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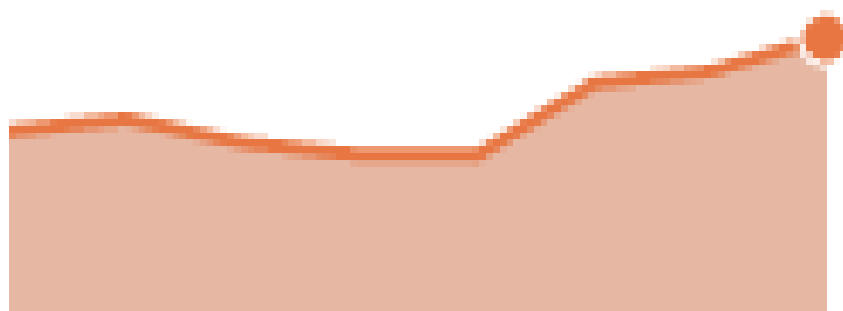
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


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### Synthesis and Cytotoxic Activity of N-(4-bromo)-benzoyl-N'phenylthiourea and 4-(tert-butyl)-N-benzoylurea on Primary Cells of HER2-Positive Breast Cancer (AbstractView.aspx?PID=2021-14-3-1)

Author(s): Aguslina Kirtishanti, Siswandono Siswandono, I Ketut Sudiana

DOI: 10.5958/0974-360X.2021.00213.4 (<https://www.doi.org/10.5958/0974-360X.2021.00213.4>)

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Cite: Aguslina Kirtishanti, Siswandono Siswandono, I Ketut Sudiana. Synthesis and Cytotoxic Activity of N-(4-bromo)-benzoyl-N'phenylthiourea and 4-(tert-butyl)-N-benzoylurea on Primary Cells of HER2-Positive Breast Cancer. Research J. Pharm. and Tech 2021; 14(3):1195-1200. doi: 10.5958/0974-360X.2021.00213.4 (<https://www.doi.org/10.5958/0974-360X.2021.00213.4>)

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PID=2021-14-3-1)

### Healing Effect of Partial Pure Lignan against Renal Impaired Induced by High Fat Diet (AbstractView.aspx?PID=2021-14-3-10)

Author(s): Zahraa Ahmed Okhti, Baydaa H. Abdullah, Mayssaa E. Abdalah

DOI: 10.5958/0974-360X.2021.00222.5 (<https://www.doi.org/10.5958/0974-360X.2021.00222.5>)

Views: 0 (pdf), 502 (html)

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Cite: Zahraa Ahmed Okhti, Baydaa H. Abdullah, Mayssaa E. Abdalah. Healing Effect of Partial Pure Lignan against Renal Impaired Induced by High Fat Diet. Research J. Pharm. and Tech 2021; 14(3):1251-1254. doi: 10.5958/0974-360X.2021.00222.5 (<https://www.doi.org/10.5958/0974-360X.2021.00222.5>)

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PID=2021-14-3-10)

### Polymeric Nanoparticles for Anti-Cancer Treatment- A Review of its Mechanisms (AbstractView.aspx?PID=2021-14-3-100)

Author(s): Deepak Jaitak, Nacchammai K., Pavithra K., Keerthi G. S. Nair, Sathesh Kumar S.

DOI: 10.5958/0974-360X.2021.00311.5 (<https://www.doi.org/10.5958/0974-360X.2021.00311.5>)

Views: 0 (pdf), 609 (html)

Access: Open Access

Cite: Deepak Jaitak, Nacchammai K., Pavithra K., Keerthi G. S. Nair, Sathesh Kumar S. Polymeric Nanoparticles for Anti-Cancer Treatment- A Review of its Mechanisms. Research J. Pharm. and Tech 2021; 14(3):1747-1754. doi: 10.5958/0974-360X.2021.00311.5 (<https://www.doi.org/10.5958/0974-360X.2021.00311.5>)

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PID=2021-14-3-100)

## Novel Antimicrobial Drugs Omadacycline Sarecycline, Eravacycline, and Plazomicin: A Review (AbstractView.aspx?PID=2021-14-3-101)

**Author(s):** Satyaprasad. B. S. Jayakumari

**DOI:** 10.5958/0974-360X.2021.00312.7 (<https://www.doi.org/10.5958/0974-360X.2021.00312.7>)

**Views:** 0 (pdf), 721 (html)

**Access:**  Open Access

**Cite:** Satyaprasad. B. S. Jayakumari. Novel Antimicrobial Drugs Omadacycline Sarecycline, Eravacycline, and Plazomicin: A Review. *Research J. Pharm. and Tech.* 2021; 14(3):1755-1759. doi: 10.5958/0974-360X.2021.00312.7 (<https://www.doi.org/10.5958/0974-360X.2021.00312.7>)

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PID=2021-14-

3-101)

## A Comprehensive Review on Formulation, Preparation, Evaluation and Applications of Medicated Chewing Gum (AbstractView.aspx?PID=2021-14-3-102)

**Author(s):** Archana Gururajbhat, Girish Pai Kulyadi, Vamshi Krishna Tippavajhala

**DOI:** 10.5958/0974-360X.2021.00313.9 (<https://www.doi.org/10.5958/0974-360X.2021.00313.9>)

**Views:** 0 (pdf), 484 (html)

**Access:**  Open Access

**Cite:** Archana Gururajbhat, Girish Pai Kulyadi, Vamshi Krishna Tippavajhala. A Comprehensive Review on Formulation, Preparation, Evaluation and Applications of Medicated Chewing Gum. *Research J. Pharm. and Tech* 2021; 14(3):1760-1766. doi: 10.5958/0974-360X.2021.00313.9 (<https://www.doi.org/10.5958/0974-360X.2021.00313.9>)

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PID=2021-14-

3-102)

## A Systematic Review on Potential Pharmacological Applications of Parkinsonia aculeata. (AbstractView.aspx?PID=2021-14-3-103)

**Author(s):** Krushna K. Zambare, Arun A. Kondapure, Kavya V. Reddy, Avinash B. Thalkari, Pawan N. Karwa, Yogesh P. Nikam, Aashwini A. Gholkar, Ramdas B. Darade

**DOI:** 10.5958/0974-360X.2021.00314.0 (<https://www.doi.org/10.5958/0974-360X.2021.00314.0>)

**Views:** 0 (pdf), 508 (html)

**Access:**  Open Access

**Cite:** Krushna K. Zambare, Arun A. Kondapure, Kavya V. Reddy, Avinash B. Thalkari, Pawan N. Karwa, Yogesh P. Nikam, Aashwini A. Gholkar, Ramdas B. Darade. A Systematic Review on Potential Pharmacological Applications of Parkinsonia aculeata. *Research J. Pharm. and Tech* 2021; 14(3):1767-1770. doi: 10.5958/0974-360X.2021.00314.0 (<https://www.doi.org/10.5958/0974-360X.2021.00314.0>)

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PID=2021-14-

3-103)

## A Systematic Review on Oral Drug Delivery as a Fast Dissolving Film to Improve Therapeutic Effectiveness (AbstractView.aspx?PID=2021-14-3-104)

**Author(s):** Nilesh S. Kulkarni, Puja S. Wakase, Pratiksha S. Indore, Shashikant N. Dhole

**DOI:** 10.5958/0974-360X.2021.00315.2 (<https://www.doi.org/10.5958/0974-360X.2021.00315.2>)

**Views:** 0 (pdf), 621 (html)

**Access:**  Open Access

**Cite:** Nilesh S. Kulkarni, Puja S. Wakase, Pratiksha S. Indore, Shashikant N. Dhole. A Systematic Review on Oral Drug Delivery as a Fast Dissolving Film to Improve Therapeutic Effectiveness. *Research J. Pharm. and Tech* 2021; 14(3):1771-1778. doi: 10.5958/0974-360X.2021.00315.2 (<https://www.doi.org/10.5958/0974-360X.2021.00315.2>)

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PID=2021-14-

3-104)



## A Review on Medicinal and Pharmaceutical importance of Quinoa (*Chenopodium quinoa*) (AbstractView.aspx?PID=2021-14-3-105)

**Author(s):** Sen Amit, Ali Mohammad Irfan, Sharma Gaurav, Tomer Nalini, Moin Sarmad

**DOI:** 10.5958/0974-360X.2021.00316.4 (<https://www.doi.org/10.5958/0974-360X.2021.00316.4>)

**Views:** 0 (pdf), 583 (html)

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**Cite:** Sen Amit, Ali Mohammad Irfan, Sharma Gaurav, Tomer Nalini, Moin Sarmad. A Review on Medicinal and Pharmaceutical importance of Quinoa (*Chenopodium quinoa*). *Research J. Pharm. and Tech.* 2021; 14(3):1779-1784. doi: 10.5958/0974-360X.2021.00316.4 (<https://www.doi.org/10.5958/0974-360X.2021.00316.4>)

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3-105)

## Manufacturing and Designing of Implantable 3D-Printed Medical Devices - An Overview of Regulatory Challenges (AbstractView.aspx?PID=2021-14-3-106)

**Author(s):** Amar S, Balamuralidhara V, T M Pramod Kumar

**DOI:** 10.5958/0974-360X.2021.00317.6 (<https://www.doi.org/10.5958/0974-360X.2021.00317.6>)

**Views:** 0 (pdf), 335 (html)

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**Cite:** Amar S, Balamuralidhara V, T M Pramod Kumar. Manufacturing and Designing of Implantable 3D-Printed Medical Devices - An Overview of Regulatory Challenges. *Research J. Pharm. and Tech* 2021; 14(3):1785-1790. doi: 10.5958/0974-360X.2021.00317.6 (<https://www.doi.org/10.5958/0974-360X.2021.00317.6>)

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3-106)

## Liposome Mediated Pulmonary Drug Delivery System: An updated Review (AbstractView.aspx?PID=2021-14-3-107)

**Author(s):** Susanta Paul, Tathagata Roy, Anannya Bose, Debasmita Chatterjee, Victor Roy Chowdhury, Meghamouli Rana, Ashmita Das

**DOI:** 10.5958/0974-360X.2021.00318.8 (<https://www.doi.org/10.5958/0974-360X.2021.00318.8>)

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**Cite:** Susanta Paul, Tathagata Roy, Anannya Bose, Debasmita Chatterjee, Victor Roy Chowdhury, Meghamouli Rana, Ashmita Das. Liposome Mediated Pulmonary Drug Delivery System: An updated Review. *Research J. Pharm. and Tech* 2021; 14(3):1791-1796. doi: 10.5958/0974-360X.2021.00318.8 (<https://www.doi.org/10.5958/0974-360X.2021.00318.8>)

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PID=2021-14-  
3-107)

## Nanosponges: An Innovative Approach for Targeted Drug Delivery System (AbstractView.aspx?PID=2021-14-3-108)


**Author(s):** Shashikant Sudarshan Upadhye, Srinath Balkundhi, Vishwajeet Sampatrao Ghorpade, Shirishkumar Damodar Ambavade, Sujit Vitthal Abhang, Safina Ismail Mulla, Priya Abhishek Patil

**DOI:** 10.5958/0974-360X.2021.00319.X (<https://www.doi.org/10.5958/0974-360X.2021.00319.X>)

**Views:** 0 (pdf), 448 (html)

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**Cite:** Shashikant Sudarshan Upadhye, Srinath Balkundhi, Vishwajeet Sampatrao Ghorpade, Shirishkumar Damodar Ambavade, Sujit Vitthal Abhang, Safina Ismail Mulla, Priya Abhishek Patil. Nanosponges: An Innovative Approach for Targeted Drug Delivery System. *Research J. Pharm. and Tech* 2021; 14(3):1797-1804. doi: 10.5958/0974-360X.2021.00319.X (<https://www.doi.org/10.5958/0974-360X.2021.00319.X>)

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PID=2021-14-  
3-108)

## Herbal Extracts based Scaffolds for Wound Healing Therapy (AbstractView.aspx?PID=2021-14-3-109)


**Author(s):** Hima Jose, K. Krishnakumar, Dineshkumar B

**DOI:** 10.5958/0974-360X.2021.00320.6 (<https://www.doi.org/10.5958/0974-360X.2021.00320.6>)

**Views:** 0 (pdf), 433 (html)

**Access:**  Open Access

**Cite:** Hima Jose, K. Krishnakumar, Dineshkumar B. Herbal Extracts based Scaffolds for Wound Healing Therapy. *Research J. Pharm. and Tech* 2021; 14(3):1805-1810. doi: 10.5958/0974-360X.2021.00320.6 (<https://www.doi.org/10.5958/0974-360X.2021.00320.6>)

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PID=2021-14-3-109)

## The Anti-epileptic Efficiency of Mesenchymal Stem Cells Against Pilocarpine Model of Acute Epilepsy (AbstractView.aspx?PID=2021-14-3-11)

**Author(s):** Rania S. Salah, Hanaa H. Ahmed, Somia H. Abd-Allah, Rasha E. Hassan, Wagdy K.B. Khalil, Ahmed A. Abd-Rabou, Gilane M. Sabry

**DOI:** 10.5958/0974-360X.2021.00223.7 (<https://www.doi.org/10.5958/0974-360X.2021.00223.7>)

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**Cite:** Rania S. Salah, Hanaa H. Ahmed, Somia H. Abd-Allah, Rasha E. Hassan, Wagdy K.B. Khalil, Ahmed A. Abd-Rabou, Gilane M. Sabry. The Anti-epileptic Efficiency of Mesenchymal Stem Cells Against Pilocarpine Model of Acute Epilepsy. *Research J. Pharm. and Tech* 2021; 14(3):1255-1266. doi: 10.5958/0974-360X.2021.00223.7 (<https://www.doi.org/10.5958/0974-360X.2021.00223.7>)

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PID=2021-14-3-11)

## Emergent Strategy in Management of Inflammatory Bowel Disease: A Narrowed in on Novel Drugs (AbstractView.aspx?PID=2021-14-3-110)

**Author(s):** Srikanta Chandra, Avik Das, Tathagata Roy, Preeta Bose, Susanta Paul, Lucky Mukherjee, Arijit Das

**DOI:** 10.5958/0974-360X.2021.00321.8 (<https://www.doi.org/10.5958/0974-360X.2021.00321.8>)

**Views:** 0 (pdf), 368 (html)

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**Cite:** Srikanta Chandra, Avik Das, Tathagata Roy, Preeta Bose, Susanta Paul, Lucky Mukherjee, Arijit Das. Emergent Strategy in Management of Inflammatory Bowel Disease: A Narrowed in on Novel Drugs. *Research J. Pharm. and Tech*. 2021; 14(3):1811-1814. doi: 10.5958/0974-360X.2021.00321.8 (<https://www.doi.org/10.5958/0974-360X.2021.00321.8>)

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PID=2021-14-3-110)

## A Review on Nanoparticle: Types, Preparation and its Characterization (AbstractView.aspx?PID=2021-14-3-111)

**Author(s):** Ananta Choudhury, Rahela Eyachmin Laskar, Debasish Deka, Kashmiri Sonowal, Suman Saha, Biplab Kumar Dey

**DOI:** 10.5958/0974-360X.2021.00322.X (<https://www.doi.org/10.5958/0974-360X.2021.00322.X>)

**Views:** 0 (pdf), 482 (html)

**Access:**  Open Access

**Cite:** Ananta Choudhury, Rahela Eyachmin Laskar, Debasish Deka, Kashmiri Sonowal, Suman Saha, Biplab Kumar Dey. A Review on Nanoparticle: Types, Preparation and its Characterization. *Research J. Pharm. and Tech*. 2021; 14(3):1815-1822. doi: 10.5958/0974-360X.2021.00322.X (<https://www.doi.org/10.5958/0974-360X.2021.00322.X>)

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PID=2021-14-3-111)

## Vinorelbine: A Potential Breakthrough in Cancer Therapy (AbstractView.aspx?PID=2021-14-3-112)


Author(s): Varsha Bandil, Jeetendra Kumar Gupta, Manoj Goyal

DOI: 10.5958/0974-360X.2021.00323.1 (<https://www.doi.org/10.5958/0974-360X.2021.00323.1>)

Views: 0 (pdf), 364 (html)

Access:  Open Access

Cite: Varsha Bandil, Jeetendra Kumar Gupta, Manoj Goyal. Vinorelbine: A Potential Breakthrough in Cancer Therapy. *Research J. Pharm. and Tech* 2021; 14(3):1823-1827. doi: 10.5958/0974-360X.2021.00323.1 (<https://www.doi.org/10.5958/0974-360X.2021.00323.1>)

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PID=2021-14-3-112)

## Study on Excessive Daytime Sleepiness among Undergraduate Medical Students: Cross Sectional Survey to Study the Risk Factors. (AbstractView.aspx?PID=2021-14-3-113)

Author(s): Mahadeva Rao US, S. Siddharthan, Sowmya. R, Naresh Bhaskar Raj, O. Syazana, R.N. Ain, Y.S. Pong, K.T. Krshanti, Z.M. Luqman

DOI: 10.5958/0974-360X.2021.00324.3 (<https://www.doi.org/10.5958/0974-360X.2021.00324.3>)

Views: 0 (pdf), 426 (html)

Access:  Open Access

Cite: Mahadeva Rao US, S. Siddharthan, Sowmya. R, Naresh Bhaskar Raj, O. Syazana, R.N. Ain, Y.S. Pong, K.T. Krshanti, Z.M. Luqman. Study on Excessive Daytime Sleepiness among Undergraduate Medical Students: Cross Sectional Survey to Study the Risk Factors. *Research J. Pharm. and Tech* 2021; 14(3):1828-1833. doi: 10.5958/0974-360X.2021.00324.3 (<https://www.doi.org/10.5958/0974-360X.2021.00324.3>)

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(AbstractView.aspx?

