Patent Search

Invention Title	SUBSTITUTED PHENOXY PHENYLETHYLIDENE DERIVATIVE AS ANTIMICROBIAL AGENT
Publication Number	05/2021
Publication Date	29/01/2021
Publication Type	INA
Application Number	202111002121
Application Filing Date	16/01/2021
Priority Number	
Priority Country	
Priority Date	
Field Of Invention	MICRO BIOLOGY
Classification (IPC)	C12R 1/125 A61K 31/18 A61K 31/5377

Inventor

Name	Address	Country	Nat
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	Indi
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	Indi
Dr. Sushil Kumar	Professor & Director, School of Pharmaceutical Sciences, IFTM University, Lodhipur Rajput, Delhi Road Moradabad, U.P., India. Pin Code-244102	India	Indi
Dr. Navneet Verma	Director & Dean, Pharmacy Academy, IFTM University, Lodhipur Rajput, Delhi Road, Moradabad-244102, U.P., India.	India	Indi
Dr. Ajeet Singh	Principal, Department of Pharmaceutical Sciences, J.S. University, 5th Km. Mile Stone, Mainpuri Road, Shikohabad, Firozabad, U.P., India. Pin Code- 283135	India	Indi
Dr. Rita Mourya	Professor Department of Pharmaceutical Chemistry Laxmi Narain College of Technology , (Pharmacy) Raisen Road, Kalchuri Nagar, Bhopal, Madhya Pradesh Pin Code- 462022	India	Indi
Dr. Arun Kumar Mishra	Professor and Head, Pharmacy Academy, IFTM University, Lodipur-Rajput, Moradabad, U.P., India. Pin Code- 244102	India	Indi
Dr Subbiah Ramasamy	Associate Professor Dept of Pharmacy MJP Rohilkhand University Bareilly UP	India	Indi
Dr. Raja Abhilash Punagoti	HOD and Associate Professor, Department of Pharmaceutical Analysis, Sri Kakatiya Institute of Pharmaceutical sciences, Waddepally,Unikicherla Road, Hanamkonda, Warangal, Telangana, India 506002.	India	Indi
Dr. Abhishek Suman	Assistant Professor, Government Pharmacy Institute, Agamkuan, Gulzarbagh, Patna-800007, India	India	Indi
Seema Mahor	Associate Professor Vishveshwarya group of institutions and technology,GB Nagar Dadri. Greater Noida phase II, Pin code 203207	India	Indi
Deepak Singh	Assistant Professor, Teerthanker Mahveer College Of Pharmacy, TMU, Moradabad PIN code -244001	India	Indi
Amit Kumar Verma	Faculty Dept of Pharmacy, MJP Rohilkhand University Bareilly, U.P., India. Pin Code -243006	India	Indi
Himanshu Gautam	Swami Dayanand Saraswati Educational Institute, Bhawalpur bansli, Post- sarkara kamal Distt- Sambhal, U.P., Pin Code- 244222	India	Indi

Applicant

Name	Address	Country	Nat
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	Indi

Abstract:

Substituted phenoxy phenylethylidene derivatives of Formula I or its pharmaceutically acceptable salt (HG-1 to HG-4) were obtained and screened for antimicrobial activity structures of these compounds were established on the basis of M.P, TLC, IR, 1H-NMR spectral analysis. The target compounds were found to be tested against Bacillus Su (Gram positive), E.Coli (Gram negative) bacteria and Candida albicans, when compared with the reference drugs ampicillin and clotrimazole. Among the compounds testec showed maximum zone of inhibition 20 mm against B.subtilis.

Complete Specification

The present invention is in technical field related to synthesis of organic molecules having functional group that contain a carbon-nitrogen double bond with the nitrogen atom connected to aryl group used as an antimicrobial agent. More particularly, the present invention relates to substituted phenoxy phenylethylidene derivatives used to kill or inhibits the growth of microbes such as bacteria, fungi, or viruses commonly used as antimicrobial agent. Further the present invention also relates to process for producing substituted phenoxy phenylethylidene derivatives, its acid addition salt thereof, and to the pharmaceutical composition comprising such compounds and a pharmaceutically acceptable salts thereof.

BACKGROUND OF THE INVENTION

Bacteria threatening life and affecting the health status of people living in the world by both Gram-negative and Gram-positive bacteria. The uptake or the ingestion of water and/or food contaminated with bacteria such as Salmonella typhi, Escherichia coli including Clostridium, Pseudomonas and Bacillus species

View Application Status