluorimetric method for the determination of Moxifloxacin using an Experimental design approach. *Research Journal of Pharmacy and Technology*. 2021; 14(4):1880-6. doi: 10.52711/0974-360X.2021.00332 (<https://www.doi.org/10.52711/0974-360X.2021.00332>)

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(AbstractView.aspx?
PID=2021-14-
4-8)

Formulation of Para-coumaric Acid Loaded Chitosan Nanoparticles: In Vitro Neuroprotective effect against Neuroblastoma Cell Line (AbstractView.aspx?PID=2021-14-4-80)

Author(s): Dony Lonappan, Dineshkumar B, K. Krishnakumar, Smitha K Nair, R. Rajeshkumar

DOI: 10.52711/0974-360X.2021.00404 (<https://www.doi.org/10.52711/0974-360X.2021.00404>)

Views: 26 (pdf), 1387 (html)

Access:  Open Access

Cite: Dony Lonappan, Dineshkumar B, K. Krishnakumar, Smitha K Nair, R. Rajeshkumar. Formulation of Para-coumaric Acid Loaded Chitosan Nanoparticles: In Vitro Neuroprotective effect against Neuroblastoma Cell Line. *Research Journal of Pharmacy and Technology*. 2021; 14(4):2286-0. doi: 10.52711/0974-360X.2021.00404 (<https://www.doi.org/10.52711/0974-360X.2021.00404>)

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(AbstractView.aspx?
PID=2021-14-
4-80)

A Review: Comparison of Efficacy of Liraglutide Versus Sitagliptin add-on-to Metformin in Type 2 Diabetes Mellitus patients (AbstractView.aspx?PID=2021-14-4-81)

Author(s): A. Kavyasree, P. Geetha, P. Shanmugasundaram

DOI: 10.52711/0974-360X.2021.00405 (<https://www.doi.org/10.52711/0974-360X.2021.00405>)

Views: 22 (pdf), 1355 (html)

Access:  Open Access

Cite: A. Kavyasree, P. Geetha, P. Shanmugasundaram. A Review: Comparison of Efficacy of Liraglutide Versus Sitagliptin add-on-to Metformin in Type 2 Diabetes Mellitus patients. *Research Journal of Pharmacy and Technology*. 2021; 14(4):2291-5. doi: 10.52711/0974-360X.2021.00405 (<https://www.doi.org/10.52711/0974-360X.2021.00405>)

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(AbstractView.aspx?
PID=2021-14-
4-81)

A Review on Epidemiology of Dengue Viral Infection as an Emerging Disease (AbstractView.aspx?PID=2021-14-4-82)

Author(s): Rouhullah Dehghani, Hamid Kassiri

DOI: 10.52711/0974-360X.2021.00406 (<https://www.doi.org/10.52711/0974-360X.2021.00406>)

Views: 42 (pdf), 1654 (html)

Access:  Open Access

Cite: Rouhullah Dehghani, Hamid Kassiri. A Review on Epidemiology of Dengue Viral Infection as an Emerging Disease. *Research Journal of Pharmacy and Technology*. 2021; 14(4):2296-1. doi: 10.52711/0974-360X.2021.00406 (<https://www.doi.org/10.52711/0974-360X.2021.00406>)

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(AbstractView.aspx?
PID=2021-14-
4-82)

A Review on Deadly Nipah Virus - Prevalence and its Management (AbstractView.aspx?PID=2021-14-4-83)

Author(s): *Therese Mathew, Badmanaban. R, Aby Paul, Bharat Mishra*

DOI: 10.52711/0974-360X.2021.00407 (<https://www.doi.org/10.52711/0974-360X.2021.00407>)

Views: 4 (*pdf*), 1600 (*html*)

Access:  Open Access

Cite: *Therese Mathew, Badmanaban. R, Aby Paul, Bharat Mishra. A Review on Deadly Nipah Virus - Prevalence and its Management. Research Journal of Pharmacy and Technology. 2021; 14(4):2302-7. doi: 10.52711/0974-360X.2021.00407 (<https://www.doi.org/10.52711/0974-360X.2021.00407>)*

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(AbstractView.aspx?
PID=2021-14-
4-83)

Epidemiology, Risk, Myths, Pharmacotherapeutic Management and Socio-economic Burden due to Novel COVID-19: A Recent Update (AbstractView.aspx?PID=2021-14-4-84)

Author(s): *Sarfraz Ahmad, Ambreen Shoaib, Md. Sajid Ali, Md. Sarfraz Alam, Nawazish Alam, Maksood Ali, Md. Ali Mujtaba, Ayaz Ahmad, Md. Salahuddin Ansari, Mohammad Daud Ali*