PID=2021-14-3-113)

## Evaluation of Antidepressant activity of Ficus carica leaves extract in experimental animals (AbstractView.aspx?PID=2021-14-3-12)

Author(s): Sudhir Patil, Prakash Nargatti, Tabassum Shikalgar, Nilofar Naikwade

DOI: 10.5958/0974-360X.2021.00224.9 (<https://www.doi.org/10.5958/0974-360X.2021.00224.9>)

Views: 0 (pdf), 410 (html)

Access:  Open Access

Cite: Sudhir Patil, Prakash Nargatti, Tabassum Shikalgar, Nilofar Naikwade. Evaluation of Antidepressant activity of Ficus carica leaves extract in experimental animals. *Research J. Pharm. and Tech* 2021; 14(3):1267-1273. doi: 10.5958/0974-360X.2021.00224.9 (<https://www.doi.org/10.5958/0974-360X.2021.00224.9>)

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PID=2021-14-3-12)

## To Compare the Effectiveness of Balance Training and Conventional Exercises for Elderly Individuals (AbstractView.aspx?PID=2021-14-3-13)

Author(s): G. Vaishnavi, S. Chandralekha, G. Tharani, K. Kamatchi, K. Kirupa, R. Kamali, R. Rajasri, Rajavel. R

DOI: 10.5958/0974-360X.2021.00225.0 (<https://www.doi.org/10.5958/0974-360X.2021.00225.0>)

Views: 0 (pdf), 355 (html)

Access:  Open Access

Cite: G. Vaishnavi, S. Chandralekha, G. Tharani, K. Kamatchi, K. Kirupa, R. Kamali, R. Rajasri, Rajavel. R. To Compare the Effectiveness of Balance Training and Conventional Exercises for Elderly Individuals. *Research J. Pharm. and Tech* 2021; 14(3):1274-1278. doi: 10.5958/0974-360X.2021.00225.0 (<https://www.doi.org/10.5958/0974-360X.2021.00225.0>)

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PID=2021-14-3-13)

## Novel Pencil Graphite electrode for the Determination of Montelukast sodium in its pure and Pharmaceutical Dosage Forms (AbstractView.aspx?PID=2021-14-3-14)

**Author(s):** Amir Alhaj Sakur, Dania Nashed, Imad Noureldin

**DOI:** 10.5958/0974-360X.2021.00226.2 (<https://www.doi.org/10.5958/0974-360X.2021.00226.2>)

**Views:** 0 (pdf), 278 (html)

**Access:**  Open Access

**Cite:** Amir Alhaj Sakur, Dania Nashed, Imad Noureldin. Novel Pencil Graphite electrode for the Determination of Montelukast sodium in its pure and Pharmaceutical Dosage Forms. *Research J. Pharm. and Tech* 2021; 14(3):1279-1283. doi: 10.5958/0974-360X.2021.00226.2 (<https://www.doi.org/10.5958/0974-360X.2021.00226.2>)

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PID=2021-14-

3-14)

## A new Validated Stability Indicating RP-UFLC Method for the Estimation of Pterostilbene (AbstractView.aspx?PID=2021-14-3-15)

**Author(s):** Kalyani Lingamaneni, Mukthinuthalapati Mathrusri Annapurna

**DOI:** 10.5958/0974-360X.2021.00227.4 (<https://www.doi.org/10.5958/0974-360X.2021.00227.4>)

**Views:** 0 (pdf), 247 (html)

**Access:**  Open Access

**Cite:** Kalyani Lingamaneni, Mukthinuthalapati Mathrusri Annapurna. A new Validated Stability Indicating RP-UFLC Method for the Estimation of Pterostilbene. *Research J. Pharm. and Tech* 2021; 14(3):1284-1288. doi: 10.5958/0974-360X.2021.00227.4 (<https://www.doi.org/10.5958/0974-360X.2021.00227.4>)

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PID=2021-14-

3-15)

## In vitro screening of Anti-diabetic activity and Anti-inflammatory activity of leaves extract of Barleria gibsoni Dalz (AbstractView.aspx?PID=2021-14-3-16)

**Author(s):** Firoj A. Tamboli, Harinath N. More

**DOI:** 10.5958/0974-360X.2021.00228.6 (<https://www.doi.org/10.5958/0974-360X.2021.00228.6>)

**Views:** 0 (pdf), 358 (html)

**Access:**  Open Access

**Cite:** Firoj A. Tamboli, Harinath N. More. In vitro screening of Anti-diabetic activity and Anti-inflammatory activity of leaves extract of Barleria gibsoni Dalz. *Research J. Pharm. and Tech* 2021; 14(3):1289-1292. doi: 10.5958/0974-360X.2021.00228.6 (<https://www.doi.org/10.5958/0974-360X.2021.00228.6>)

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PID=2021-14-

3-16)

## Correlation of Flavonoid content on Antidiabetic activity in red beans (Phaseolus vulgaris L.) and its Processed Products (AbstractView.aspx?PID=2021-14-3-17)

**Author(s):** Novena Yety Lindawati, Dian Puspitasari, Lusia Murtisiwi, Tesia Aisyah Rahmania

**DOI:** 10.5958/0974-360X.2021.00229.8 (<https://www.doi.org/10.5958/0974-360X.2021.00229.8>)

**Views:** 0 (pdf), 253 (html)

**Access:**  Open Access

**Cite:** Novena Yety Lindawati, Dian Puspitasari, Lusia Murtisiwi, Tesia Aisyah Rahmania. Correlation of Flavonoid content on Antidiabetic activity in red beans (Phaseolus vulgaris L.) and its Processed Products. *Research J. Pharm. and Tech*. 2021; 14(3):1293-1297. doi: 10.5958/0974-360X.2021.00229.8 (<https://www.doi.org/10.5958/0974-360X.2021.00229.8>)

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PID=2021-14-

3-17)

## Preparation and Characterization of Aceclofenac-Loaded Amphiphilogels for Transdermal Drug Delivery (AbstractView.aspx?PID=2021-14-3-18)

**Author(s):** Himani Bajaj, Vinod Singh, Ranjit Singh, Tirath Kumar

**DOI:** 10.5958/0974-360X.2021.00230.4 (<https://www.doi.org/10.5958/0974-360X.2021.00230.4>)

**Views:** 0 (pdf), 457 (html)

**Access:**  Open Access

**Cite:** Himani Bajaj, Vinod Singh, Ranjit Singh, Tirath Kumar. Preparation and Characterization of Aceclofenac-Loaded Amphiphilogels for Transdermal Drug Delivery. *Research J. Pharm. and Tech* 2021; 14(3):1298-1304. doi: 10.5958/0974-360X.2021.00230.4 (<https://www.doi.org/10.5958/0974-360X.2021.00230.4>)

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3-18)

## Approved stability indicating Reversed-phase-high performance liquid chromatographic assay method for Palonosetron HCl in Formulations (AbstractView.aspx?PID=2021-14-3-19)

**Author(s):** Suresh Gandhi, A. Manikandan

**DOI:** 10.5958/0974-360X.2021.00231.6 (<https://www.doi.org/10.5958/0974-360X.2021.00231.6>)

**Views:** 0 (pdf), 325 (html)

**Access:**  Open Access

**Cite:** Suresh Gandhi, A. Manikandan. Approved stability indicating Reversed-phase-high performance liquid chromatographic assay method for Palonosetron HCl in Formulations. *Research J. Pharm. and Tech* 2021; 14(3):1305-1309. doi: 10.5958/0974-360X.2021.00231.6 (<https://www.doi.org/10.5958/0974-360X.2021.00231.6>)

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PID=2021-14-

3-19)

## Formulation development of Empagliflozin and Metformin hydrochloride extended release Tablets: Optimization of Formulation using statistical experimental design (AbstractView.aspx?PID=2021-14-3-2)

**Author(s):** Rajarao Chinta, Rohini P.

**DOI:** 10.5958/0974-360X.2021.00214.6 (<https://www.doi.org/10.5958/0974-360X.2021.00214.6>)

**Views:** 0 (pdf), 556 (html)

**Access:**  Open Access

**Cite:** Rajarao Chinta, Rohini P. Formulation development of Empagliflozin and Metformin hydrochloride extended release Tablets: Optimization of Formulation using statistical experimental design. *Research J. Pharm. and Tech* 2021; 14(3):1201-1208. doi: 10.5958/0974-360X.2021.00214.6 (<https://www.doi.org/10.5958/0974-360X.2021.00214.6>)

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3-2)

## In vitro Urolithiasis activity of Thinopyrum intermedium methanolic extract on calcium oxalate crystals prepared by Precipitation method (AbstractView.aspx?PID=2021-14-3-20)


**Author(s):** Aithamraju Satishchandra, M. Surya Teja, V. Sravani, M. Chinna Eshwariah

**DOI:** 10.5958/0974-360X.2021.00232.8 (<https://www.doi.org/10.5958/0974-360X.2021.00232.8>)

**Views:** 0 (pdf), 222 (html)

**Access:**  Open Access

**Cite:** Aithamraju Satishchandra, M. Surya Teja, V. Sravani, M. Chinna Eshwariah. In vitro Urolithiasis activity of Thinopyrum intermedium methanolic extract on calcium oxalate crystals prepared by Precipitation method. *Research J. Pharm. and Tech* 2021; 14(3):1310-1312. doi: 10.5958/0974-360X.2021.00232.8 (<https://www.doi.org/10.5958/0974-360X.2021.00232.8>)

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(AbstractView.aspx?

PID=2021-14-

3-20)

## Formulation and Evaluation of Anti-Arthritis Drug Loaded Stealth Liposomes (AbstractView.aspx?PID=2021-14-3-21)


**Author(s):** Jerin Annie Thomas, Shajan Abraham, Steffy P Raju, Christina Das, Anu Abraham, Shithin Ann Varghese, Elesy Abraham

**DOI:** 10.5958/0974-360X.2021.00233.X (<https://www.doi.org/10.5958/0974-360X.2021.00233.X>)

**Views:** 0 (pdf), 271 (html)

**Access:**  Open Access

**Cite:** Jerin Annie Thomas, Shajan Abraham, Steffy P Raju, Christina Das, Anu Abraham, Shithin Ann Varghese, Elesy Abraham. Formulation and Evaluation of Anti-Arthritis Drug Loaded Stealth Liposomes. *Research J. Pharm. and Tech* 2021; 14(3):1313-1318. doi: 10.5958/0974-360X.2021.00233.X (<https://www.doi.org/10.5958/0974-360X.2021.00233.X>)

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(AbstractView.aspx?

PID=2021-14-3-21)

## Study on the ability of producing of conjugated Linoleic acid of Lactobacillus fermentum A01 isolated from human digestive tract (AbstractView.aspx?PID=2021-14-3-22)

**Author(s):** Nguyen Pham Quynh Anh, Tran Thi Hai Yen, Doan Thi Thanh Vinh, Tran Phu Tien, Nguyen Anh Dung, Nguyen Hoang Khue Tu

**DOI:** 10.5958/0974-360X.2021.00234.1 (<https://www.doi.org/10.5958/0974-360X.2021.00234.1>)

**Views:** 0 (pdf), 319 (html)

**Access:**  Open Access

**Cite:** Nguyen Pham Quynh Anh, Tran Thi Hai Yen, Doan Thi Thanh Vinh, Tran Phu Tien, Nguyen Anh Dung, Nguyen Hoang Khue Tu. Study on the ability of producing of conjugated Linoleic acid of Lactobacillus fermentum A01 isolated from human digestive tract. *Research J. Pharm. and Tech* 2021; 14(3):1319-1322. doi: 10.5958/0974-360X.2021.00234.1 (<https://www.doi.org/10.5958/0974-360X.2021.00234.1>)

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(AbstractView.aspx?

PID=2021-14-3-22)

## Development and Validation of New RP- HPLC Method for the Simultaneous Estimation of Metformin Hydrochloride and Repaglinide in Pure and Pharmaceutical Formulations (AbstractView.aspx?PID=2021-14-3-23)

**Author(s):** Afroz Patan, Syed Reeyaz Basha, Ravi Kumar Ketha, Binoy Vargheese Cherian, Vijey Aanandhi Muthukumar

**DOI:** 10.5958/0974-360X.2021.00235.3 (<https://www.doi.org/10.5958/0974-360X.2021.00235.3>)

**Views:** 0 (pdf), 267 (html)

**Access:**  Open Access

**Cite:** Afroz Patan, Syed Reeyaz Basha, Ravi Kumar Ketha, Binoy Vargheese Cherian, Vijey Aanandhi Muthukumar. Development and Validation of New RP- HPLC Method for the Simultaneous Estimation of Metformin Hydrochloride and Repaglinide in Pure and Pharmaceutical Formulations. *Research J. Pharm. and Tech* 2021; 14(3):1323-1328. doi: 10.5958/0974-360X.2021.00235.3 (<https://www.doi.org/10.5958/0974-360X.2021.00235.3>)

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(AbstractView.aspx?

PID=2021-14-3-23)

## Study of Amino Acid Composition and Immunomodulatory Activity of Rubus idaeus Alcoholic Extract (AbstractView.aspx?PID=2021-14-3-24)

**Author(s):** Mykola A. Komisarenko, Ivan M. Polischuk, Taras V. Upyr, Narzullo B. Saidov

**DOI:** 10.5958/0974-360X.2021.00236.5 (<https://www.doi.org/10.5958/0974-360X.2021.00236.5>)

**Views:** 0 (pdf), 241 (html)

**Access:**  Open Access

**Cite:** Mykola A. Komisarenko, Ivan M. Polischuk, Taras V. Upyr, Narzullo B. Saidov. Study of Amino Acid Composition and Immunomodulatory Activity of Rubus idaeus Alcoholic Extract. *Research J. Pharm. and Tech*. 2021; 14(3):1329-1332. doi: 10.5958/0974-360X.2021.00236.5 (<https://www.doi.org/10.5958/0974-360X.2021.00236.5>)

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(AbstractView.aspx?

PID=2021-14-3-24)

## Reverse Phase High Performance Liquid Chromatographic Method for the Simultaneous Determination of Clarithromycin, Tinidazole and Rabeprazole in combined Formulations (AbstractView.aspx?PID=2021-14-3-25)

Author(s): Sri Datla VVSSN. Raju, A. Manikandan

DOI: 10.5958/0974-360X.2021.00237.7 (<https://www.doi.org/10.5958/0974-360X.2021.00237.7>)

Views: 0 (pdf), 251 (html)

Access:  Open Access

Cite: Sri Datla VVSSN. Raju, A. Manikandan. Reverse Phase High Performance Liquid Chromatographic Method for the Simultaneous Determination of Clarithromycin, Tinidazole and Rabeprazole in combined Formulations. *Research J. Pharm. and Tech* 2021; 14(3):1333-1338. doi: 10.5958/0974-360X.2021.00237.7 (<https://www.doi.org/10.5958/0974-360X.2021.00237.7>)

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(AbstractView.aspx?

