Home (http://ipindia.nic.in/index.htm) About Us (http://ipindia.nic.in/about-us.htm) Who's Who (http://ipindia.nic.in/whos-who-page.htm) Policy & Programs (http://ipindia.nic.in/policy-pages.htm) Achievements (http://ipindia.nic.in/achievements-page.htm) RTI (http://ipindia.nic.in/right-to-information.htm) Feedback (https://ipindiaonline.gov.in/feedback) Sitemap (shttp://ipindia.nic.in/itemap.htm) Contact Us (http://ipindia.nic.in/contact-us.htm) Help Line (http://ipindia.nic.in/helpline-page.htm)

Skip to Main Content Screen Reader Access (screen-reader-access.htm)



(http://ipindia.nic.in/index.htm)



(http://ipindia.nic.in/index.htm)

Patent Search

Invention Title	SYNTHESIS AND PHARMACOLOGICAL EVALUATION OF IBUPROFEN ENTRAPPED SILVER NANOPARTICLES USING HERBALS
Publication Number	24/2021
Publication Date	11/06/2021
Publication Type	INA
Application Number	202111023456
Application Filing Date	26/05/2021
Priority Number	
Priority Country	
Priority Date	
Field Of Invention	MECHANICAL ENGINEERING
Classification (IPC)	B82Y003000000, B82Y0040000000, B22F0001000000, A01N0059160000, A61K0031192000
Inventor	

Name	Address	Country	Nationality
Dr. Mohit	Associate Professor,Shri Ram Murti Smarak College of Engineering & Technology, Bareilly (Pharmacy),Ram Murti Puram, Bhojipura, 13 K.M., Bareilly-Nainital Highway, Bareilly, U.P., India, Pin Code-243202	India	India
Dr. Lalit Singh	Professor & Director,Shri Ram Murti Smarak College of Engineering & Technology, Bareilly (Pharmacy),Ram Murti Puram, Bhojipura, 13 K.M., Bareilly-Nainital Highway, Bareilly, U.P., India, Pin Code-243202	India	India
Dr. Girendra Kumar Gautam	Professor & Director,Shri Ram College of Pharmacy, Circular Road, Muzaffarnagar,U.P., India,Pin Code-251001.	India	India
Dr. Manmohan Singhal	Associate Professor, Faculty of Pharmacy, DIT University, Mussorrie Diversion Road, Dehradun, Uttarakhand, India, Pin Code-248009.	India	India
Dr. Amit Kumar Verma	Faculty Department of Pharmacy, MJP Rohilkhand University Bareilly, U.P., India, Pin Code -243006.	India	India
Dr. Ajeet Singh	Professor & Principal, Department of Pharmaceutical Sciences, J.S. University, 5th Km. Mile Stone, Mainpuri Road, Shikohabad, Firozabad, U.P., India, Pin Code- 283135.	India	India
Dr. Piush Sharma	Professor & Principal, Maharishi Arvind College of Pharmacy, Ambabari, Jaipur, Rajasthan, India, Pin code- 302039.	India	India
Dr. Parveen Kumar	Professor & Head, Shri Ram College of Pharmacy, Indri Road, Ramba, Karnal, Haryana, Pin Code-132116	India	India
Dr. Ganesh N. Sharma	Professor & Head, Department of Pharmacology, School of Pharmaceutical Sciences, Jaipur National University, Jaipur, Rajasthan, India, Pin Code-302017.	India	India
Dr. Ritesh Jain	Associate Professor, Department of Pharmacology, School of Pharmacy, Chaouksey Engineering College, Lal Khadan, NH-49, Bilaspur, Chhattisgarh, India, Pin Code-495001	India	India
Dr. Vipin Kumar	Department of Pharmaceutical Sciences, Gurukul Kangri (Deemed to be University), Haridwar, India, Pin Code249404	India	India
Dr. Anirudha Rishi	Principal, St Wilfred College of Arts, Commerce and Science, Panvel, Dist- Raigad, Maharashtra, India, Pin Code- 410206	India	India
Dr. Deenanath Jhade	Professor & Principal, St. Wilfred's Institute of Pharmacy, Panvel Dist- Raigad, Maharashtra, India, Pin Code- 410206	India	India
Mr. Gulshan Rathore	Assistant professor, School of Pharmacy & Research Centre-Sanskriti University, 28 K.M. Stone, NH-2, Chhata, Mathura, U.P., India, Pin Code-281401	India	India

