

पेटेंट कार्यालय  
शासकीय जर्नल

**OFFICIAL JOURNAL  
OF  
THE PATENT OFFICE**

---

---

निर्गमन सं. 12/2026  
ISSUE NO. 12/2026

शुक्रवार  
**FRIDAY**

दिनांक: 20/03/2026  
DATE: 20/03/2026

---

---

पेटेंट कार्यालय का एक प्रकाशन  
PUBLICATION OF THE PATENT OFFICE

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202611010915 A

(19) INDIA

(22) Date of filing of Application :02/02/2026

(43) Publication Date : 20/03/2026

(54) Title of the invention : SYNTHESIS OF 2-METHYL-N-(4-H-1,2,4-TRIAZOL-4-YL)BENZAMIDE AS AN ANTIFUNGAL AGENTS

(51) International classification	:A61P31/10, C07D249/08, A61K31/4196	(71)Name of Applicant : <b>1)Anshul Sharma</b> Address of Applicant :Pharmacy Academy, Faculty of Pharmacy, IFTM University, Moradabad, Uttar Pradesh Uttar Pradesh India
(31) Priority Document No	:NA	<b>2)Shweta Verma</b>
(32) Priority Date	:NA	<b>3)Ranjeeta Verma</b>
(33) Name of priority country	:NA	<b>4)Uma Agarwal</b>
(86) International Application No	:	(72)Name of Inventor :
Filing Date	:01/01/1900	<b>1)Anshul Sharma</b>
(87) International Publication No	: NA	<b>2)Shweta Verma</b>
(61) Patent of Addition to Application Number	:NA	<b>3)Ranjeeta Verma</b>
Filing Date	:NA	<b>4)Uma Agarwal</b>
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates to novel acylamino-1,2,4-triazole derivatives and a method for their synthesis. The compounds are prepared by reacting 4-amino-1,2,4-triazole with aromatic or aliphatic acid chlorides in the presence of a base using conventional and microwave-assisted techniques. The synthesized compounds are characterized by melting point determination, thin-layer chromatography, UV-visible spectroscopy, FT-IR, and <sup>1</sup>H NMR analysis to confirm their structural integrity and purity. The disclosed acylamino-1,2,4-triazole derivatives exhibit significant antifungal activity against phytopathogenic fungi such as *Fusarium verticillioides*, *Macrophomina phaseolina*, and *Rhizoctonia solani*. The invention highlights the potential of the 1,2,4-triazole scaffold as a promising platform for developing new antifungal agents for agricultural and pharmaceutical applications.

No. of Pages : 15 No. of Claims : 6