PID=2021-14-

3-25)

## Antibacterial activity of Solanum elaeagnifolium Cav. stem and leaf extract against human pathogenic bacteria (AbstractView.aspx?PID=2021-14-3-26)

Author(s): S. Balavivekanathan, T. Francis Xavier, S. R. Senthil Kumar, R. Sabitha

DOI: 10.5958/0974-360X.2021.00238.9 (<https://www.doi.org/10.5958/0974-360X.2021.00238.9>)

Views: 0 (pdf), 274 (html)

Access:  Open Access

Cite: S. Balavivekanathan, T. Francis Xavier, S. R. Senthil Kumar, R. Sabitha. Antibacterial activity of Solanum elaeagnifolium Cav. stem and leaf extract against human pathogenic bacteria. *Research J. Pharm. and Tech* 2021; 14(3):1339-1345. doi: 10.5958/0974-360X.2021.00238.9 (<https://www.doi.org/10.5958/0974-360X.2021.00238.9>)

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(AbstractView.aspx?

PID=2021-14-

3-26)

## Preparation of New Herbal Formula for Treatment and Management of Superficial Vaginal Infection (AbstractView.aspx?PID=2021-14-3-27)

Author(s): Fouad H. Kamel, Mahabad Mohammed Hussein, Hemn Kareem Qadir, Lanja Sami Hamid

DOI: 10.5958/0974-360X.2021.00239.0 (<https://www.doi.org/10.5958/0974-360X.2021.00239.0>)

Views: 0 (pdf), 358 (html)

Access:  Open Access

Cite: Fouad H. Kamel, Mahabad Mohammed Hussein, Hemn Kareem Qadir, Lanja Sami Hamid. Preparation of New Herbal Formula for Treatment and Management of Superficial Vaginal Infection. *Research J. Pharm. and Tech* 2021; 14(3):1346-1348. doi: 10.5958/0974-360X.2021.00239.0 (<https://www.doi.org/10.5958/0974-360X.2021.00239.0>)

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(AbstractView.aspx?

PID=2021-14-

3-27)

## Comparison of bolus phenylephrine, Ephedrine and Mephentermine for maintenance of Arterial pressure during Spinal anaesthesia in Caesarean section (AbstractView.aspx?PID=2021-14-3-28)

Author(s): Aruna V. Chandak, Deepjit Bhuyan, Amol P. Singam, Bhakti Patil

DOI: 10.5958/0974-360X.2021.00240.7 (<https://www.doi.org/10.5958/0974-360X.2021.00240.7>)

Views: 0 (pdf), 209 (html)

Access:  Open Access

Cite: Aruna V. Chandak, Deepjit Bhuyan, Amol P. Singam, Bhakti Patil. Comparison of bolus phenylephrine, Ephedrine and Mephentermine for maintenance of Arterial pressure during Spinal anaesthesia in Caesarean section. *Research J. Pharm. and Tech* 2021; 14(3):1349-1352. doi: 10.5958/0974-360X.2021.00240.7 (<https://www.doi.org/10.5958/0974-360X.2021.00240.7>)

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(AbstractView.aspx?

PID=2021-14-

3-28)

## Screening of effective formulation techniques for Designing and Fabrication of Terbinafine hydrochloride ethosomes (AbstractView.aspx?PID=2021-14-3-29)

**Author(s):** Ashok A. Hajare, Hemalata S. Dol

**DOI:** 10.5958/0974-360X.2021.00241.9 (<https://www.doi.org/10.5958/0974-360X.2021.00241.9>)

**Views:** 0 (pdf), 242 (html)

**Access:**  Open Access

**Cite:** Ashok A. Hajare, Hemalata S. Dol. Screening of effective formulation techniques for Designing and Fabrication of Terbinafine hydrochloride ethosomes. *Research J. Pharm. and Tech.* 2021; 14(3):1353-1359. doi: 10.5958/0974-360X.2021.00241.9 (<https://www.doi.org/10.5958/0974-360X.2021.00241.9>)

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(AbstractView.aspx?  
PID=2021-14-  
3-29)

## Development and Characterization of Reverse Micelle based Pluronic Lecithin Organogel containing Imatinib Mesylate (AbstractView.aspx?PID=2021-14-3-3)

**Author(s):** R. Niithya, Binita Kumari

**DOI:** 10.5958/0974-360X.2021.00215.8 (<https://www.doi.org/10.5958/0974-360X.2021.00215.8>)

**Views:** 0 (pdf), 280 (html)

**Access:**  Open Access

**Cite:** R. Niithya, Binita Kumari. Development and Characterization of Reverse Micelle based Pluronic Lecithin Organogel containing Imatinib Mesylate. *Research J. Pharm. and Tech* 2021; 14(3):1209-1214. doi: 10.5958/0974-360X.2021.00215.8 (<https://www.doi.org/10.5958/0974-360X.2021.00215.8>)

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

## Immunomodulating effect of Polysaccharide Krestin from *Cariolus versicolor* grown in Indonesia against Rheumatoid arthritis in Rat (AbstractView.aspx?PID=2021-14-3-30)

**Author(s):** Diah Purwaningsari, Jusak Nugraha, Sri Puji Astuti Wahyuningsih, Suhailah Hayaza, Raden Joko Kuncoroningrat Susilo, Hunsu Punnapayak, Ruey-An Doong, Win Darmanto

**DOI:** 10.5958/0974-360X.2021.00242.0 (<https://www.doi.org/10.5958/0974-360X.2021.00242.0>)

**Views:** 0 (pdf), 334 (html)

**Access:**  Open Access

**Cite:** Diah Purwaningsari, Jusak Nugraha, Sri Puji Astuti Wahyuningsih, Suhailah Hayaza, Raden Joko Kuncoroningrat Susilo, Hunsu Punnapayak, Ruey-An Doong, Win Darmanto. Immunomodulating effect of Polysaccharide Krestin from *Cariolus versicolor* grown in Indonesia against Rheumatoid arthritis in Rat. *Research J. Pharm. and Tech.* 2021; 14(3):1360-1364. doi: 10.5958/0974-360X.2021.00242.0 (<https://www.doi.org/10.5958/0974-360X.2021.00242.0>)

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(AbstractView.aspx?  
PID=2021-14-  
3-30)

## Stability Indicating RP-HPLC Method for Simultaneous Estimation of Aspirin and Prasugrel in Combination Capsule Dosage (AbstractView.aspx?PID=2021-14-3-31)

**Author(s):** Naga Venkata Suresh Kumar Devaka, Yugandhar Parepalli, Vallabhaneni Madhusudhan Rao

**DOI:** 10.5958/0974-360X.2021.00243.2 (<https://www.doi.org/10.5958/0974-360X.2021.00243.2>)

**Views:** 0 (pdf), 363 (html)

**Access:**  Open Access

**Cite:** Naga Venkata Suresh Kumar Devaka, Yugandhar Parepalli, Vallabhaneni Madhusudhan Rao. Stability Indicating RP-HPLC Method for Simultaneous Estimation of Aspirin and Prasugrel in Combination Capsule Dosage. *Research J. Pharm. and Tech* 2021; 14(3):1365-1369. doi: 10.5958/0974-360X.2021.00243.2 (<https://www.doi.org/10.5958/0974-360X.2021.00243.2>)

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(AbstractView.aspx?  
PID=2021-14-  
3-31)



## Analytical Method Development and Validation of Glipizide by RP-UPLC Method (AbstractView.aspx?PID=2021-14-3-32)


**Author(s):** Sanapala Srinivasa Rao, A. Vijayalakshmi

**DOI:** 10.5958/0974-360X.2021.00244.4 (<https://www.doi.org/10.5958/0974-360X.2021.00244.4>)

**Views:** 0 (pdf), 319 (html)

**Access:**  Open Access

**Cite:** Sanapala Srinivasa Rao, A. Vijayalakshmi. Analytical Method Development and Validation of Glipizide by RP-UPLC Method. *Research J. Pharm. and Tech* 2021; 14(3):1370-1374. doi: 10.5958/0974-360X.2021.00244.4 (<https://www.doi.org/10.5958/0974-360X.2021.00244.4>)

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(AbstractView.aspx?

PID=2021-14-3-32)

## Antidiabetic activity of Polyherbal formulations from Chhattisgarh State (AbstractView.aspx?PID=2021-14-3-33)

**Author(s):** Amit Roy, Pushpa P. Gupta, Shiv Bharadwaj, Shashikant Chandrakar

**DOI:** 10.5958/0974-360X.2021.00245.6 (<https://www.doi.org/10.5958/0974-360X.2021.00245.6>)

**Views:** 0 (pdf), 210 (html)

**Access:**  Open Access

**Cite:** Amit Roy, Pushpa P. Gupta, Shiv Bharadwaj, Shashikant Chandrakar. Antidiabetic activity of Polyherbal formulations from Chhattisgarh State. *Research J. Pharm. and Tech*. 2021; 14(3):1375-1379. doi: 10.5958/0974-360X.2021.00245.6 (<https://www.doi.org/10.5958/0974-360X.2021.00245.6>)

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(AbstractView.aspx?

PID=2021-14-3-33)

## Bacteriological and Molecular study on S. aureus bacteria (AbstractView.aspx?PID=2021-14-3-34)

**Author(s):** Mohmmed Lefta Atala

**DOI:** 10.5958/0974-360X.2021.00246.8 (<https://www.doi.org/10.5958/0974-360X.2021.00246.8>)

**Views:** 0 (pdf), 244 (html)

**Access:**  Open Access

**Cite:** Mohmmed Lefta Atala. Bacteriological and Molecular study on S. aureus bacteria. *Research J. Pharm. and Tech* 2021; 14(3):1380-1384. doi: 10.5958/0974-360X.2021.00246.8 (<https://www.doi.org/10.5958/0974-360X.2021.00246.8>)

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(AbstractView.aspx?

PID=2021-14-3-34)

## Stability Indicating Method Development and Validation of Semaglutide by RP-HPLC in Pharmaceutical substance and Pharmaceutical Product (AbstractView.aspx?PID=2021-14-3-35)

**Author(s):** Merugu Manasa, Vijey Aanandhi M

**DOI:** 10.5958/0974-360X.2021.00247.X (<https://www.doi.org/10.5958/0974-360X.2021.00247.X>)

**Views:** 0 (pdf), 579 (html)

**Access:**  Open Access

**Cite:** Merugu Manasa, Vijey Aanandhi M. Stability Indicating Method Development and Validation of Semaglutide by RP-HPLC in Pharmaceutical substance and Pharmaceutical Product. *Research J. Pharm. and Tech* 2021; 14(3):1385-1389. doi: 10.5958/0974-360X.2021.00247.X (<https://www.doi.org/10.5958/0974-360X.2021.00247.X>)

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(AbstractView.aspx?

PID=2021-14-3-35)

## Effect of 2,4-D and BAP on Callus Induction of Piper retrofractum Vahl. (AbstractView.aspx?PID=2021-14-3-36)

**Author(s):** Junairiah, Jamilatul Arofah, Y. Sri Wulan Manuhara, Tri Nurhariyati, Ni'matuzahroh

**DOI:** 10.5958/0974-360X.2021.00248.1 (<https://www.doi.org/10.5958/0974-360X.2021.00248.1>)

**Views:** 0 (pdf), 395 (html)

**Access:**  Open Access

**Cite:** Junairiah, Jamilatul Arofah, Y. Sri Wulan Manuhara, Tri Nurhariyati, Ni'matuzahroh. Effect of 2,4-D and BAP on Callus Induction of Piper retrofractum Vahl. *Research J. Pharm. and Tech* 2021; 14(3):1390-1394. doi: 10.5958/0974-360X.2021.00248.1 (<https://www.doi.org/10.5958/0974-360X.2021.00248.1>)

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(AbstractView.aspx?

PID=2021-14-3-36)

## Drug Utilization Evaluation of Olanzapine and Assessment of Adverse Drug Reactions associated in Psychotic patients in a Tertiary Care Hospital (AbstractView.aspx?PID=2021-14-3-37)

**Author(s):** Divya A., Veda N. Shetageri, Vinod K Mathew

**DOI:** 10.5958/0974-360X.2021.00249.3 (<https://www.doi.org/10.5958/0974-360X.2021.00249.3>)

**Views:** 0 (pdf), 459 (html)

**Access:**  Open Access

**Cite:** Divya A., Veda N. Shetageri, Vinod K Mathew. Drug Utilization Evaluation of Olanzapine and Assessment of Adverse Drug Reactions associated in Psychotic patients in a Tertiary Care Hospital. *Research J. Pharm. and Tech* 2021; 14(3):1395-1399. doi: 10.5958/0974-360X.2021.00249.3 (<https://www.doi.org/10.5958/0974-360X.2021.00249.3>)

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(AbstractView.aspx?  
PID=2021-14-  
3-37)

## GC MS analysis of one Ayurvedic formulation "Nasika churnam" (AbstractView.aspx?PID=2021-14-3-38)

**Author(s):** Sharmila D, Poovarasana A, Pradeep E, Mudiganti Ram Krishna Rao, Prabhu K

**DOI:** 10.5958/0974-360X.2021.00250.X (<https://www.doi.org/10.5958/0974-360X.2021.00250.X>)

**Views:** 0 (pdf), 356 (html)

**Access:**  Open Access

**Cite:** Sharmila D, Poovarasana A, Pradeep E, Mudiganti Ram Krishna Rao, Prabhu K. GC MS analysis of one Ayurvedic formulation "Nasika churnam". *Research J. Pharm. and Tech* 2021; 14(3):1400-1404. doi: 10.5958/0974-360X.2021.00250.X (<https://www.doi.org/10.5958/0974-360X.2021.00250.X>)

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(AbstractView.aspx?  
PID=2021-14-  
3-38)

## Molecular docking and Simulation study to identify Antiviral agent by targeting MX protein against Betanodavirus causing viral nervous necrosis in Barramundi (AbstractView.aspx?PID=2021-14-3-39)

**Author(s):** Ruby Singh, K. Pani Prasad, Anshul Tiwari, Ajey Pathak, Prachi Srivastava

**DOI:** 10.5958/0974-360X.2021.00251.1 (<https://www.doi.org/10.5958/0974-360X.2021.00251.1>)

**Views:** 0 (pdf), 375 (html)

**Access:**  Open Access

**Cite:** Ruby Singh, K. Pani Prasad, Anshul Tiwari, Ajey Pathak, Prachi Srivastava. Molecular docking and Simulation study to identify Antiviral agent by targeting MX protein against Betanodavirus causing viral nervous necrosis in Barramundi. *Research J. Pharm. and Tech* 2021; 14(3):1405-1411. doi: 10.5958/0974-360X.2021.00251.1 (<https://www.doi.org/10.5958/0974-360X.2021.00251.1>)

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(AbstractView.aspx?  
PID=2021-14-  
3-39)

## High Sensitivity Spectrophotometric Methods for the Determination of Zolmitriptan in Pharmaceutical Formulations (AbstractView.aspx?PID=2021-14-3-4)

**Author(s):** Banana Alfares, Amir Alhaj Sakur

**DOI:** 10.5958/0974-360X.2021.00216.X (<https://www.doi.org/10.5958/0974-360X.2021.00216.X>)

**Views:** 0 (pdf), 256 (html)

**Access:**  Open Access

**Cite:** Banana Alfares, Amir Alhaj Sakur. High Sensitivity Spectrophotometric Methods for the Determination of Zolmitriptan in Pharmaceutical Formulations. *Research J. Pharm. and Tech.* 2021;14(3):1215-1220. doi: 10.5958/0974-360X.2021.00216.X (<https://www.doi.org/10.5958/0974-360X.2021.00216.X>)

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

## Stability Indicating RP-UPLC Method for Simultaneous Estimation of Atazanavir and Cobicistat in Bulk and Tablet Dosage Forms (AbstractView.aspx?PID=2021-14-3-40)

**Author(s):** Venkata Padmini M., Gowri Sankar D.

**DOI:** 10.5958/0974-360X.2021.00252.3 (<https://www.doi.org/10.5958/0974-360X.2021.00252.3>)

**Views:** 0 (pdf), 377 (html)

**Access:**  Open Access

**Cite:** Venkata Padmini M., Gowri Sankar D. Stability Indicating RP-UPLC Method for Simultaneous Estimation of Atazanavir and Cobicistat in Bulk and Tablet Dosage Forms. *Research J. Pharm. and Tech* 2021; 14(3):1412-1416. doi: 10.5958/0974-360X.2021.00252.3 (<https://www.doi.org/10.5958/0974-360X.2021.00252.3>)

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(AbstractView.aspx?  
PID=2021-14-  
3-40)