DOI: 10.52711/0974-360X.2021.00408 (<https://www.doi.org/10.52711/0974-360X.2021.00408>)

Views: 1 (*pdf*), 1298 (*html*)

Access:  Open Access

Cite: *Sarfraz Ahmad, Ambreen Shoaib, Md. Sajid Ali, Md. Sarfraz Alam, Nawazish Alam, Maksood Ali, Md. Ali Mujtaba, Ayaz Ahmad, Md. Salahuddin Ansari, Mohammad Daud Ali. Epidemiology, Risk, Myths, Pharmacotherapeutic Management and Socio- economic Burden due to Novel COVID-19: A Recent Update. Research Journal of Pharmacy and Technology. 2021; 14(4):2308-5. doi: 10.52711/0974-360X.2021.00408 (<https://www.doi.org/10.52711/0974-360X.2021.00408>)*

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(AbstractView.aspx?
PID=2021-14-
4-84)

Gastro Retentive Dosage Forms: An excellent carrier system for treatment of Peptic Ulcer (AbstractView.aspx?PID=2021-14-4-85)

Author(s): P S Goudanavar, B. Ramesh, S. R. Fattepur

DOI: 10.52711/0974-360X.2021.00409 (<https://www.doi.org/10.52711/0974-360X.2021.00409>)

Views: 14 (pdf), 1527 (html)

Access:  Open Access

Cite: P S Goudanavar, B. Ramesh, S. R. Fattepur. Gastro Retentive Dosage Forms: An excellent carrier system for treatment of Peptic Ulcer. *Research Journal of Pharmacy and Technology*. 2021; 14(4):2316-0. doi: 10.52711/0974-360X.2021.00409 (<https://www.doi.org/10.52711/0974-360X.2021.00409>)

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(AbstractView.aspx?
PID=2021-14-
4-85)

Nanofibers – A Newer Technology (AbstractView.aspx?PID=2021-14-4-86)

Author(s): Ratnaparkhi M.P., Andhale R.S., Karnawat G.R.

DOI: 10.52711/0974-360X.2021.00410 (<https://www.doi.org/10.52711/0974-360X.2021.00410>)

Views: 52 (pdf), 2335 (html)

Access:  Open Access

Cite: Ratnaparkhi M.P., Andhale R.S., Karnawat G.R. Nanofibers – A Newer Technology. *Research Journal of Pharmacy and Technology*. 2021; 14(4):2321-7. doi: 10.52711/0974-360X.2021.00410 (<https://www.doi.org/10.52711/0974-360X.2021.00410>)

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(AbstractView.aspx?
PID=2021-14-
4-86)

Indian medicinal plants with antidiabetic potential: An overview (AbstractView.aspx?PID=2021-14-4-87)

Author(s): Monika Sahu, Vinod Kumar, Veenu Joshi

DOI: 10.52711/0974-360X.2021.00411 (<https://www.doi.org/10.52711/0974-360X.2021.00411>)

Views: 116 (pdf), 2676 (html)

Access:  Open Access

Cite: Monika Sahu, Vinod Kumar, Veenu Joshi. *Indian medicinal plants with antidiabetic potential: An overview. Research Journal of Pharmacy and Technology.* 2021; 14(4):2328-5. doi: 10.52711/0974-360X.2021.00411 (<https://www.doi.org/10.52711/0974-360X.2021.00411>)

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(AbstractView.aspx?
PID=2021-14-
4-87)

Review on Arakoda (Tafenoquine) and its approach as an Anti-Malarial Agent. (AbstractView.aspx?PID=2021-14-4-88)

Author(s): Syeda Sana, Mohsina Abed

DOI: 10.52711/0974-360X.2021.00412 (<https://www.doi.org/10.52711/0974-360X.2021.00412>)

Views: 4 (pdf), 1830 (html)

Access:  Open Access

Cite: Syeda Sana, Mohsina Abed. *Review on Arakoda (Tafenoquine) and its approach as an Anti-Malarial Agent. Research Journal of Pharmacy and Technology.* 2021; 14(4):2336-0. doi: 10.52711/0974-360X.2021.00412 (<https://www.doi.org/10.52711/0974-360X.2021.00412>)

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(AbstractView.aspx?
PID=2021-14-
4-88)

Structural Neuroimaging Findings in Autism Spectrum Disorder: A Systematic Review (AbstractView.aspx?PID=2021-14-4-89)

Author(s): P. Yugander, M. Jagannath

DOI: 10.52711/0974-360X.2021.00413 (<https://www.doi.org/10.52711/0974-360X.2021.00413>)