Name	Address	Country	Nationality
Dr. Mohit	Associate Professor,Shri Ram Murti Smarak College of Engineering & Technology, Bareilly (Pharmacy),Ram Murti Puram, Bhojipura, 13 K.M., Bareilly-Nainital Highway, Bareilly, U.P., India, Pin Code-243202	India	India
Dr. Lalit Singh	Professor & Director,Shri Ram Murti Smarak College of Engineering & Technology, Bareilly (Pharmacy),Ram Murti Puram, Bhojipura, 13 K.M., Bareilly-Nainital Highway, Bareilly, U.P., India, Pin Code-243202	India	India
Dr. Girendra Kumar Gautam	Professor & Director,Shri Ram College of Pharmacy, Circular Road, Muzaffarnagar,U.P., India,Pin Code-251001.	India	India
Dr. Manmohan Singhal	Associate Professor, Faculty of Pharmacy, DIT University, Mussorrie Diversion Road, Dehradun, Uttarakhand, India, Pin Code-248009.	India	India
Dr. Amit Kumar Verma	Faculty Department of Pharmacy, MJP Rohilkhand University Bareilly, U.P., India, Pin Code -243006.	India	India
Dr. Ajeet Singh	Professor & Principal, Department of Pharmaceutical Sciences, J.S. University, 5th Km. Mile Stone, Mainpuri Road, Shikohabad, Firozabad, U.P., India, Pin Code- 283135.	India	India
Dr. Piush Sharma	Professor & Principal, Maharishi Arvind College of Pharmacy, Ambabari, Jaipur, Rajasthan, India, Pin code- 302039.	India	India
Dr. Parveen Kumar	Professor & Head, Shri Ram College of Pharmacy, Indri Road, Ramba, Karnal, Haryana, Pin Code-132116	India	India
Dr. Ganesh N. Sharma	Professor & Head, Department of Pharmacology, School of Pharmaceutical Sciences, Jaipur National University, Jaipur, Rajasthan, India, Pin Code-302017.	India	India
Dr. Ritesh Jain	Associate Professor, Department of Pharmacology, School of Pharmacy, Chaouksey Engineering College, Lal Khadan, NH-49, Bilaspur, Chhattisgarh, India, Pin Code-495001	India	India
Dr. Vipin Kumar	Department of Pharmaceutical Sciences, Gurukul Kangri (Deemed to be University), Haridwar, India, Pin Code249404	India	India
Dr. Anirudha Rishi	Principal, St Wilfred College of Arts, Commerce and Science, Panvel, Dist- Raigad, Maharashtra, India, Pin Code- 410206	India	India
Dr. Deenanath Jhade	Professor & Principal, St. Wilfred's Institute of Pharmacy, Panvel Dist- Raigad, Maharashtra, India, Pin Code- 410206	India	India
Mr. Gulshan Rathore	Assistant professor, School of Pharmacy & Research Centre-Sanskriti University, 28 K.M. Stone, NH-2, Chhata, Mathura, U.P., India, Pin Code-281401	India	India

Abstract:

The present invention relates to synthesis of ibuprofen loaded silver nanoparticles by using herbal extract. The method used for the synthesis of silver Nano particles by green synthesis and to formulate a cost-effective antibacterial dosage form. The prepared ibuprofen loaded silver nanoparticles by using fruit extracts were effective against the gram negative bacteria E.coli.

Complete Specification

The present invention relates to a "Potentiation of Antibacterial Efficacy of Ibuprofen Entrapped Silver Nanoparticles by Green Synthesis" BACKGROUND OF THE INVENTION

Antibiotic resistant problem is a global concern because of the ability of bacteria to cause community acquired infection. Many scientific approaches have been developed to deal with antibiotic resistance and to make antibiotic more therapeutic, safe and effective. In this development silver was found as antimicrobial agent with distinctive properties of conductivity, stability, and activity. Previous data show that nanoparticles of silver are effective against a wide spectrum of bacteria, fungi, viruses, some infectious diseases and burn wounds. With the rise in microbial resistance of to various antibiotics, researchers are urged to grow silver nanoparticles free of resistance and cost by various green sources. The antibacterial efficacy of silver nanoparticle was found more when they are loaded with antibacterial agent by green synthesis. Silver (Ag) is a soft, white, lustrous transition metal having 47 atomic number. Silver has the highest thermal and electrical conductivity and one of the highest optical reflectivity of any metal. The unique properties of silver nanoparticles like, optical, electrical, and magnetic etc makes them suitable to be used in antimicrobial applications, biosensors, cosmetics etc. Specific physical and chemical approaches have been used in Ag nanoparticles synthesis and stabilization. Chemical reduction is the most popular chemical approach which includes an array of organic and inorganic reducion agents.

In recent days, synthesis of Ag nanoparticle is the most interesting research field in science, and nanoparticles are being developed with growing focus using environmentally friendly methods (green chemistry). Silver and its nanoparticles have a ample application in medicinal products such as skin ointments and silver

creams that prevent burns, open wounds and microbial attack.

View Application Status



Department of Industrial Policy and Promotion Government of India

Terms & conditions (http://ipindia.gov.in/terms-conditions.htm) Privacy Policy (http://ipindia.gov.in/privacy-policy.htm) Copyright (http://ipindia.gov.in/copyright.htm) Hyperlinking Policy (http://ipindia.gov.in/hyperlinking-policy.htm) Accessibility (http://ipindia.gov.in/accessibility.htm) Archive (http://ipindia.gov.in/archive.htm) Contact Us (http://ipindia.gov.in/contact-us.htm) Help (http://ipindia.gov.in/help.htm)

Content Owned, updated and maintained by Intellectual Property India, All Rights Reserved.