## Orexin A hormone and its relation to Coronary heart diseases (AbstractView.aspx?PID=2021-14-3-41)

**Author(s):** Rana F. Jasim, Thikra A. Allwsh

**DOI:** 10.5958/0974-360X.2021.00253.5 (<https://www.doi.org/10.5958/0974-360X.2021.00253.5>)

**Views:** 0 (pdf), 238 (html)

**Access:**  Open Access

**Cite:** Rana F. Jasim, Thikra A. Allwsh. Orexin A hormone and its relation to Coronary heart diseases. *Research J. Pharm. and Tech* 2021; 14(3):1417-1422. doi: 10.5958/0974-360X.2021.00253.5 (<https://www.doi.org/10.5958/0974-360X.2021.00253.5>)

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(AbstractView.aspx?  
PID=2021-14-  
3-41)

## Formulation Development, Ex vivo Evaluation and In vivo Antihypertensive study of Losartan Potassium Loaded Nanoproniosomal Gel: A Novel Vesicular Approach for Transdermal Delivery (AbstractView.aspx?PID=2021-14-3-42)

**Author(s):** M. Sabareesh, J.P. Yanadaiah, K.B. Chandra Sekhar

**DOI:** 10.5958/0974-360X.2021.00254.7 (<https://www.doi.org/10.5958/0974-360X.2021.00254.7>)

**Views:** 0 (pdf), 318 (html)

**Access:**  Open Access

**Cite:** M. Sabareesh, J.P. Yanadaiah, K.B. Chandra Sekhar. Formulation Development, Ex vivo Evaluation and In vivo Antihypertensive study of Losartan Potassium Loaded Nanoproniosomal Gel: A Novel Vesicular Approach for Transdermal Delivery. *Research J. Pharm. and Tech* 2021; 14(3):1423-1430. doi: 10.5958/0974-360X.2021.00254.7 (<https://www.doi.org/10.5958/0974-360X.2021.00254.7>)

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(AbstractView.aspx?  
PID=2021-14-  
3-42)

## Detection some Aflatoxins in some locally marketed Raw Peanuts (AbstractView.aspx?PID=2021-14-3-43)

**Author(s):** Rima Khalil, Moufid Yassin, Sundus J. Yaseen

**DOI:** 10.5958/0974-360X.2021.00255.9 (<https://www.doi.org/10.5958/0974-360X.2021.00255.9>)

**Views:** 0 (pdf), 301 (html)

**Access:**  Open Access

**Cite:** Rima Khalil, Moufid Yassin, Sundus J. Yaseen. Detection some Aflatoxins in some locally marketed Raw Peanuts. *Research J. Pharm. and Tech* 2021; 14(3):1431-1437. doi: 10.5958/0974-360X.2021.00255.9 (<https://www.doi.org/10.5958/0974-360X.2021.00255.9>)

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(AbstractView.aspx?  
PID=2021-14-  
3-43)

## Federated Health Monitoring System (AbstractView.aspx?PID=2021-14-3-44)

Author(s): S. Janarthanan, M. Thangatamilan, S. J. Suji Prasad

DOI: 10.5958/0974-360X.2021.00256.0 (<https://www.doi.org/10.5958/0974-360X.2021.00256.0>)

Views: 0 (pdf), 218 (html)

Access:  Open Access

Cite: S. Janarthanan, M. Thangatamilan, S. J. Suji Prasad. Federated Health Monitoring System. *Research J. Pharm. and Tech* 2021; 14(3):1438-1440. doi: 10.5958/0974-360X.2021.00256.0 (<https://www.doi.org/10.5958/0974-360X.2021.00256.0>)

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(AbstractView.aspx?

PID=2021-14-3-44)

## Evaluation of Appropriateness of Intravenous Pantoprazole in Inpatients of Tertiary Care Hospital (AbstractView.aspx?PID=2021-14-3-45)

Author(s): Neethu Sara George, Sujatha Palatheeya, Ramakrishna Prudhivi, Anjali Maria Mathew

DOI: 10.5958/0974-360X.2021.00257.2 (<https://www.doi.org/10.5958/0974-360X.2021.00257.2>)

Views: 0 (pdf), 379 (html)

Access:  Open Access

Cite: Neethu Sara George, Sujatha Palatheeya, Ramakrishna Prudhivi, Anjali Maria Mathew. Evaluation of Appropriateness of Intravenous Pantoprazole in Inpatients of Tertiary Care Hospital. *Research J. Pharm. and Tech* 2021; 14(3):1441-1446. doi: 10.5958/0974-360X.2021.00257.2 (<https://www.doi.org/10.5958/0974-360X.2021.00257.2>)

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(AbstractView.aspx?

PID=2021-14-3-45)

## Evaluation of Anti-obesity of Pithecellobium dulce against high fat diet Induced Obesity in Experimental Animals (AbstractView.aspx?PID=2021-14-3-46)

Author(s): Jagadeeshwar K, Umasankar Kulandaivelu, Rajasekhar Reddy Alavala, GSN Koteswara Rao, DSNBK Prasanth, Nagaraja Sreeharsha

DOI: 10.5958/0974-360X.2021.00258.4 (<https://www.doi.org/10.5958/0974-360X.2021.00258.4>)

Views: 0 (pdf), 392 (html)

Access:  Open Access

Cite: Jagadeeshwar K, Umasankar Kulandaivelu, Rajasekhar Reddy Alavala, GSN Koteswara Rao, DSNBK Prasanth, Nagaraja Sreeharsha. Evaluation of Anti-obesity of Pithecellobium dulce against high fat diet Induced Obesity in Experimental Animals. *Research J. Pharm. and Tech* 2021; 14(3):1447-1452. doi: 10.5958/0974-360X.2021.00258.4 (<https://www.doi.org/10.5958/0974-360X.2021.00258.4>)

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(AbstractView.aspx?

PID=2021-14-3-46)

## Synthesis and Evaluation of Antimicrobial, Antitubercular and Anticancer activities of Dihydrobenzimidazole thiopyranooxazinone derivatives (AbstractView.aspx?PID=2021-14-3-47)

Author(s): Deepak Kardile, Mrunal Shirsat

DOI: 10.5958/0974-360X.2021.00259.6 (<https://www.doi.org/10.5958/0974-360X.2021.00259.6>)

Views: 0 (pdf), 222 (html)

Access:  Open Access

Cite: Deepak Kardile, Mrunal Shirsat. Synthesis and Evaluation of Antimicrobial, Antitubercular and Anticancer activities of Dihydrobenzimidazole thiopyranooxazinone derivatives. *Research J. Pharm. and Tech* 2021; 14(3):1453-1458. doi: 10.5958/0974-360X.2021.00259.6 (<https://www.doi.org/10.5958/0974-360X.2021.00259.6>)

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(AbstractView.aspx?

PID=2021-14-3-47)

## Formulation and Evaluation of Novel Herbal Ointment for the Treatment of Fungal Infection (AbstractView.aspx?PID=2021-14-3-48)

**Author(s):** Muthukumar. S, Noori Irfana Parvin M. K, Shobana. S, Vimala. N, Vinesha. R, Sundaraganapathy. R

**DOI:** 10.5958/0974-360X.2021.00325.5 (<https://www.doi.org/10.5958/0974-360X.2021.00325.5>)

**Views:** 0 (pdf), 329 (html)

**Access:**  Open Access

**Cite:** Muthukumar. S, Noori Irfana Parvin M. K, Shobana. S, Vimala. N, Vinesha. R, Sundaraganapathy. R. Formulation and Evaluation of Novel Herbal Ointment for the Treatment of Fungal Infection. *Research J. Pharm. and Tech* 2021; 14(3):1459-1464. doi: 10.5958/0974-360X.2021.00325.5 (<https://www.doi.org/10.5958/0974-360X.2021.00325.5>)

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(AbstractView.aspx?

PID=2021-14-

3-48)

## Effects of whole-body Vibration therapy among Type II Diabetes Mellitus - A Pilot single blind randomized clinical trial (AbstractView.aspx?PID=2021-14-3-49)

**Author(s):** Ramachandran. S, Jibi Paul, M.S. Sundaram, Sureka Varalakshmi, Selvaraj Sudhakar

**DOI:** 10.5958/0974-360X.2021.00260.2 (<https://www.doi.org/10.5958/0974-360X.2021.00260.2>)

**Views:** 0 (pdf), 274 (html)

**Access:**  Open Access

**Cite:** Ramachandran. S, Jibi Paul, M.S. Sundaram, Sureka Varalakshmi, Selvaraj Sudhakar. Effects of whole-body Vibration therapy among Type II Diabetes Mellitus - A Pilot single blind randomized clinical trial. *Research J. Pharm. and Tech* 2021; 14(3):1465-1468. doi: 10.5958/0974-360X.2021.00260.2 (<https://www.doi.org/10.5958/0974-360X.2021.00260.2>)

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(AbstractView.aspx?

PID=2021-14-

3-49)

## A Novel Stability-indicating RP-UPLC Method for the Determination of Cenobamate in Bulk and Pharmaceutical Dosage Forms (AbstractView.aspx?PID=2021-14-3-5)


**Author(s):** G. Raveendra Babu, M. Sowjanya, M. Rama Ayyappa, A. Ravi Kumar, C. Anusha, A. Priyanka, T. Eswari Bhavani, G. Krishna Sindu, K. Raja Shekar, D. Ramesh

**DOI:** 10.5958/0974-360X.2021.00217.1 (<https://www.doi.org/10.5958/0974-360X.2021.00217.1>)

**Views:** 0 (pdf), 206 (html)

**Access:**  Open Access

**Cite:** G. Raveendra Babu, M. Sowjanya, M. Rama Ayyappa, A. Ravi Kumar, C. Anusha, A. Priyanka, T. Eswari Bhavani, G. Krishna Sindu, K. Raja Shekar, D. Ramesh. A Novel Stability-indicating RP-UPLC Method for the Determination of Cenobamate in Bulk and Pharmaceutical Dosage Forms. *Research J. Pharm. and Tech* 2021; 14(3):1221-1225. doi: 10.5958/0974-360X.2021.00217.1 (<https://www.doi.org/10.5958/0974-360X.2021.00217.1>)

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(AbstractView.aspx?

PID=2021-14-

3-5)

## Formulation and Evaluation of In vitro Potential of Punarnava ghan Tablet against Urolithiasis (Mutrakrichra) (AbstractView.aspx?PID=2021-14-3-50)


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

**DOI:** 10.5958/0974-360X.2021.00261.4 (<https://www.doi.org/10.5958/0974-360X.2021.00261.4>)

**Views:** 0 (pdf), 285 (html)

**Access:**  Open Access

**Cite:** Dileep Singh Baghel, Amit Mittal, Saurabh Singh, Rajesh Kumar, Anand Kumar Chaudhary, Amit Bhatia. Formulation and Evaluation of In vitro Potential of Punarnava ghan Tablet against Urolithiasis (Mutrakrichra). *Research J. Pharm. and Tech* 2021; 14(3):1469-1476. doi: 10.5958/0974-360X.2021.00261.4 (<https://www.doi.org/10.5958/0974-360X.2021.00261.4>)

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(AbstractView.aspx?

PID=2021-14-

3-50)

## The Effect of Bifidobacterium Probiotic on Heat Shock Protein-70 Expression and Osteoclast Number during Orthodontic Tooth Movement in Rats (*Rattus novergicus*) (AbstractView.aspx?PID=2021-14-3-51)

Author(s): Ari Triwardhani, Intan Oktaviona, Ida Bagus Narmada, Alexander Patera Nugraha

DOI: 10.5958/0974-360X.2021.00262.6 (<https://www.doi.org/10.5958/0974-360X.2021.00262.6>)

Views: 0 (pdf), 250 (html)

Access:  Open Access

Cite: Ari Triwardhani, Intan Oktaviona, Ida Bagus Narmada, Alexander Patera Nugraha. The Effect of Bifidobacterium Probiotic on Heat Shock Protein-70 Expression and Osteoclast Number during Orthodontic Tooth Movement in Rats (*Rattus novergicus*). *Research J. Pharm. and Tech* 2021; 14(3):1477-1481. doi: 10.5958/0974-360X.2021.00262.6 (<https://www.doi.org/10.5958/0974-360X.2021.00262.6>)

Read More 

(AbstractView.aspx?

PID=2021-14-

3-51)

## Development and Shelf Life Assessment of Millet Cookies by means of Nutritional and Sensory Evaluation Characteristics (AbstractView.aspx?PID=2021-14-3-52)

Author(s): D. Gunaseelan, A. Arun

DOI: 10.5958/0974-360X.2021.00263.8 (<https://www.doi.org/10.5958/0974-360X.2021.00263.8>)

Views: 0 (pdf), 315 (html)

Access:  Open Access

Cite: D. Gunaseelan, A. Arun. Development and Shelf Life Assessment of Millet Cookies by means of Nutritional and Sensory Evaluation Characteristics. *Research J. Pharm. and Tech* 2021; 14(3):1482-1486. doi: 10.5958/0974-360X.2021.00263.8 (<https://www.doi.org/10.5958/0974-360X.2021.00263.8>)

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(AbstractView.aspx?

PID=2021-14-

3-52)

## Preliminary Investigation for Preparing Amorphous Paracetamol (AbstractView.aspx?PID=2021-14-3-53)


Author(s): Sumalatda Devi Balamurugan, Aravindhanathan Venkatesan, Arun Radhakrishnan, Gowthamarajan Kuppasamy, Sachin Kumar Singh

DOI: 10.5958/0974-360X.2021.00264.X (<https://www.doi.org/10.5958/0974-360X.2021.00264.X>)

Views: 0 (pdf), 284 (html)

Access:  Open Access

Cite: Sumalatda Devi Balamurugan, Aravindhanathan Venkatesan, Arun Radhakrishnan, Gowthamarajan Kuppasamy, Sachin Kumar Singh. Preliminary Investigation for Preparing Amorphous Paracetamol. *Research J. Pharm. and Tech* 2021; 14(3):1487-1492. doi: 10.5958/0974-360X.2021.00264.X (<https://www.doi.org/10.5958/0974-360X.2021.00264.X>)

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(AbstractView.aspx?

PID=2021-14-

3-53)

## Formulation and Evaluation of Levofloxacin Stealth Liposome using different Polymers (AbstractView.aspx?PID=2021-14-3-54)

Author(s): Anju Elza Joseph, Shajan Abraham, Steffy P Raju, Haritha H Pillai, Feba Jose, Elesy Abraham

DOI: 10.5958/0974-360X.2021.00265.1 (<https://www.doi.org/10.5958/0974-360X.2021.00265.1>)

Views: 0 (pdf), 285 (html)

Access:  Open Access

Cite: Anju Elza Joseph, Shajan Abraham, Steffy P Raju, Haritha H Pillai, Feba Jose, Elesy Abraham. Formulation and Evaluation of Levofloxacin Stealth Liposome using different Polymers. *Research J. Pharm. and Tech* 2021; 14(3):1493-1498. doi: 10.5958/0974-360X.2021.00265.1 (<https://www.doi.org/10.5958/0974-360X.2021.00265.1>)

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(AbstractView.aspx?