Views: 34 (pdf), 1397 (html)

Access:  Open Access

Cite: P. Yugander, M. Jagannath. Structural Neuroimaging Findings in Autism Spectrum Disorder: A Systematic Review. *Research Journal of Pharmacy and Technology*. 2021; 14(4):2341-7. doi: 10.52711/0974-360X.2021.00413 (<https://www.doi.org/10.52711/0974-360X.2021.00413>)

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(AbstractView.aspx?
PID=2021-14-
4-89)

Chronic treatment with Escitalopram Reversed Scopolamine-induced Memory Impairment by enhancing Cholinergic activity in Wistar albino Rats (AbstractView.aspx?PID=2021-14-4-9)

Author(s): Vybhava Krishna, Veena Nayak, Arvind Kumar Pandey, Sweenly V Sunny, K L Bairy

DOI: 10.52711/0974-360X.2021.00333 (<https://www.doi.org/10.52711/0974-360X.2021.00333>)

Views: 16 (pdf), 1005 (html)

Access:  Open Access

Cite: Vybhava Krishna, Veena Nayak, Arvind Kumar Pandey, Sweenly V Sunny, K L Bairy. Chronic treatment with Escitalopram Reversed Scopolamine-induced Memory Impairment by enhancing Cholinergic activity in Wistar albino Rats. *Research Journal of Pharmacy and Technology*. 2021; 14(4):1887-2. doi: 10.52711/0974-360X.2021.00333 (<https://www.doi.org/10.52711/0974-360X.2021.00333>)

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(AbstractView.aspx?
PID=2021-14-
4-9)

Marine Microbial Metabolites: A new wave of drugs for Combating Antimicrobial Resistance (AbstractView.aspx?PID=2021-14-4-90)

Author(s): Venkat Abhiram Earny, Venkatesh Kamath, Anuraag Muralidharan, Vandana K E, Kanav Khera

DOI: 10.52711/0974-360X.2021.00414 (<https://www.doi.org/10.52711/0974-360X.2021.00414>)

Views: 54 (pdf), 1742 (html)

Access:  Open Access

Cite: Venkat Abhiram Earny, Venkatesh Kamath, Anuraag Muralidharan, Vandana K E, Kanav Khera. *Marine Microbial Metabolites: A new wave of drugs for Combating Antimicrobial Resistance*. *Research Journal of Pharmacy and Technology*. 2021; 14(4):2348-2. doi: 10.52711/0974-360X.2021.00414 (<https://www.doi.org/10.52711/0974-360X.2021.00414>)

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(AbstractView.aspx?
PID=2021-14-
4-90)

Cervical Cancer Prevention and Treatment: An Overview (AbstractView.aspx?PID=2021-14-4-91)

Author(s): Sonja Jose, B. R. Balakrishnan

DOI: 10.52711/0974-360X.2021.00415 (<https://www.doi.org/10.52711/0974-360X.2021.00415>)

Views: 1 (pdf), 1345 (html)

Access:  Open Access

Cite: Sonja Jose, B. R. Balakrishnan. *Cervical Cancer Prevention and Treatment: An Overview*. *Research Journal of Pharmacy and Technology*. 2021; 14(4):2353-9. doi: 10.52711/0974-360X.2021.00415 (<https://www.doi.org/10.52711/0974-360X.2021.00415>)

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(AbstractView.aspx?
PID=2021-14-
4-91)

RESEARCH ARTICLE

Structure Modifications of Pinostrobin from Temu Kunci (*Boesenbergia pandurata* ROXB. SCHLECHT) and Their Analgesic Activity Based on in Silico Studies

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ABSTRACT:

Temu kunci (*Boesenbergia pandurata* ROXB. SCHLECHT) is one of Indonesia medicinal plants which contains essential oils and flavonoids and it has interesting pharmacological activities, such as antifungal, antibacterial, antioxidant, anti-inflammatory and anti-cancer. It also contains pinostrobin which potent as anti-inflammatory and analgesic activities through inhibition of COX-2 enzymes. This research was to obtain pinostrobin derivatives of acylation reactions between pinostrobin and acyl chloride derivatives. The structure modifications of pinostrobin were obtained by Schotten-Baumann method through nucleophilic substitution reactions between pinostrobin and acyl chloride derivatives. Their structure had analyzed using the spectrophotometric analysis (NMR, IR, and GC/MS). The investigation of structure modifications of pinostrobin (1) from this plant has demonstrated the presence of pinostrobin acetate (2) and new pinostrobin propionate (3). The 2 and 3 are derivatives of pinostrobin that can be synthesized using the Schotten-Baumann method to yield 84.3% and 73.9%, respectively. The results of in silico study between pinostrobin and pinostrobin acyl derivatives on the COX-2 receptor with a PDB code: 1PXX showed that pinostrobin RS value was -87.18kcal/mol, while pinostrobin propionate had a RS value of -98.61 kcal/mol. It can be predicted that the pinostrobin acyl derivative has greater analgesic activity than pinostrobin, so it is feasible to be developed and carried out research on its analgesic activity in vivo.