PID=2021-14-

3-54)

## Pharmacovigilance: Adverse Drug Reactions (ADRs) in Pediatric patients in Ethiopia. Retrospective Study (AbstractView.aspx?PID=2021-14-3-55)

**Author(s):** Hailye Birhane, Mojahidul Islam, Damen H/mariam, Vijender Singh

**DOI:** 10.5958/0974-360X.2021.00266.3 (<https://www.doi.org/10.5958/0974-360X.2021.00266.3>)

**Views:** 0 (pdf), 416 (html)

**Access:**  Open Access

**Cite:** Hailye Birhane, Mojahidul Islam, Damen H/mariam, Vijender Singh. Pharmacovigilance: Adverse Drug Reactions (ADRs) in Pediatric patients in Ethiopia. Retrospective Study. *Research J. Pharm. and Tech* 2021; 14(3):1499-1506. doi: 10.5958/0974-360X.2021.00266.3 (<https://www.doi.org/10.5958/0974-360X.2021.00266.3>)

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(AbstractView.aspx?  
PID=2021-14-  
3-55)

## Estimation of Nickel Levels in Blood Serum among Hemodialysis patients in Syria (AbstractView.aspx?PID=2021-14-3-56)

**Author(s):** Feras Brrow, Sophie Bargiul

**DOI:** 10.5958/0974-360X.2021.00267.5 (<https://www.doi.org/10.5958/0974-360X.2021.00267.5>)

**Views:** 0 (pdf), 274 (html)

**Access:**  Open Access

**Cite:** Feras Brrow, Sophie Bargiul. Estimation of Nickel Levels in Blood Serum among Hemodialysis patients in Syria. *Research J. Pharm. and Tech* 2021; 14(3):1507-1510. doi: 10.5958/0974-360X.2021.00267.5 (<https://www.doi.org/10.5958/0974-360X.2021.00267.5>)

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(AbstractView.aspx?  
PID=2021-14-  
3-56)

## Viscometric Study of Metformin Complexes with some Transition Metal Ions at different Temperatures (AbstractView.aspx?PID=2021-14-3-57)

**Author(s):** Kalyan R. Langore

**DOI:** 10.5958/0974-360X.2021.00268.7 (<https://www.doi.org/10.5958/0974-360X.2021.00268.7>)

**Views:** 0 (pdf), 300 (html)

**Access:**  Open Access

**Cite:** Kalyan R. Langore. Viscometric Study of Metformin Complexes with some Transition Metal Ions at different Temperatures. *Research J. Pharm. and Tech* 2021; 14(3):1511-1514. doi: 10.5958/0974-360X.2021.00268.7 (<https://www.doi.org/10.5958/0974-360X.2021.00268.7>)

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(AbstractView.aspx?  
PID=2021-14-  
3-57)

## New 2-Methyl Benzimidazole Derivatives bearing 4-Thiazolidinone Heterocyclic Rings: Synthesis, Preliminary Pharmacological Assessment and Docking Studies (AbstractView.aspx?PID=2021-14-3-58)


**Author(s):** Abdul Muhaimen Amjed Adnan, Monther Faisal Mahdi, Ayad Kareem Khan

**DOI:** 10.5958/0974-360X.2021.00269.9 (<https://www.doi.org/10.5958/0974-360X.2021.00269.9>)

**Views:** 0 (pdf), 402 (html)

**Access:**  Open Access

**Cite:** Abdul Muhaimen Amjed Adnan, Monther Faisal Mahdi, Ayad Kareem Khan. New 2-Methyl Benzimidazole Derivatives bearing 4-Thiazolidinone Heterocyclic Rings: Synthesis, Preliminary Pharmacological Assessment and Docking Studies. *Research J. Pharm. and Tech* 2021; 14(3):1515-1520. doi: 10.5958/0974-360X.2021.00269.9 (<https://www.doi.org/10.5958/0974-360X.2021.00269.9>)

Read More 

(AbstractView.aspx?  
PID=2021-14-  
3-58)

## GC-MS analysis and in vitro Antioxidant, Cytotoxicity study of DCM-ME extract of *Dendrophthoe falcata* (L.F) Ettingsh leave against human lung carcinoma (A-549) and human Chronic Myelogenous leukemia (k-562) cell Line (AbstractView.aspx?PID=2021-14-3-59)

Author(s): V. C. Bhagat, M. S. Kondawar

DOI: 10.5958/0974-360X.2021.00270.5 (<https://www.doi.org/10.5958/0974-360X.2021.00270.5>)

Views: 0 (pdf), 355 (html)

Access:  Open Access

Cite: V. C. Bhagat, M. S. Kondawar. GC-MS analysis and in vitro Antioxidant, Cytotoxicity study of DCM-ME extract of *Dendrophthoe falcata* (L.F) Ettingsh leave against human lung carcinoma (A-549) and human Chronic Myelogenous leukemia (k-562) cell Line. *Research J. Pharm. and Tech* 2021; 14(3):1521-1529. doi: 10.5958/0974-360X.2021.00270.5 (<https://www.doi.org/10.5958/0974-360X.2021.00270.5>)

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(AbstractView.aspx?

PID=2021-14-

3-59)

## Investigation, Correlation and DFT study for solubility of Malonic acid in water + methanol and water + ethanol binary solvents at T = 293.15 to 313.15 K (AbstractView.aspx?PID=2021-14-3-6)

Author(s): Ramesh R. Pawar, Sandip B. Nahire

DOI: 10.5958/0974-360X.2021.00218.3 (<https://www.doi.org/10.5958/0974-360X.2021.00218.3>)

Views: 0 (pdf), 200 (html)

Access:  Open Access

Cite: Ramesh R. Pawar, Sandip B. Nahire. Investigation, Correlation and DFT study for solubility of Malonic acid in water + methanol and water + ethanol binary solvents at T = 293.15 to 313.15 K. *Research J. Pharm. and Tech.* 2021; 14(3):1226-1232. doi: 10.5958/0974-360X.2021.00218.3 (<https://www.doi.org/10.5958/0974-360X.2021.00218.3>)

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(AbstractView.aspx?

PID=2021-14-

3-6)

## Green Synthesis of Cobalt Nanoparticles using Ethanolic Extract of *Cadiospermum halicacebium* Characterisation and its Anticancer Applications (AbstractView.aspx?PID=2021-14-3-60)

Author(s): D. Malathy, Meyyappan Revathi

DOI: 10.5958/0974-360X.2021.00271.7 (<https://www.doi.org/10.5958/0974-360X.2021.00271.7>)

Views: 0 (pdf), 248 (html)

Access:  Open Access

Cite: D. Malathy, Meyyappan Revathi. Green Synthesis of Cobalt Nanoparticles using Ethanolic Extract of *Cadiospermum halicacebium* Characterisation and its Anticancer Applications. *Research J. Pharm. and Tech* 2021; 14(3):1530-1534. doi: 10.5958/0974-360X.2021.00271.7 (<https://www.doi.org/10.5958/0974-360X.2021.00271.7>)

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(AbstractView.aspx?

PID=2021-14-

3-60)

## Design, Development and Evaluation of Aceclofenac and Curcumin Agglomerates by Crystallo Co-Agglomeration Technique (AbstractView.aspx?PID=2021-14-3-61)

Author(s): V. Malviya, S. Manekar

DOI: 10.5958/0974-360X.2021.00272.9 (<https://www.doi.org/10.5958/0974-360X.2021.00272.9>)

Views: 0 (pdf), 300 (html)

Access:  Open Access

Cite: V. Malviya, S. Manekar. Design, Development and Evaluation of Aceclofenac and Curcumin Agglomerates by Crystallo Co-Agglomeration Technique. *Research J. Pharm. and Tech* 2021; 14(3):1535-1541. doi: 10.5958/0974-360X.2021.00272.9 (<https://www.doi.org/10.5958/0974-360X.2021.00272.9>)

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(AbstractView.aspx?

PID=2021-14-

3-61)



## Bioactivity of *Annona reticulata*-An in vitro and in silico Approach (AbstractView.aspx?PID=2021-14-3-62)


**Author(s):** Ranjitha Dhevi V. Sundar, Saranya Shankar, Lokesh Ravi, Sathiavelu Arunachalam

**DOI:** 10.5958/0974-360X.2021.00281.X (<https://www.doi.org/10.5958/0974-360X.2021.00281.X>)

**Views:** 0 (pdf), 183 (html)

**Access:**  Open Access

**Cite:** Ranjitha Dhevi V. Sundar, Saranya Shankar, Lokesh Ravi, Sathiavelu Arunachalam. Bioactivity of *Annona reticulata*-An in vitro and in silico Approach. *Research J. Pharm. and Tech* 2021; 14(3):1542-1548. doi: 10.5958/0974-360X.2021.00281.X (<https://www.doi.org/10.5958/0974-360X.2021.00281.X>)

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(AbstractView.aspx?

PID=2021-14-3-62)

## Development and Validation of RP-HPLC Method for the Determination of Pazopanib Hydrochloride (A Tyrosine Kinase Inhibitor) in Pharmaceutical Dosage Form (AbstractView.aspx?PID=2021-14-3-63)

**Author(s):** P. Ravi Sankar, K. Saisneha Latha, A. Bhavani Sailu, SK. Taheera, B. Madhuri

**DOI:** 10.5958/0974-360X.2021.00273.0 (<https://www.doi.org/10.5958/0974-360X.2021.00273.0>)

**Views:** 0 (pdf), 455 (html)

**Access:**  Open Access

**Cite:** P. Ravi Sankar, K. Saisneha Latha, A. Bhavani Sailu, SK. Taheera, B. Madhuri. Development and Validation of RP-HPLC Method for the Determination of Pazopanib Hydrochloride (A Tyrosine Kinase Inhibitor) in Pharmaceutical Dosage Form. *Research J. Pharm. and Tech* 2021; 14(3):1549-1554. doi: 10.5958/0974-360X.2021.00273.0 (<https://www.doi.org/10.5958/0974-360X.2021.00273.0>)

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(AbstractView.aspx?

PID=2021-14-3-63)

## Heavy Metals Bioremediation by Shells Dust and Chitosan Derived from *Belamya javanica* Snail, an Eco-friendly Biosorbent (AbstractView.aspx?PID=2021-14-3-64)

**Author(s):** Prisma Trida Hardani, Noor Erma Nasution Sugijanto, Sugijanto Kartosentono

**DOI:** 10.5958/0974-360X.2021.00274.2 (<https://www.doi.org/10.5958/0974-360X.2021.00274.2>)

**Views:** 0 (pdf), 320 (html)

**Access:**  Open Access

**Cite:** Prisma Trida Hardani, Noor Erma Nasution Sugijanto, Sugijanto Kartosentono. Heavy Metals Bioremediation by Shells Dust and Chitosan Derived from *Belamya javanica* Snail, an Eco-friendly Biosorbent. *Research J. Pharm. and Tech* 2021; 14(3):1555-1560. doi: 10.5958/0974-360X.2021.00274.2 (<https://www.doi.org/10.5958/0974-360X.2021.00274.2>)

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(AbstractView.aspx?

PID=2021-14-3-64)

## Carbopol 940 Vs Carbol 904: A better Polymer for Hydrogel Formulation (AbstractView.aspx?PID=2021-14-3-65)

**Author(s):** Aditya Sharma, Jashanpreet Kaur, Anju Goyal

**DOI:** 10.5958/0974-360X.2021.00275.4 (<https://www.doi.org/10.5958/0974-360X.2021.00275.4>)

**Views:** 0 (pdf), 356 (html)

**Access:**  Open Access

**Cite:** Aditya Sharma, Jashanpreet Kaur, Anju Goyal. Carbopol 940 Vs Carbol 904: A better Polymer for Hydrogel Formulation. *Research J. Pharm. and Tech* 2021; 14(3):1561-1564. doi: 10.5958/0974-360X.2021.00275.4 (<https://www.doi.org/10.5958/0974-360X.2021.00275.4>)

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(AbstractView.aspx?

PID=2021-14-3-65)

## Study on Efficacy of Topiramate: Impact on weight Loss in Obese patients (AbstractView.aspx?PID=2021-14-3-66)


Author(s): Nithyakala P, Sathyaprabha G, Venila J

DOI: 10.5958/0974-360X.2021.00276.6 (<https://www.doi.org/10.5958/0974-360X.2021.00276.6>)

Views: 0 (pdf), 295 (html)

Access:  Open Access

Cite: Nithyakala P, Sathyaprabha G, Venila J. Study on Efficacy of Topiramate: Impact on weight Loss in Obese patients. *Research J. Pharm. and Tech* 2021; 14(3):1565-1570. doi: 10.5958/0974-360X.2021.00276.6 (<https://www.doi.org/10.5958/0974-360X.2021.00276.6>)

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(AbstractView.aspx?

PID=2021-14-3-66)

## Molecular Docking Studies, Synthesis, Characterisation, and Evaluation of Azetidine-2-One Derivative (AbstractView.aspx?PID=2021-14-3-67)

Author(s): S. Ramachandran, N. Vimeshya, K. Yogeshwaran, Binoy Varghese Cheriyan, M. Vijey Aanandhi

DOI: 10.5958/0974-360X.2021.00277.8 (<https://www.doi.org/10.5958/0974-360X.2021.00277.8>)

Views: 0 (pdf), 354 (html)

Access:  Open Access

Cite: S. Ramachandran, N. Vimeshya, K. Yogeshwaran, Binoy Varghese Cheriyan, M. Vijey Aanandhi. Molecular Docking Studies, Synthesis, Characterisation, and Evaluation of Azetidine-2-One Derivative. *Research J. Pharm. and Tech* 2021; 14(3):1571-1575. doi: 10.5958/0974-360X.2021.00277.8 (<https://www.doi.org/10.5958/0974-360X.2021.00277.8>)

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(AbstractView.aspx?

PID=2021-14-3-67)

## Hydrotropic Solubilization and Linearity Profile of Apixaban (AbstractView.aspx?PID=2021-14-3-68)

Author(s): Santosh Karajgi, Shripad Potadar

DOI: 10.5958/0974-360X.2021.00278.X (<https://www.doi.org/10.5958/0974-360X.2021.00278.X>)

Views: 0 (pdf), 254 (html)

Access:  Open Access

Cite: Santosh Karajgi, Shripad Potadar. Hydrotropic Solubilization and Linearity Profile of Apixaban. *Research J. Pharm. and Tech* 2021; 14(3):1576-1578. doi: 10.5958/0974-360X.2021.00278.X (<https://www.doi.org/10.5958/0974-360X.2021.00278.X>)

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(AbstractView.aspx?

PID=2021-14-3-68)

## Application of Biodegradable Aloe vera gel and Linseed mucilage for extending the shelf life of Plums (AbstractView.aspx?PID=2021-14-3-69)

Author(s): Raneem Ali Mohammed, Anton Yousef, Ali Ali

DOI: 10.5958/0974-360X.2021.00279.1 (<https://www.doi.org/10.5958/0974-360X.2021.00279.1>)

Views: 0 (pdf), 231 (html)

Access:  Open Access

Cite: Raneem Ali Mohammed, Anton Yousef, Ali Ali. Application of Biodegradable Aloe vera gel and Linseed mucilage for extending the shelf life of Plums. *Research J. Pharm. and Tech* 2021; 14(3):1579-1585. doi: 10.5958/0974-360X.2021.00279.1 (<https://www.doi.org/10.5958/0974-360X.2021.00279.1>)

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(AbstractView.aspx?

PID=2021-14-3-69)

## Design and Preparation Lipid Polymer Hybrid Nanocarrier as Pulmonary Dispersion System Using a Novel Microwave Method (AbstractView.aspx?PID=2021-14-3-7)

**Author(s):** Hayder Kadhim Drais, Ahmed Abbas Hussein

**DOI:** 10.5958/0974-360X.2021.00219.5 (<https://www.doi.org/10.5958/0974-360X.2021.00219.5>)

**Views:** 0 (pdf), 202 (html)

**Access:**  Open Access

**Cite:** Hayder Kadhim Drais, Ahmed Abbas Hussein. Design and Preparation Lipid Polymer Hybrid Nanocarrier as Pulmonary Dispersion System Using a Novel Microwave Method. *Research J. Pharm. and Tech* 2021; 14(3):1233-1237. doi: 10.5958/0974-360X.2021.00219.5 (<https://www.doi.org/10.5958/0974-360X.2021.00219.5>)

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(AbstractView.aspx?  
PID=2021-14-  
3-7)

## Comparative research of Fatty acid Composition and Volatile Components of Fatty oils from seeds of Nigella sativa and Argania spinosa (AbstractView.aspx?PID=2021-14-3-70)

**Author(s):** VA Kurkin, AR Mubinov, HV Avdeeva, TK Ryazanova

**DOI:** 10.5958/0974-360X.2021.00280.8 (<https://www.doi.org/10.5958/0974-360X.2021.00280.8>)

**Views:** 0 (pdf), 208 (html)

**Access:**  Open Access

**Cite:** VA Kurkin, AR Mubinov, HV Avdeeva, TK Ryazanova. Comparative research of Fatty acid Composition and Volatile Components of Fatty oils from seeds of Nigella sativa and Argania spinosa. *Research J. Pharm. and Tech* 2021; 14(3):1586-1590. doi: 10.5958/0974-360X.2021.00280.8 (<https://www.doi.org/10.5958/0974-360X.2021.00280.8>)

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(AbstractView.aspx?  
PID=2021-14-  
3-70)

## Analytical Method Development and Validation of Dasatinib in Bulk and Pharmaceutical Formulation using Quality by Design (AbstractView.aspx?PID=2021-14-3-71)

**Author(s):** Jayendrasingh P. Bayas, M. Sumithra

**DOI:** 10.5958/0974-360X.2021.00282.1 (<https://www.doi.org/10.5958/0974-360X.2021.00282.1>)

**Views:** 0 (pdf), 364 (html)

**Access:**  Open Access

**Cite:** Jayendrasingh P. Bayas, M. Sumithra. Analytical Method Development and Validation of Dasatinib in Bulk and Pharmaceutical Formulation using Quality by Design. *Research J. Pharm. and Tech* 2021; 14(3):1591-1596. doi: 10.5958/0974-360X.2021.00282.1 (<https://www.doi.org/10.5958/0974-360X.2021.00282.1>)

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(AbstractView.aspx?  
PID=2021-14-  
3-71)

## The use of Urinary $\alpha$ -amylase level in a diagnosis of Chronic renal failure (AbstractView.aspx?PID=2021-14-3-72)

**Author(s):** Ameer AA Aldafaay, Haidar A. Abdul Amir, Hiba A. Abdulhussain, Aurok S Badry, Ameer K Abdulsada

**DOI:** 10.5958/0974-360X.2021.00283.3 (<https://www.doi.org/10.5958/0974-360X.2021.00283.3>)

**Views:** 0 (pdf), 216 (html)

**Access:**  Open Access

**Cite:** Ameer AA Aldafaay, Haidar A. Abdul Amir, Hiba A. Abdulhussain, Aurok S Badry, Ameer K Abdulsada. The use of Urinary  $\alpha$ -amylase level in a diagnosis of Chronic renal failure. *Research J. Pharm. and Tech* 2021; 14(3):1597-1600. doi: 10.5958/0974-360X.2021.00283.3 (<https://www.doi.org/10.5958/0974-360X.2021.00283.3>)

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(AbstractView.aspx?  
PID=2021-14-  
3-72)

## Formulation and Evaluation of Theophylline Lozenges (AbstractView.aspx?PID=2021-14-3-73)

**Author(s):** Pravalika L, Shravan Kumar Y.

**DOI:** 10.5958/0974-360X.2021.00284.5 (<https://www.doi.org/10.5958/0974-360X.2021.00284.5>)

**Views:** 0 (pdf), 358 (html)

**Access:**  Open Access

**Cite:** Pravalika L, Shravan Kumar Y. Formulation and Evaluation of Theophylline Lozenges. *Research J. Pharm. and Tech* 2021; 14(3):1601-1606. doi: 10.5958/0974-360X.2021.00284.5 (<https://www.doi.org/10.5958/0974-360X.2021.00284.5>)

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(AbstractView.aspx?

PID=2021-14-3-73)

## Extraction and Isolation of Bioactive Compounds from Lantana camara Leaves by Column Chromatographic Techniques (AbstractView.aspx?PID=2021-14-3-74)

**Author(s):** Poongothai Annadurai

**DOI:** 10.5958/0974-360X.2021.00285.7 (<https://www.doi.org/10.5958/0974-360X.2021.00285.7>)

**Views:** 0 (pdf), 271 (html)

**Access:**  Open Access

**Cite:** Poongothai Annadurai. Extraction and Isolation of Bioactive Compounds from Lantana camara Leaves by Column Chromatographic Techniques. *Research J. Pharm. and Tech* 2021; 14(3):1607-1611. doi: 10.5958/0974-360X.2021.00285.7 (<https://www.doi.org/10.5958/0974-360X.2021.00285.7>)

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(AbstractView.aspx?

PID=2021-14-3-74)

## A Study on Pain Assessment and Management in Post-Operative patients (AbstractView.aspx?PID=2021-14-3-75)

**Author(s):** Sudireddy Rajini, B.S. Venkateswarlu

**DOI:** 10.5958/0974-360X.2021.00286.9 (<https://www.doi.org/10.5958/0974-360X.2021.00286.9>)

**Views:** 0 (pdf), 242 (html)

**Access:**  Open Access

**Cite:** Sudireddy Rajini, B.S. Venkateswarlu. A Study on Pain Assessment and Management in Post-Operative patients. *Research J. Pharm. and Tech* 2021; 14(3):1612-1614. doi: 10.5958/0974-360X.2021.00286.9 (<https://www.doi.org/10.5958/0974-360X.2021.00286.9>)

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(AbstractView.aspx?

PID=2021-14-3-75)

## Development and Bioavailability Assessment of Simvastatin Nanoparticle Formulation (AbstractView.aspx?PID=2021-14-3-76)

**Author(s):** Suvarna G. Bhokare, Rajendra P. Marathe

**DOI:** 10.5958/0974-360X.2021.00287.0 (<https://www.doi.org/10.5958/0974-360X.2021.00287.0>)

**Views:** 0 (pdf), 310 (html)

**Access:**  Open Access

**Cite:** Suvarna G. Bhokare, Rajendra P. Marathe. Development and Bioavailability Assessment of Simvastatin Nanoparticle Formulation. *Research J. Pharm. and Tech* 2021; 14(3):1615-1621. doi: 10.5958/0974-360X.2021.00287.0 (<https://www.doi.org/10.5958/0974-360X.2021.00287.0>)

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(AbstractView.aspx?

PID=2021-14-3-76)

## GC-MS Analysis of the Leaf Extract of Swertia chirata and its In-silico Binding Affinity against Toxicity Receptors (AbstractView.aspx?PID=2021-14-3-77)

**Author(s):** Jerine Peter S, Gayathri Ashok, Megha Treesa Saju, Mary Thomas, Evan Prince Sabina

**DOI:** 10.5958/0974-360X.2021.00288.2 (<https://www.doi.org/10.5958/0974-360X.2021.00288.2>)

**Views:** 0 (pdf), 265 (html)

**Access:**  Open Access

**Cite:** Jerine Peter S, Gayathri Ashok, Megha Treesa Saju, Mary Thomas, Evan Prince Sabina. GC-MS Analysis of the Leaf Extract of Swertia chirata and its In-silico Binding Affinity against Toxicity Receptors. *Research J. Pharm. and Tech* 2021; 14(3):1622-1628. doi: 10.5958/0974-360X.2021.00288.2 (<https://www.doi.org/10.5958/0974-360X.2021.00288.2>)

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(AbstractView.aspx?

PID=2021-14-

3-77)

## Analysis of Bioactive Compounds from Methanol Extract of Diadema setosum Sea Urchin Gonads using Gas Chromatography – Mass Spectrometry (AbstractView.aspx?PID=2021-14-3-78)

**Author(s):** Silvester Maximus Tulandi, Lisawati Tanzil, Dian Maria Ulfa

**DOI:** 10.5958/0974-360X.2021.00289.4 (<https://www.doi.org/10.5958/0974-360X.2021.00289.4>)

**Views:** 0 (pdf), 1630 (html)

**Access:**  Open Access

**Cite:** Silvester Maximus Tulandi, Lisawati Tanzil, Dian Maria Ulfa. Analysis of Bioactive Compounds from Methanol Extract of Diadema setosum Sea Urchin Gonads using Gas Chromatography – Mass Spectrometry. *Research J. Pharm. and Tech* 2021; 14(3):1629-1634. doi: 10.5958/0974-360X.2021.00289.4 (<https://www.doi.org/10.5958/0974-360X.2021.00289.4>)

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(AbstractView.aspx?

PID=2021-14-

3-78)

## Enhanced Antidepressant-Like Activity of Diosgenin and Silymarin in Combination on Phenobarbitone-Induced Sleeping Time in Rats (AbstractView.aspx?PID=2021-14-3-79)

**Author(s):** Balamurugan K, Sathya B, Anbazhagan S

**DOI:** 10.5958/0974-360X.2021.00290.0 (<https://www.doi.org/10.5958/0974-360X.2021.00290.0>)

**Views:** 0 (pdf), 241 (html)

**Access:**  Open Access

**Cite:** Balamurugan K, Sathya B, Anbazhagan S. Enhanced Antidepressant-Like Activity of Diosgenin and Silymarin in Combination on Phenobarbitone-Induced Sleeping Time in Rats. *Research J. Pharm. and Tech* 2021; 14(3):1635-1638. doi: 10.5958/0974-360X.2021.00290.0 (<https://www.doi.org/10.5958/0974-360X.2021.00290.0>)

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(AbstractView.aspx?

PID=2021-14-

3-79)

## Formulation and Evaluation of Spherical Crystal Agglomerates of Lurasidone Hydrochloride (AbstractView.aspx?PID=2021-14-3-8)

**Author(s):** Sanjeshkumar G. Rathi, Sejal A. Zala, Maulikkumar D. Vaja, Sohansinh S. Vaghela

**DOI:** 10.5958/0974-360X.2021.00220.1 (<https://www.doi.org/10.5958/0974-360X.2021.00220.1>)

**Views:** 0 (pdf), 262 (html)

**Access:**  Open Access

**Cite:** Sanjeshkumar G. Rathi, Sejal A. Zala, Maulikkumar D. Vaja, Sohansinh S. Vaghela. Formulation and Evaluation of Spherical Crystal Agglomerates of Lurasidone Hydrochloride. *Research J. Pharm. and Tech* 2021; 14(3):1238-1246. doi: 10.5958/0974-360X.2021.00220.1 (<https://www.doi.org/10.5958/0974-360X.2021.00220.1>)

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(AbstractView.aspx?

PID=2021-14-

3-8)

## Design, Optimization and Evaluation of Telmisartan Chronotherapeutics press coated tablets Employing as Novel synthetic Disintegrate and as Novel coated Chronotherapeutic Polymers (AbstractView.aspx?PID=2021-14-3-80)

Author(s): A. Bharathi, D. Chandra Sekhar Naik

DOI: 10.5958/0974-360X.2021.00291.2 (<https://www.doi.org/10.5958/0974-360X.2021.00291.2>)

Views: 0 (pdf), 247 (html)

Access:  Open Access

Cite: A. Bharathi, D. Chandra Sekhar Naik. Design, Optimization and Evaluation of Telmisartan Chronotherapeutics press coated tablets Employing as Novel synthetic Disintegrate and as Novel coated Chronotherapeutic Polymers. *Research J. Pharm. and Tech* 2021; 14(3):1639-1644. doi: 10.5958/0974-360X.2021.00291.2 (<https://www.doi.org/10.5958/0974-360X.2021.00291.2>)

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(AbstractView.aspx?

PID=2021-14-

3-80)

## Evaluation of Anti-inflammatory Activity of Ethanolic Extract of Populus deltooides (AbstractView.aspx?PID=2021-14-3-81)

Author(s): Vishnu Prasad Yadav, Rajeev Kumar, Vijay Bahadur Maurya

DOI: 10.5958/0974-360X.2021.00292.4 (<https://www.doi.org/10.5958/0974-360X.2021.00292.4>)

Views: 0 (pdf), 367 (html)

Access:  Open Access

Cite: Vishnu Prasad Yadav, Rajeev Kumar, Vijay Bahadur Maurya. Evaluation of Anti-inflammatory Activity of Ethanolic Extract of Populus deltooides. *Research J. Pharm. and Tech*. 2021; 14(3):1645-1650. doi: 10.5958/0974-360X.2021.00292.4 (<https://www.doi.org/10.5958/0974-360X.2021.00292.4>)

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(AbstractView.aspx?

PID=2021-14-

3-81)

## The Benefits of Mackerel Fish (Scomberomorus commersonii) Extract to Decrease Inflammatory Process (AbstractView.aspx?PID=2021-14-3-82)


Author(s): Sulistiana Prabowo, Fitri Handajani

DOI: 10.5958/0974-360X.2021.00293.6 (<https://www.doi.org/10.5958/0974-360X.2021.00293.6>)

Views: 0 (pdf), 302 (html)

Access:  Open Access

Cite: Sulistiana Prabowo, Fitri Handajani. The Benefits of Mackerel Fish (Scomberomorus commersonii) Extract to Decrease Inflammatory Process. *Research J. Pharm. and Tech* 2021; 14(3):1651-1657. doi: 10.5958/0974-360X.2021.00293.6 (<https://www.doi.org/10.5958/0974-360X.2021.00293.6>)

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(AbstractView.aspx?

PID=2021-14-

3-82)

## A Validated Stability Indicating UPLC Method for Simultaneous Determination and Degradation studies of Sofosbuvir and Velpatasvir in Pharmaceutical Dosage Forms (AbstractView.aspx?PID=2021-14-3-83)


Author(s): Sunkara Namratha, A. Vijayalakshmi

DOI: 10.5958/0974-360X.2021.00294.8 (<https://www.doi.org/10.5958/0974-360X.2021.00294.8>)

Views: 0 (pdf), 246 (html)

Access:  Open Access

Cite: Sunkara Namratha, A. Vijayalakshmi. A Validated Stability Indicating UPLC Method for Simultaneous Determination and Degradation studies of Sofosbuvir and Velpatasvir in Pharmaceutical Dosage Forms. *Research J. Pharm. and Tech* 2021; 14(3):1658-1662. doi: 10.5958/0974-360X.2021.00294.8 (<https://www.doi.org/10.5958/0974-360X.2021.00294.8>)

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(AbstractView.aspx?

PID=2021-14-

3-83)

## Synthesis, Characterization, Insilico and Invitro Screening of newly Synthesized Schiff Bases (AbstractView.aspx?PID=2021-14-3-84)

**Author(s):** P. Mounika, KNV. Chenchu Lakshmi, M. Sowjanya, M. Rama Ayyappa, G. Ravindra

**DOI:** 10.5958/0974-360X.2021.00295.X (<https://www.doi.org/10.5958/0974-360X.2021.00295.X>)

**Views:** 0 (pdf), 291 (html)

**Access:**  Open Access

**Cite:** P. Mounika, KNV. Chenchu Lakshmi, M. Sowjanya, M. Rama Ayyappa, G. Ravindra. Synthesis, Characterization, Insilico and Invitro Screening of newly Synthesized Schiff Bases. *Research J. Pharm. and Tech* 2021; 14(3):1663-1667. doi: 10.5958/0974-360X.2021.00295.X (<https://www.doi.org/10.5958/0974-360X.2021.00295.X>)

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(AbstractView.aspx?  
PID=2021-14-  
3-84)

## Development and Characterization of Chitosan based flutamide Nanoparticles by Ionic Gelation Method (AbstractView.aspx?PID=2021-14-3-85)

**Author(s):** S. Venkateswara Rao, D. Bhagya Sri Vani, K. Padmalatha

**DOI:** 10.5958/0974-360X.2021.00296.1 (<https://www.doi.org/10.5958/0974-360X.2021.00296.1>)

**Views:** 0 (pdf), 269 (html)

**Access:**  Open Access

**Cite:** S. Venkateswara Rao, D. Bhagya Sri Vani, K. Padmalatha. Development and Characterization of Chitosan based flutamide Nanoparticles by Ionic Gelation Method. *Research J. Pharm. and Tech* 2021; 14(3):1668-1672. doi: 10.5958/0974-360X.2021.00296.1 (<https://www.doi.org/10.5958/0974-360X.2021.00296.1>)

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(AbstractView.aspx?  
PID=2021-14-  
3-85)

## Development and validation of a new stability indicating ultra-fast liquid chromatographic (RP-UFLC) method for the quantification of Rosuvastatin (AbstractView.aspx?PID=2021-14-3-86)

**Author(s):** Paladugu Venkata Naveen, Seru Ganapaty

**DOI:** 10.5958/0974-360X.2021.00297.3 (<https://www.doi.org/10.5958/0974-360X.2021.00297.3>)

**Views:** 0 (pdf), 268 (html)

**Access:**  Open Access

**Cite:** Paladugu Venkata Naveen, Seru Ganapaty. Development and validation of a new stability indicating ultra-fast liquid chromatographic (RP-UFLC) method for the quantification of Rosuvastatin. *Research J. Pharm. and Tech* 2021; 14(3):1673-1679. doi: 10.5958/0974-360X.2021.00297.3 (<https://www.doi.org/10.5958/0974-360X.2021.00297.3>)

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(AbstractView.aspx?  
PID=2021-14-  
3-86)

## Isolation and Characterization of Chemical Constituents from the Fruits of Terminalia bellirica towards Achieving their Chemical Standardization (AbstractView.aspx?PID=2021-14-3-87)

**Author(s):** Mejo Joseph, S. Alaxander

**DOI:** 10.5958/0974-360X.2021.00298.5 (<https://www.doi.org/10.5958/0974-360X.2021.00298.5>)

**Views:** 0 (pdf), 241 (html)

**Access:**  Open Access

**Cite:** Mejo Joseph, S. Alaxander. Isolation and Characterization of Chemical Constituents from the Fruits of Terminalia bellirica towards Achieving their Chemical Standardization. *Research J. Pharm. and Tech* 2021; 14(3):1680-1684. doi: 10.5958/0974-360X.2021.00298.5 (<https://www.doi.org/10.5958/0974-360X.2021.00298.5>)

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(AbstractView.aspx?  
PID=2021-14-  
3-87)

## First Report on the Cytotoxicity of Pinus merkusii Bark Extract in WiDr, A Human Colon Carcinoma Cell Line (AbstractView.aspx?PID=2021-14-3-88)

**Author(s):** Annise Proboningrat, Arif Nur Muhammad Ansori, Amaq Fadholly, Naimah Putri, Muhammad Khalim Jati Kusala, Agung Budianto Achmad

**DOI:** 10.5958/0974-360X.2021.00299.7 (<https://www.doi.org/10.5958/0974-360X.2021.00299.7>)

**Views:** 0 (pdf), 260 (html)

**Access:**  Open Access

**Cite:** Annise Proboningrat, Arif Nur Muhammad Ansori, Amaq Fadholly, Naimah Putri, Muhammad Khalim Jati Kusala, Agung Budianto Achmad. First Report on the Cytotoxicity of Pinus merkusii Bark Extract in WiDr, A Human Colon Carcinoma Cell Line. *Research J. Pharm. and Tech* 2021; 14(3):1685-1688. doi: 10.5958/0974-360X.2021.00299.7 (<https://www.doi.org/10.5958/0974-360X.2021.00299.7>)

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(AbstractView.aspx?