KEYWORDS: *Boesenbergia pandurata*, COX-2, in silico, pinostrobin, structure modification

INTRODUCTION:

Structure modification is a method used to obtain a novel drug with the desired several activities, such as increasing drug activity, reducing side effects or toxicity, increasing drug selectivity, and prolonging duration of effect. In addition, molecular modification will provide more economical cost, because to obtain a new drug with the desired activity, the experimental factor is suppressed as far as possible so that the synthesis pathway becomes shorter¹. Protein-Ligand interactions play an important role in designing structural-based drugs. Several docking analysis focuses on several important interactions that operate at the molecular level. For example in structures that have seven-membered rings play an important role in holding molecules in place (binding) of the active site².

Pinostrobin is a flavonoid compound found in temu kunci (*Boesenbergia pandurata* Roxb. Schlecht) rhizome^{3,4,5}. It is effective as an anti-inflammatory⁶ and has analgesic activity, because it can inhibit COX-2 enzyme^{7,8}. It is an enzyme responsible for prostaglandin synthesis involved in acute and chronic inflammatory pathologic processes⁹. Increasing analgesic activity of pinostrobin can be done by structure modified.

Esterification reaction is one of the most widely used reactions in the elderly as a basic chemical reaction in the synthesis of new compounds. In the synthesis of natural products, these reactions have a role in the protection or resolution of the kinetics of carboxylic acids and in the formation of lactones through intramolecular reactions¹⁰.

In 1895, Emil Fischer presented the first esterification reaction, by reacting alcohol and carboxylic acid with acid as reagents¹¹, but this reaction was difficult for phenol esterification. One method that uses phenol esterification is the Schotten-Baumann method. This method works by reacting a phenol with acyl chloride derivative through nucleophilic substitution with alkaline solvent as a catalyst¹².

MATERIALS AND METHODS:

General procedures:

In silico test was analysed by computer processor of intel core i7 with 8GB memory, ChemBioDraw ultra 12.0 program and Molegro Virtual Docker 5.5 program. The ¹H and ¹³C-NMR spectra were performed on a JEOL ICS 400 MHz and 100 MHz, respectively, with a standard internal tetramethylsilane (TMS) to confirm the structure of synthesis results. The IR spectrum of pinostrobin was isolated from the meeting key and its derivatives were measured using PERKIN ELMER Spectrum One FTIR spectrometer in KBr pellets. Determination of the mass spectrum of pinostrobin isolated from key findings and its derivatives were obtained using GC/MS 5977B.

MATERIALS:

Pinostrobin (isolated compound from *Boesenbergia pandurata* Roxb. Schlecht), acetyl chloride (Aldrich), propionyl chloride (Sigma), tetrahydrofuran (Merck), ethyl acetate (Merck), methanol (Merck), hexane (Merck), triethylamine (Merck), chloroform (Merck), CMC-Na (Merck), diclofenac sodium (Dexa Medica) and glacial acetic acid 99.7% (Merck). In the in silico test, pinostrobin was used as a ligand and their modifications of 2 and 3 were stored in 2D and 3D. COX-2 with a PDB code: 1PXX was used as a receptor and downloaded from the Protein Data Bank (Fig.1).

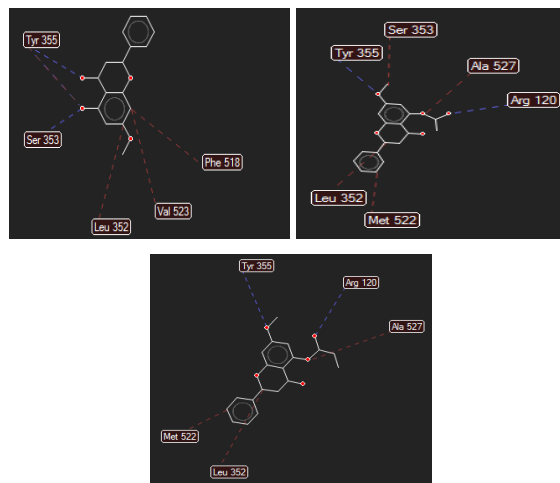


Figure 1. Docking test of pinostrobin (1 in a) and pinostrobin derivatives (2 in b, and 3 in c) on COX-2 receptors with a PDB code of 1PXX receptor; - - - is H bond; - . - is steric interaction.