PID=2021-14-

3-88)

## Pharmacognostical, Physicochemical and Phytochemical studies of different varieties of Beet root grown in Punjab (AbstractView.aspx?PID=2021-14-3-89)

**Author(s):** Neeraj Bainsal, Simranjeet Kaur, Sudhanshu Mallan

**DOI:** 10.5958/0974-360X.2021.00300.0 (<https://www.doi.org/10.5958/0974-360X.2021.00300.0>)

**Views:** 0 (pdf), 236 (html)

**Access:**  Open Access

**Cite:** Neeraj Bainsal, Simranjeet Kaur, Sudhanshu Mallan. Pharmacognostical, Physicochemical and Phytochemical studies of different varieties of Beet root grown in Punjab. *Research J. Pharm. and Tech* 2021; 14(3):1689-1692. doi: 10.5958/0974-360X.2021.00300.0 (<https://www.doi.org/10.5958/0974-360X.2021.00300.0>)

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(AbstractView.aspx?

PID=2021-14-

3-89)

## Drug Utilization Evaluation of Aminoglycosides, Gentamicin and Amikacin: A Retrospective study in pediatric patients at secondary care public hospital (AbstractView.aspx?PID=2021-14-3-9)

**Author(s):** Keerthana Chandrasekar, Shruthi Jaya Saju, Brisha Hana Zechariah, Jenny Ann John, Sadagoban GK, Arun KP

**DOI:** 10.5958/0974-360X.2021.00221.3 (<https://www.doi.org/10.5958/0974-360X.2021.00221.3>)

**Views:** 0 (pdf), 230 (html)

**Access:**  Open Access

**Cite:** Keerthana Chandrasekar, Shruthi Jaya Saju, Brisha Hana Zechariah, Jenny Ann John, Sadagoban GK, Arun KP. Drug Utilization Evaluation of Aminoglycosides, Gentamicin and Amikacin: A Retrospective study in pediatric patients at secondary care public hospital. *Research J. Pharm. and Tech* 2021; 14(3):1247-1250. doi: 10.5958/0974-360X.2021.00221.3 (<https://www.doi.org/10.5958/0974-360X.2021.00221.3>)

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(AbstractView.aspx?

PID=2021-14-

3-9)

## Removal of Toxic heavy metal ions by the formation of complex with Theophylline (Therapy drug): Thermodynamic and kinetic study (AbstractView.aspx?PID=2021-14-3-90)


**Author(s):** Huda N. Al-Ani

**DOI:** 10.5958/0974-360X.2021.00301.2 (<https://www.doi.org/10.5958/0974-360X.2021.00301.2>)

**Views:** 0 (pdf), 335 (html)

**Access:**  Open Access

**Cite:** Huda N. Al-Ani. Removal of Toxic heavy metal ions by the formation of complex with Theophylline (Therapy drug): Thermodynamic and kinetic study. *Research J. Pharm. and Tech* 2021; 14(3):1693-1698. doi: 10.5958/0974-360X.2021.00301.2 (<https://www.doi.org/10.5958/0974-360X.2021.00301.2>)

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(AbstractView.aspx?

PID=2021-14-

3-90)



### Characteristic of Nanostructured Lipid Carrier (NLC) Diclofenac Diethylammonium as Function of Ratio of Glyceryl Monostearate and Caprylic Acid (AbstractView.aspx?PID=2021-14-3-91)

Author(s): Esti Hendradi, Faddlun Nur Hidayati, **Tristiana Erawati**

DOI: [10.5958/0974-360X.2021.00302.4](https://www.doi.org/10.5958/0974-360X.2021.00302.4) (<https://www.doi.org/10.5958/0974-360X.2021.00302.4>)

Views: 0 (pdf), 217 (html)

Access:  Open Access

Cite: Esti Hendradi, Faddlun Nur Hidayati, Tristiana Erawati. Characteristic of Nanostructured Lipid Carrier (NLC) Diclofenac Diethylammonium as Function of Ratio of Glyceryl Monostearate and Caprylic Acid. *Research J. Pharm. and Tech* 2021; 14(3):1699-1704. doi: 10.5958/0974-360X.2021.00302.4 (<https://www.doi.org/10.5958/0974-360X.2021.00302.4>)

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(AbstractView.aspx?

PID=2021-14-

3-91)

### Gastroprotective and Antioxidant mechanism of Litchi chinensis Leaf extract (AbstractView.aspx?PID=2021-14-3-92)

Author(s): Vivek Srivastava, Babita Viswakarma, Neha Mathur, Santosh Kumar Verma

DOI: [10.5958/0974-360X.2021.00303.6](https://www.doi.org/10.5958/0974-360X.2021.00303.6) (<https://www.doi.org/10.5958/0974-360X.2021.00303.6>)

Views: 0 (pdf), 255 (html)

Access:  Open Access

Cite: Vivek Srivastava, Babita Viswakarma, Neha Mathur, Santosh Kumar Verma. Gastroprotective and Antioxidant mechanism of Litchi chinensis Leaf extract. *Research J. Pharm. and Tech* 2021; 14(3):1705-1710. doi: 10.5958/0974-360X.2021.00303.6 (<https://www.doi.org/10.5958/0974-360X.2021.00303.6>)

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(AbstractView.aspx?

PID=2021-14-

3-92)

### Some Complexes of Zink (II) and Manganese (II) with Schiff Base derived from Nicotinamide, Synthesis and Characterization, Antibacterial Evaluation (AbstractView.aspx?PID=2021-14-3-93)

Author(s): Rana R. Abed, Amena E. Ahmed

DOI: [10.5958/0974-360X.2021.00304.8](https://www.doi.org/10.5958/0974-360X.2021.00304.8) (<https://www.doi.org/10.5958/0974-360X.2021.00304.8>)

Views: 0 (pdf), 252 (html)

Access:  Open Access

Cite: Rana R. Abed, Amena E. Ahmed. Some Complexes of Zink (II) and Manganese (II) with Schiff Base derived from Nicotinamide, Synthesis and Characterization, Antibacterial Evaluation. *Research J. Pharm. and Tech* 2021; 14(3):1711-1715. doi: 10.5958/0974-360X.2021.00304.8 (<https://www.doi.org/10.5958/0974-360X.2021.00304.8>)

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### Formulation and Evaluation of Sublingual Tablet of Tenofovir Alafenamide using Solid Dispersion Method (AbstractView.aspx?PID=2021-14-3-94)

Author(s): Urvashi Jain, Arti Majumdar, Neelesh Malviya

DOI: [10.5958/0974-360X.2021.00305.X](https://www.doi.org/10.5958/0974-360X.2021.00305.X) (<https://www.doi.org/10.5958/0974-360X.2021.00305.X>)

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## Evaluation of Central Nervous System Depressant Action of Catharanthus roseus G. Don Leaves in Mice (AbstractView.aspx?PID=2021-14-3-95)

**Author(s):** Manisha Shinde, Sanjay Chaudhari, Ritu Gilhotra

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**Cite:** Manisha Shinde, Sanjay Chaudhari, Ritu Gilhotra. Evaluation of Central Nervous System Depressant Action of Catharanthus roseus G. Don Leaves in Mice. *Research J. Pharm. and Tech* 2021; 14(3):1719-1722. doi: 10.5958/0974-360X.2021.00306.1 (<https://www.doi.org/10.5958/0974-360X.2021.00306.1>)

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**Author(s):** Jyothisree Vijay, Anjumol Raju, Athul Joseph, Aiswarya Ramesh, Nithya Haridas, Meenu Vijayan

**DOI:** 10.5958/0974-360X.2021.00307.3 (<https://www.doi.org/10.5958/0974-360X.2021.00307.3>)

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**Cite:** Jyothisree Vijay, Anjumol Raju, Athul Joseph, Aiswarya Ramesh, Nithya Haridas, Meenu Vijayan. A Prospective Study to assess the impact of Formoterol and Budesonide Nebulization as add on therapy in the management of Acute Exacerbation of COPD in a Tertiary Care Hospital. *Research J. Pharm. and Tech* 2021; 14(3):1723-1728. doi: 10.5958/0974-360X.2021.00307.3 (<https://www.doi.org/10.5958/0974-360X.2021.00307.3>)

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## Optimization of ultrasound-assisted extraction (UAE) of zeaxanthin from marine microalgae *Dunaliella tertiolecta* (NIOT 141) using response surface methodology (AbstractView.aspx?PID=2021-14-3-97)

**Author(s):** S. Priyanka, R. Kirubakaran, J. T. Mary Leema

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**Author(s):** Kailas M. Karande, Shivaji P. Gawade

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**Author(s):** Alfred Maroyi

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**RESEARCH ARTICLE**

## Characteristic of Nanostructured Lipid Carrier (NLC) Diclofenac Diethylammonium as Function of Ratio of Glyceryl Monostearate and Caprylic Acid

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**ABSTRACT:**

The present study investigated the characteristics of diclofenac diethylammonium-containing NLC as function of ratio of glyceryl monostearate (GMS) and caprylic acid (mygliol 80) of 65:35; 75:25 and 85:15. There were three formulas and the composition of each formula were diclofenac diethylammonium 1.16%; glyceryl monostearate and caprylic acid with ratio (65:35; 75:25 and 85:15); Tween 80 5%; and phosphate buffer pH 6.0 ± 0.1 as dispersion medium. The result showed that each formula had different characteristic of particle size and efficiency entrapment. Particle size was analyzed by Delsa<sup>TM</sup>Nano, F I (65:35) had particle size 134.467 ± 26.601 nm with PI 11.776; F II (75:25) had particle size 2252.233 ± 727.370 nm with PI 0.348; and F III (85:15) had particle size 1500.867 ± 219.673 nm with PI 0.260. The present Entrapment Efficiency (EE) carried out by centrifuge method and result of F I, F II and F III were 88.342 ± 0.52%, 73.764 ± 0.511% and 70.754 ± 0.665%, respectively. The result was analyzed by statistic with ANOVA one-way method with degree of confident 95% ( $\alpha = 0.005$ ). Research result revealed that the best characteristics of diclofenac diethylammonium in terms of particle size and % Entrapment Efficiency (EE) was F I with ratio of GMS and caprylic acid (mygliol 80) 65:35.

**KEYWORDS:** Diclofenac Diethylammonium, NLC, Glyceryl Monostearate, Caprylic Acid, Tween 80.

**INTRODUCTION:**

Diclofenac is a phenylacetic acid derivative and a non-steroidal anti-inflammatory drug (NSAID). The mechanism is via inhibition of selective cyclooxygenase activity<sup>1</sup>. The absorption of rapid oral administration, 40% - 50% diclofenac experience first pass metabolism with  $t_{1/2}$  about 1-3 hours. Diclofenac can be accumulated in synovial fluid and thus potentially suitable for joint treatment<sup>2</sup>. Diclofenac is widely used for the treatment of rheumatoid arthritis, ankylosing spondylitis and osteoarthritis<sup>3</sup>. The most frequently reported adverse events in patients who were given diclofenac are peptic ulcers, vomiting, nausea, and epigastric pain. Intramuscular administration may cause pain and occasionally tissue damage at the injection site.<sup>4</sup>

These problems can be avoided by administration of topical diclofenac<sup>5</sup>. The dose of diclofenac diethylammonium was 1.16% equivalent to 1% diclofenac sodium. Topical administration is recommended for chronic treatment such as rheumatism<sup>6</sup>. Target of its topical administration is the dermis layer<sup>7</sup>. Where the drug must penetrate through barriers including stratum corneum, outer layer of skin containing creatinine and dead cells<sup>8</sup>. Physicochemical characteristics and type of formulation are important factors in transdermal delivery<sup>9</sup>. Diclofenac diethylammonium is more lipophilic than diclofenac sodium so the drug can penetrate deeper into the skin<sup>10</sup>. Lipid carriers such as microemulsions, nanoemulsions, solid dispersions, solid lipid nanoparticles (SLNs) and liposomes have been successfully used to increase transdermal drug solubility and bioavailability<sup>11</sup>. SLN is a nano-carrier system made from a mixture of solid lipids with a high-pressure homogenization method. Solid matrix in SLN provides high flexibility to control drug release (Muller et al, 2000). However, these lipid carriers have some limitations, in the case of a drug

explosion of the SLN system causing the lipid phase to turn into a highly ordered crystal that leaves no room for the active ingredient; Lower drug loading caused by the drug solubility in solid lipids; and the concentration of particles in aqueous dispersions which ranges from 1% to a maximum of 30%<sup>12</sup> To overcome such limitations, new lipid carriers, called nanolipid carriers (NLCs) are developed. NLC is prepared from a mixture of solid lipids and liquid lipids. The solid lipids that are widely used are glyceryl behenate, soy phosphatidylcholine, glyceryl monostearate, cetyl alcohol, and stearyl alcohol. Triglycerides such as carnuba wax, oleic acid, caprylic acid, soybean lipids and olive oil are generally used as liquid lipids<sup>13</sup>. The mixture of solid lipids and liquid lipids provides several advantages, which make the system physically and chemically stable against drug phase separation drug during storage. Most drugs are more dissolved in liquid lipids than those in solid lipids which cause problems in NLCs preparation using hot homogenizing techniques<sup>14</sup>. NLC provides an occlusive effect on the skin by increasing skin hydration so that cell density decreases and dilates the intercellular distance, so that drug molecules can penetrate into the skin<sup>14</sup>. Lipids and surfactants serve as enhancers by increasing drug permeation and affecting the stratum corneum<sup>15</sup>.

Several methods for generating NLCs including high pressure homogenization; evaporation; double emulsion; precipitation techniques; spray drying; and high-speed homogenization followed by ultrasonication<sup>16</sup> In this study, diclofenac diethylammonium -containing NLC system was prepared using glyceryl monostearate and caprylic acid in ratio of 65:35 (FI); 75:25 (FII); and 85:15 (FIII). The physicochemical characteristics of prepared NLC were investigated, including particle size, pH, viscosity, particle morphology, thermal analysis, infrared spectra and entrapment efficiency. Concentration of diclofenac diethylammonium was measured by UV-Vis Spectrophotometry using three wavelengths (266 nm, 276 nm and 286 nm).

**MATERIALS AND METHODS:**

**Materials:**

Materials used in this study, if not otherwise stated, have a degree of pharmaceutical grade in purity. Diclofenac diethylammonium (Aarti Drugs Limited); caprylic acid (Sigma Aldrich); glyceryl monostearate was purchased from Kurniajaya; Tween 80 (Croda); Ethanol 96%, KBr with p.a quality of E Merck. Phosphate buffer pH 6.0 ± 0.1 was made from 0.1 M sodium dihydrogenphosphate and a 0.1 M disodium hydrogenphosphate quality p.a (E Merck).

**Preparation of NLC:**

Diclofenac diethylammonium NLC system is prepared by hot homogenizing method. First, diclofenac diethylammonium was powdered before it was mixed. Glyceryl monostearate and caprylic acid were melted at 60°C on hotplate until completely melted. The aqueous phase was phosphate buffer (pH 6.0 ± 0.1) and Tween 80 which was preheated at 65°C. The water phase was introduced to the lipid phase and mixed using an Ultra-turax homogenizer at a rotational speed of 3600 rpm for 30 minutes in 3 cycles. The formula was further removed from the hotplate and stirred at 1500 rpm for 30 minutes until the samples reached room temperature.