Plant materials:

The temu kunci rhizomes with 10 months harvest age were collected from Turen village, Malang, Indonesia, and voucher specimens were deposited at the Department of Pharmacognosy and Phytochemistry, Faculty of Pharmacy, Airlangga University, Surabaya, Indonesia.

Pinostrobin isolation:

Temu kunci rhizomes were cleaned of impurities by washing with running water, then they were cut into small pieces and dried by oven at 50°C. The dried plants were finely powdered, weighed, and extracted. Gradually, the 2.0kg of dried powder of these rhizomes were extracted with 20 L *n*-hexane by maceration (3 times). The solvent residues were removed until 1/3 initial volume by a rotary evaporator then obtaining the crystalline isolates. This process was done by taking the precipitate crystals, dissolved with hot methanol and then placed in the refrigerator for 24 hours until in crystal form. The washing process was done 4 times to get white colored crystals, then dried in the oven with a temperature of 50°C and it obtained 38.7g (1.94% w/w) of pinostrobin (1) then it was used as a raw material of the synthesis process of pinostrobin acetate (2) and new pinostrobin propionate (3).

Synthesized of 2 and 3:

The synthesis procedure of pinostrobin derivatives compounds referred to modify Schotten-Baumann reaction^{11,13}. The 11 mmol of 1 was mixed with 10mL tetrahydrofuran in a 250mL round bottom flask. Then it was added by 35mmol acetyl chloride solution in 10ml of tetrahydrofuran gradually at 5°C (ice bath) until run out and stirred by a magnetic stirrer. The mixture was added with 62 mmol triethylamine and let stand for 30 minutes at room temperature. The reaction was complete

when the spot of 1 had disappeared from the stain of silica gel plate 60 GF₂₅₄ and obtained 2. The recrystallization process of 2 was performed using hot methanol. The residue on the filter paper was transferred into a beaker glass, then added with sufficient amount of methanol and placed on a heated magnetic stirrer (70-80°C) while stirring slowly and adding the solvent gradually until dissolved. The solution was filtered in hot conditions. The filtrate was left at room temperature until cool and then stored in the refrigerator for 24 hours (3 times). The formed crystal of 2 was filtered using a Buchner funnel and dried in an oven at a fixed temperature of 50°C, then weighed to determine the percentage by weight of the synthesis product. The same synthesis method was performed on new compound of 3 by mixing 11 mmol of 1 with 35 mmol propionyl chloride.

Table 1. Characteristic of IR spectrum of pinostrobin isolated from temu kunci and its derivatives

Vibration Type	Wave number (cm ⁻¹) of compound		
	1	2	3
OH phenolic	3463.43	-	-
C=O ketone	1699.70	1676.27	1670.40
C=C aromatis	1660.70 1598.38	1617.13 1564.29	1620.32 1566.53
-C-OMe	1358.38 1239.30	1264.19 1246.71	1274.44 1250.63
C=O ester	-	1768.27	1763.44

Pinostrobin (1)

White crystalline, melting point: 98-99°C, R_f: 0.57 (*n*-hexane: ethyl acetate (5:1)), R_f: 0.69 (*n*-hexane: chloroform (2.5:4)), R_f: 0.74 (*n*-hexane: chloroform: ethyl acetate (4:2:1)), characteristic of IR spectrum: see Table 1. ¹H and ¹³C NMR (400 MHz and 100 MHz) recorded in CDCl₃: see Table 2. MS: *m/z* for pinostrobin (C₁₆H₁₄O₄) 270.28; found: 270.1.

Table 2. Characteristic of ¹H and ¹³C-NMR spectra (400 MHz and 100 MHz) of pinostrobin isolated from temu kunci and its derivatives, recorded in chloroform (CDCl₃) (δ in ppm)

Positions	1		2		3	
	δ _H (J in Hz)	δ _C	δ _H (J in Hz)	δ _C	δ _H (J in Hz)	δ _C
1	-	-	-	-	-	-
2	5.39 (dd, 12.8, 3.2)	79.33	5.45 (dd, 13.6, 2.4)	79.67	5.45 (dd, 14.0, 2.8)	79.67
3	3.07 (dd, 17.2, 12.8); 2.81 (dd, 17.2, 3.2)	43.48	3.02 (dd, 16.4, 13.6); 2.72 (dd, 16.4, 2.4)	45.15	3.01 (dd, 14.0, 16.5)	45.20
4	-	195.89	-	188.93	-	188.96
5	-	162.88	-	164.34	-	164.33
5-OH	12.03 (s)	-	-	-	-	-
6	6.07 (d, 3.2)	95.23	6.43 (d, 2.8)	104.88	6.43 (d, 2.8)	104.86
7	-	168.07	-	169.69	-	173.04
7-Ome	3.80 (s)	55.81	3.81 (s)	55.93	3.81 (s)	55.92
8	6.07 (d, 3.2)	94.38	6.28 (d, 2.8)	99.63	6.28 (d, 2.8)	99.58
9	-	164.23	-	165.59	-	165.57
10	-	103.23	-	108.03	-	108.14
11	-	-	-	151.94	-	152.12
12	-	-	2.38 (s)	21.25	2.66-2.74 (m)	27.74
13	-	-	-	-	1.29 (t)	8.82
1'	-	138.46	-	138.48	-	138.52
2'	7.39 (m)	126.25	7.39 (m)	126.27	7.40 (m)	126.25
3'	7.39 (m)	126.25	7.40 (m)	126.27	7.40 (m)	126.25
4'	7.40 (m)	128.99	7.40 (m)	128.99	7.42 (m)	128.98
5'	7.40 (m)	126.25	7.42 (m)	126.27	7.43 (m)	126.25
6'	7.42 (m)	126.25	7.43 (m)	126.27	7.44 (m)	126.25

Pinostrobin acetate (2):

Pale brown crystalline, melting point: 146-147°C, R_f: 0.34 (*n*-hexane: ethyl acetate (5:1)), R_f: 0.29 (*n*-hexane: chloroform (2.5:4)), R_f: 0.54 (*n*-hexane: chloroform: ethyl acetate (4:2:1)), characteristic of IR spectrum: see Table 1. ¹H and ¹³C NMR (400 MHz and 100 MHz) recorded in CDCl₃: see Table 2. MS: *m/z* for pinostrobin acetate (C₁₈H₁₆O₅) 312.32; found: 312.1.

Pinostrobin propionate (3):

White bulk, melting point: 121-122°C, R_f: 0.40 (*n*-hexane: ethyl acetate (5:1)), R_f: 0.34 (*n*-hexane: chloroform (2.5:4)), R_f: 0.60 (*n*-hexane: chloroform:

ethyl acetate (4:2:1)), characteristic of IR spectrum: see Table 1. ¹H and ¹³C NMR (400 MHz and 100 MHz) recorded in CDCl₃: see Table 2. MS: *m/z* for pinostrobin propionate (C₁₉H₁₈O₅) 326.12; found: 326.1.

RESULTS AND DISCUSSION:

Binding drug interactions using docking studies is an essential part of computer-assisted drug design. The structure-based approach is a main role in the process of drug discovery. Designed compounds are examined for the ability of enzyme that play a role in certain therapies and identified as new lead compounds by molecular docking. The strongest compound chosen as lead on

structural modification is a new ligand with excellent binding ability¹⁴. The in silico method can be used to predict certain lead compounds against several activities such as hepatoprotector², cancer⁵, gout¹⁴, cardiovascular¹⁴, jaundice¹⁵, bacteria¹⁶, virus¹⁷, diabetes¹⁸, and analgesic^{9,12,19,20}.

Zadorozhnyi used the PASS-GUSAR software packages¹⁹ and Chinchole used Auto Dock tool 1.5.6-Molinspiration software²⁰ to estimate analgesic activity and acute toxicity of a predictive compound by linking inhibition to the COX-1 and COX-2 enzymes. Therefore, by using the Molegro virtual docker (MVD) software package, silico modeling of this enzyme inhibition has been carried out. MVD is a protein-ligand docking simulation program for docking simulations in fully integrated computing packages and applied to hundreds of different proteins. This model has docking performance that is similar to other docking programs such as AutoDock4 and AutoDock Vina and has four

search algorithms and four original scoring functions²¹. The structure modified by addition acyl groups in 1 formed pinostrobin derivatives of 2 and new 3. The preliminary results using the ChemBioDraw Ultra 12.0 program showed that new compound of 3 had a lipophilic parameter (log P) value of 2.91 and a steric parameter molar refractivity (MR) value of 89.42. Then 1 had a log P value of 2.28 and a MR value of 75.29. Based on the preliminary results, it is necessary to conduct an analgesic activity study of pinostrobin that is isolated from temu kunci and pinostrobin derivatives.