**Table 1 Composition of diethylammonium diclofenac-containing NLC**

Material	weight (gram)		
	F I	F II	F III
Diclofenac diethylammonium	0.580	0.580	0.580
Glyceryl monostearate*	4.875	5.625	6.375
Caprylic acid*	2.625	1.875	1.125
Tween 80	2.500	2.500	2.500
Phosphate Buffer pH 6.0 ± 0.1	39.420	39.420	39.420
Total	50	50	50

\* total lipid : 15% x 50g = 7.5 g

**Standard Solution:**

The standard solution of diclofenac diethylammonium was produced by preparing a series of solutions in phosphate buffer pH 6.0 ± 0.1 (Table 2).

**Table 2. A serial concentration of diclofenac diethylammonium in phosphate buffer pH 6.0 ± 0.1**

Drug Concentration (ppm)	Pipetted Volume (ml)	Total Volume (ml)
2.008	0.5	50.0
6.024	3.0	100.0
10.040	5.0	50.0
15.060	7.5	100.0
20.080	5.0	50.0
25.100	12.5	100.0

**Homogeneity:**

The homogeneity of diclofenac diethylammonium-containing NLC was determined by extracting 50.0 mg NLC with 96% ethanol and sonicated for 2 minutes at 35000 Hz. The samples were then diluted to 10.0 ml with phosphate buffer pH 6.0 ± 0.1 and sonicated again for 15 minutes. Next, samples were pipetted 1.0 ml and diluted to 10.0 ml using phosphate buffer pH 6.0 ± 0.1 and filtered (Whatman® milipore 0.45 µm). The absorbance was measured by Spectrophotometer at 3 wavelength; 266 nm, 276 nm and 286 nm.

Percent recovery was calculated using following equation:

$$\% \text{ Recovery} = \frac{C_t}{C_s} \times 100$$

The Ct is the measured concentration and Cs is the initial concentration in the samples. The coefficient of variation (CV) was calculated and it is considered homogenous if CV is less than 6%.

**Organoleptic:**

Organoleptic characteristics of the diclofenac diethylammonium-containing NLC were visually observed in terms of color, odor and consistency.

**Particle Size:**

The NLC's particle size and distribution were determined using Delsa™ Nano. NLC was diluted in a CO2 free aquadest. The particle size was determined at an angle of 165° and a temperature of 25°C. Particle size was measured from average fluctuations in light scattering intensity.

**pH:**

The pH of the prepared NLCs was measured using pH meter. Prior to measurements, the pH meter was calibrated with standard buffer solution pH 6.0. The electrode was immersed into the samples and waited until the reading is completed.

**Viscosity:**

The viscosity of the NLC samples was measured using a Brookfield Cone and Plate viscometer. Approximately 1 g sample was placed in the middle plate, its position was raised up to the position beneath the cone. The sample was in the shear between the static plate and the rotating cone. The shear speed was increased or decreased by a dial selector and the resulting viscosity was displayed on scale.

Viscosity was calculated using following equation:

$$U = C \frac{T - T_f}{v}$$

in which: C = a constant

T = displayed torque

Tf = Torque on the axis of the shearing stress (extrapolated from the linear part of the curve)

v = cone speed per minutes

**Particle Morphology:**

Examination of particle shape and morphology was carried out using Transmission Electron Microscopy (TEM) technique. NLC samples were added with PTA (Phosphotungstic Acid) in a ratio of 3:1 then placed in a specimen holder which is a copper plate (Cu). The specimen holder was then dried at room temperature for 10-15 min, ready to be analyzed.

**Thermal Analysis:**

Thermal analysis was performed using Differential Thermal Analysis (DTA). This analysis was aimed to determine the interaction between components in the NLC system which is indicated by changes in thermogram and melting point shift.

Samples of 3-5 mg were inserted into aluminum crucible pan, crimped and inserted into the sample holder. Samples were heated in rate of 5°C/min. The obtained thermogram shows the melting point of the materials contained in the sample. The thermogram of diclofenac diethylammonium-containing NLC was compared with the glyceryl monostearate and the diclofenac diethylammonium.

**Infra Red Spectrophotometry:**

Infrared spectroscopy examination aims to determine the compatibility between diclofenac diethylammonium and glyceryl monostearate solids used in the NLC system. Spectral examination was performed on diclofenac diethylammonium, glyceryl monostearate and NLC diclofenac diethylammonium formulas<sup>17</sup> Samples were mounted in KBr pellet prepared by weighing 1 mg of sample and mixed with 200 mg of dried KBr powder and compressed using hydraulic pump. The pump is equipped with water vapor apparatus to produce translucent thin plate. The plates were then scanned at 400-4000 cm<sup>-1</sup> wavelengths.

**Entrapment Efficiency:**

Entrapment efficiency was obtained by calculating the concentration of the free drug in the aqueous phase. 1 gram NLC was dispersed into 10 ml phosphate buffer pH 6.0 ± 0.1 and stirred at 500 rpm for 5 min to dissolve the free drug in the water phase. The dispersion was centrifuged for 10 min at 3000 rpm and the precipitate was separated (NLC particles). Furthermore, 1.0 ml of filtrate was diluted in 10.0 ml phosphate buffer pH 6.0 ± 0.1. Samples were filtered using Millipore 0.45 µm and scanned with a Spectrophotometer at 3 wavelength 266 nm, 276 nm and 286 nm. The concentration of the free drug in the water phase was obtained by introducing absorbance into the standard curve regression equation. Entrapment efficiency was calculated using following equation:

$$EE (\%) = \frac{A_2}{A_1} \times 100$$

EE(%) is entrapment efficiency, A<sub>2</sub> is drug concentration trapped in NLCs, and A<sub>1</sub> is initial loaded drug concentration<sup>18</sup>.



## RESULTS AND DISCUSSIONS:

### Homogeneity:

The purpose of homogeneity test was to ensure that the diclofenac diethylammonium in the NLC system is homogeneous. Therefore, the result of entrapment efficiency (EE) was not caused by the difference of drug concentration but due to difference of formula composition. Recovery of diclofenac diethylammonium in the FI was  $102.376 \pm 1.517\%$  with a coefficient of variation (CV) of 1.481%; Recovery of FII was  $103.613 \pm 1.953\%$  with CV of 1.885%; and recovery of FIII was  $105.049 \pm 0.781\%$  with CV 0.743%. The coefficient of variation of diclofenac diethylammonium in FI, FII and FIII was less than 6% so that all formulas were considered homogeneous. Percent recovery% of all formulas were still within the required range for semisolid, 85-115%.

**Table 3. Homogeneity data of diclofenac diethylammonium-containing NLCs in all formula**

Formula	Replication	% Recovery	Average $\pm$ SD	% CV
I	1	103.808	102.376 $\pm$ 1.517	1.481
	2	100.787		
	3	102.531		
II	1	104.616	103.613 $\pm$ 1.953	1.885
	2	104.861		
	3	101.362		
III	1	105.945	105.049 $\pm$ 0.781	0.743
	2	104.691		
	3	104.511		

### Organoleptic:

All formulas of Diclofenac diethylammonium NLC of exhibited the same white color and slightly odor (Figure 1). Their consistency increases as the amount of solid lipid increases. Similar condition was experienced by <sup>12</sup> in research on NLC. Solid lipids have high melting point and rigid structure that provide high consistency <sup>19</sup>



**Figure 1. Physical appearance of diclofenac diethylammonium-containing NLCs**

### Particle Size:

Particle size of FI was  $134.467 \pm 26.601$  nm, but the polydispersity index (PI) was very high i.e.  $11.776 \pm 3.044$ , the particle distribution was not homogeneous. FII and FIII showed particle sizes of  $2252.233 \pm 727.370$  nm and  $1500.867 \pm 219.673$  nm and a low polydispersity index, ie  $0.348 \pm 0.038$  and  $0.260 \pm 0.076$ , respectively. The large amount of total lipid might have caused lack of agitation resulting in larger particle size, increasing viscosity and movement of NLC particles was restricted. Moreover, a low concentration of surfactant (5%) was not sufficient to break the lipid particles into nano size and could not stabilized it. FI contains lower amount of glyceryl monostearate compared to FII and FIII, where its function was as emulsifier and stabilizer <sup>19</sup> Therefore, FI experienced less stable lipid particles and less controllable and led to the higher PI.

One-way ANOVA statistical analysis showed that particle size and distribution of FI were different from FII and FIII. However, there was no differences in particle size and particle distribution between FII and FIII.

### pH:

The average pH of FI was  $5.45 \pm 0.007$ , FII  $5.52 \pm 0.007$  and FIII was  $5.71 \pm 0.008$ . These data were then statistically tested using one-way ANOVA. The results showed that there were significant differences between FI, FII and FIII. The pH value of NLC was decreased when the caprylic acid concentration was increased. The caprylic acid is composed of an acidic fatty acid so that when it was added to the formula, the NLC pH was dropped proportionally depending on its concentration. The pH value was controlled using phosphate buffer pH  $6.0 \pm 0.1$ , however, the pH of the all formulas was still decreasing. Glyceryl monostearate may also affect the pH since the acidic value of glyceryl monostearate was increased over heating <sup>19</sup> The NLC component was too acidic so that the buffering capacity was not sufficient in maintaining the changing of pH. Buffer capacity was determined by buffer composition. Low buffer concentration causes low buffering capacity. In this study, the concentration of sodium dihydrogen phosphate and disodium hydrogen phosphate was 0.1 M. Therefore, in this case the buffer component concentration needs to be increased. Although pH values did not match the desired pH, all formulas was still in range of pH of the skin i.e. 4.5 to 6.5 <sup>20</sup>.

pH was associated with ionised and unionised form, diclofenac diethylammonium pH is 6.4 – 8.4 <sup>13</sup> so in pH 5 diclofenac diethylammonium would be ionised but because the drug was weak base, ionised form less than unionised form, so active ingredients could be a great entry into skin and NLC dispersion still effective.

pH was associated with ionised and unionised form and diclofenac diethylammonium has pH in range of 6.4 – 8.4<sup>21</sup> So if it is exposed to environment with pH 5, diclofenac diethylammonium would be ionised. However, as the drug was a weak base, then the ionised form would be less than the unionised form. The active ingredient is able to penetrate into the skin and NLC dispersion is still effective.

**Viscosity:**

The diclofenac diethylammonium NLC system is administered topically, and targeting the epidermis. In order to give effect, the drug must penetrate through skin. Prior to penetrating the skin, it has to be released from the NLC. One of factors affecting the drug release is viscosity. Based on the measurements, the viscosities of FI, FII and FIII were 441.3 ± 269.7 cPs.; 924.0 ± 216.7 cPs and 1266.3 ± 267.4 cPs respectively. If the amount of glyceryl monostearate increases, the viscosity also increases and the particles were less mobile, thus, diclofenac diethylammonium was also difficult to release from the NLC particles. Statistical data showed significant differences in viscosity of FI and FIII, but there was no significant differences between FII and FIII. Thus, with a lipid ratio of 75:25 to 85:15, it did not make a significant difference in the viscosity of the NLC system of diclofenac diethylammonium.

**Particle Morphology:**

Particle morphology was examined by Transmission Electron Microscopy (TEM) and they are presented in figure 2. In addition to the particle morphology, TEM can also show the particle size of NLC. Based on the observations, the NLC morphology of FIII with the highest concentration of glyceryl monostearate, has more spherical form than FI and FII. Glyceryl monostearate in FIII was the highest than the other formula. This solid lipid has high melting point than the liquid lipid so that when it is stored below its melting point, the particles are more easily compacted and stable.

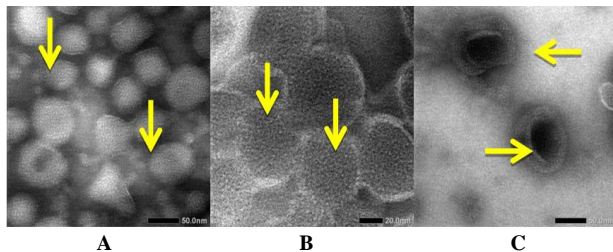


Figure 2. Particle morphology of the NLC captured using TEM with magnification of 80000X. A: FI; B: FII; C: FIII.

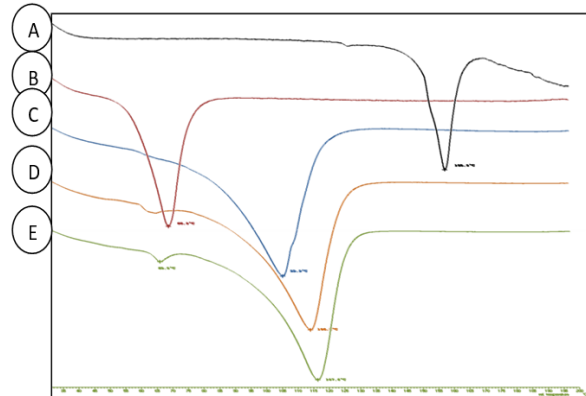


Figure 3. Results of melting temperature examination of diclofenac diethylammonium NLC preparations using DTA.

A: Diclofenac diethylammonium (155.3°C), B: Glyceryl monostearate (66.3°C), C: Formula I (99.9°C), D: Formula II (106.5°C), E: Formula III (107.6°C)

Based on observations of DTA thermogram it can be seen that there is a shift in the melting point of glyceryl monostearate in the NLC system in formulas I, II and III.

**Infra Red Spectrophotometry:**

Figure 4 showed results of infrared spectra of FI, FII and FIII. There was no difference between the spectra of NLC of FI, FII and FIII. Each formula showed no difference in absorbance, and some functional groups in each NLC compound were still observed including C-Cl, O-H and C-O. This suggests that there was no interaction between diclofenac diethylammonium and NLC components.

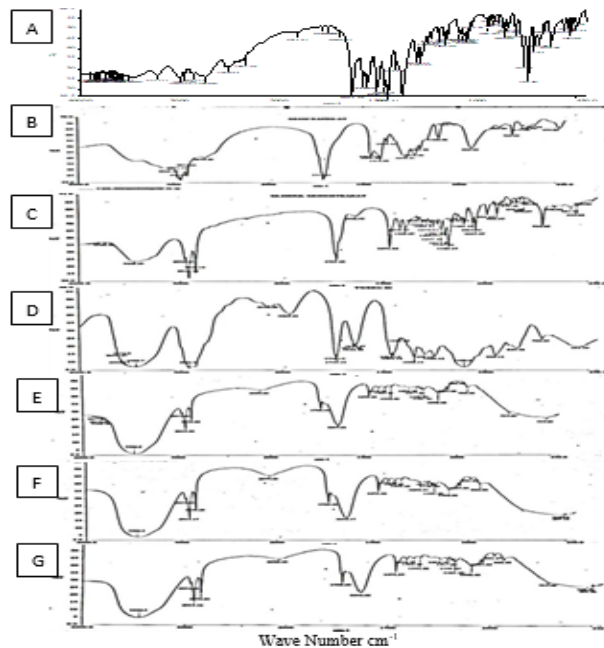


Figure 4. The results of the inspection of the infrared spectrum at wave numbers 400-4000 cm<sup>-1</sup> using FTIR.

A: Diclofenac diethylammonium; B: caprylic acid; C: glyceryl monostearate; D: Tween 80; E: Formula I; F: Formula II; G: Formula III

### Entrapment Efficiency (EE):

The entrapment efficiency of diclofenac diethylammonium in FI was the highest, i.e.  $88.342 \pm 0.52\%$ . FII was  $73.764 \pm 0.511\%$  and FIII was  $70.754 \pm 0.665\%$ . In theory, higher liquid lipid content in NLCs can increase drug solubility in the NLC system so that the EE increases<sup>14</sup>. In addition, higher concentrations of liquid lipids might disrupt the solid lipid crystals and turn them into amorphous. Burst of drug may not occur during storage and entrapment efficiency was higher. Based on statistical analysis using one way ANOVA, it showed that there was a significant difference between FI, FII and FIII.

### CONCLUSION:

The diclofenac diethylammonium NLC system of the three formulas were white in color, the pH increases with increasing caprylic acid (miglyol), the viscosity increases with the increase of glyceryl monostearate, whereas the IR spectra showed the same result of the three formulas. The smallest particle size of the NLC system was FI with the ratio of glyceryl monostearate and caprylic acid was 65:35. The highest Entrapment Efficiency of diclofenac diethylammonium in NLC system was FI with the ratio of glyceryl monostearate and caprylic acid 65:35.

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