Synthesis of two pinostrobin derivatives, 2 and 3, were done by reacting 11 mmol of 1 with 35 mmol acetyl chloride and propionyl chloride, respectively. Then they carried out in tetrahydrofuran as solvent with slow drop wise. The 62 mmol triethylamine (Et₃N) was added and evaporated. The reaction expressed in figure 2.

Figure 2. Synthesis reaction of pinostrobin derivatives

The phenol group of pinostrobin has a function as a nucleophile that attacks electrophilic carbon of the carbonyl group of acyl chloride derivatives. Tetrahydrofuran was chosen as the solvent because of its solubility and it is easy to evaporate. Drop wise technique was performed in an ice water bath to slow the reaction, regarding the high reactivity of acyl chloride. Triethylamine acted as a nucleophilic reaction catalyst. It neutralized the protons produced during esterification reaction. The latest step of synthesizing was

recrystallized with hot methanol.

Based on the purity results, they obtained 1, 2, and 3. These results were proven by the presence of one spot on the thin layer chromatography (TLC) test using three eluents (see experimental), which have different polarity and also proven by determination of melting point with the value of 1-2°C²². So the synthesized compounds were 84.3% of 2 as white crystalline and 73.9% of 3 as white bulk (Fig. 3).

Figure 3. Chemical structure of 1, 2, and 3

The structures were confirmed using ¹H-NMR and ¹³C-NMR in table 2. Based on their data, compounds 2 and 3 didn't have ¹H-NMR (δH: 12.03, 1H, s, 5-OH) as in 1. Then the ¹H-NMR data at δH 2.38 (s) and 1.29 (t) of 2 and 3 indicated the methyl group. The ¹³C-NMR data at

δC 151.95 and 152.12 of 2 and 3 indicated the carbonyl group at position 11. So the phenol group of 1 changed to ester group of 2 and 3 after synthesis reaction.

The absence of the -OH group (3463.43 cm^{-1}) and the presence of -C=O ester group (1768.27 cm^{-1} and 1763.44 cm^{-1}) indicated that the synthesis of pinostrobin derivatives had been formed (Table 1). The nucleophilic substitution reactions between the isolated pinostrobin from temu kunci with the acyl chloride derivatives obtained an ester bond. The mass spectra data of **1**, **2**, and **3** obtained the signal at m/z 270.1, 312.1, and 326.1 respectively (Fig. 4). So **1**, **2** and **3** were determined as pinostrobin, pinostrobin acetate and pinostrobin propionate, respectively. The pinostrobin propionate (**3**) is a new compound.

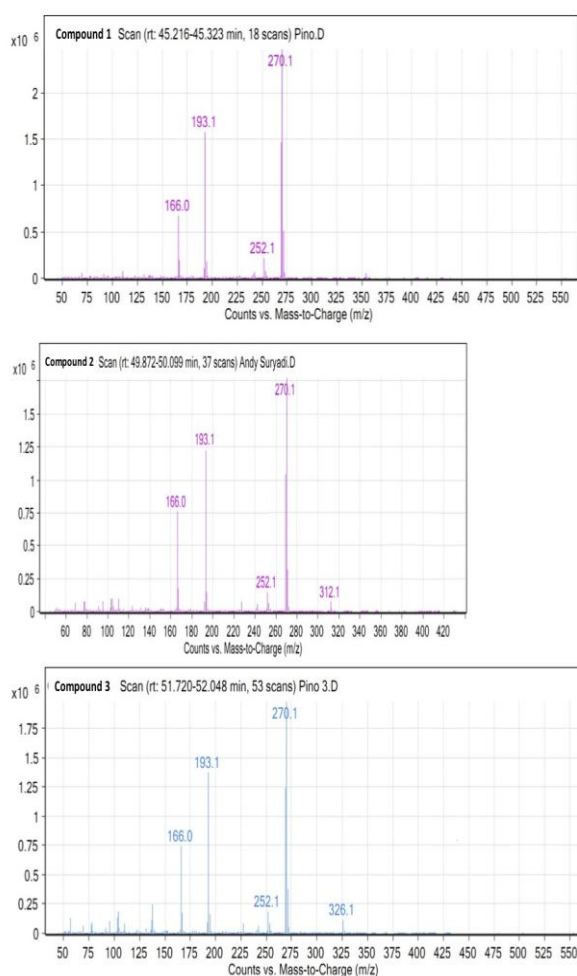


Figure 4. Spectrophotometry mass of **1**, **2**, and **3**

It was also supported by the results of docking test between pinostrobin and pinostrobin derivatives on COX-2 receptors with a PDB code of 1PXX (Fig. 1)²². The re-rank score (RS) value of **1** was -87.18, while compound of **2** and **3** had a RS value of -90.27 and -98.61, respectively (Table 3), so it can be predicted that pinostrobin derivatives have better analgesic activity than pinostrobin.

Table 3. Docking score and ligand-amino acid residu interactions

Compound s	RS (kcal/mol)	Amino Acid Residues	
		Steric-Bond	Hydrogen-Bond
1	-87,18	Phe518; Val523; Leu352; Tyr355	Tyr355; Ser353
2	-90,27	Leu352; Ala527; Ser353	Arg120; Tyr355
3	-98,61	Leu352; Ala527	Arg120; Tyr355

Prostanoids (prostaglandin, prostacyclin, and thromboxane) are an enzyme COX which is responsible for the formation of important biological mediators. COX inhibition can cause symptoms of inflammation and pain. The mechanism of COX-2 formation is the conversion of arachidonic acid to prostaglandins (PGH₂) mediated by COX. COX-2 is an enzyme induced by inflammatory and mitogenic stimuli resulting in increased PG synthesis in inflamed and neoplastic tissues. COX-2 selective inhibitors can be promising agents for cancer prevention and other treatments²³. It related to developed risk of renal, CV and GI²⁴.

CONCLUSION:

Pinostrobin derivatives can be synthesized using an esterification reaction with the Schotten-Baumann method by reacting pinostrobin with acyl chloride derivatives (acetyl chloride and propionyl chloride) through nucleophilic substitution with Et_3N as a catalyst and both pinostrobin derivatives showed analgesic activity against the COX-2 receptor (PDB: 1PXX) that are higher than pinostrobin.

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CONFLICT OF INTEREST:

The authors declare no conflict of interest.

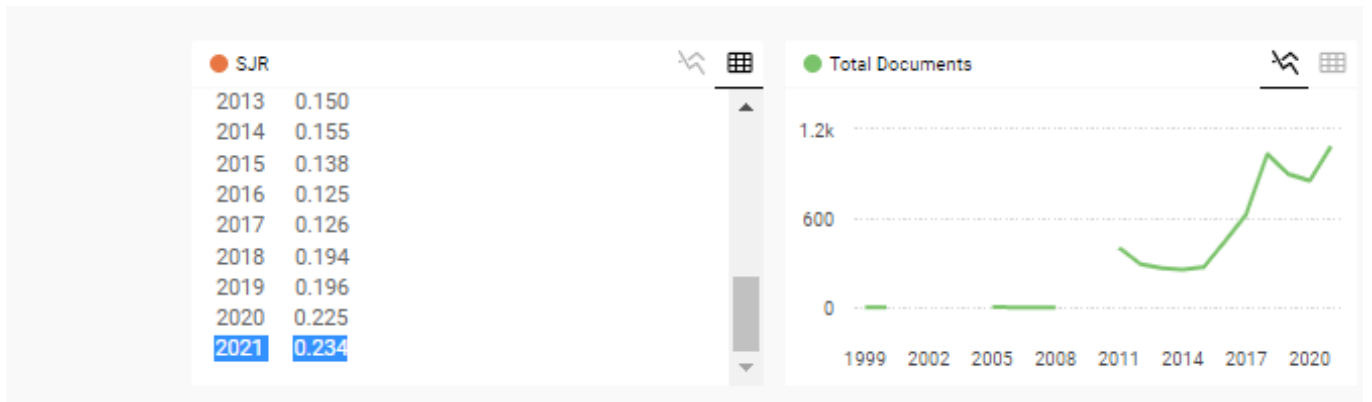
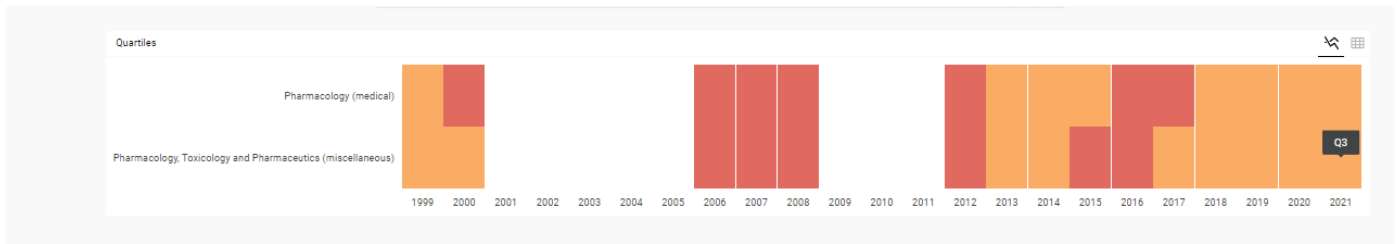
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