Available online at www.joac.info

ISSN: 2278-1862

Journal of Applicable Chemistry

2015, 4 (3): 840-846

(International Peer Reviewed Journal)

Synthesis And Biological Evaluation Of *N*-(Benzo[D]Thiazol-2-Yl)-6-Methoxy-5-(Phenylamino)Picolinamide Derivatives As Antimicrobial Agents

Vasu Namani[1], B. Bharath Kumar Goud[1]*, Y. Bharathi Kumari[2] and Ramesh Kumbham[3]

1. Suven Life Sciences Ltd, Jeedimetla, Hyderabad-500055, **INDIA**
2. Department of Chemistry, Jawaharlal Nehru Technological University, Kukatpally, Hyderabad-500072, **INDIA**
3. Rational Laboratories Private Ltd, Mallapur, Hyderabad-500007, **INDIA**

Email: bkgoud2014@gmail.com

Accepted on 5th May 2015

ABSTRACT

*A new series of novel 2-methoxy-N-phenyl-6-(5-phenyl-1, 3, 4-oxadiazol-2-yl) pyridin-3-amine (**6a-i**) have been synthesized. All the newly synthesized compounds were screened for their in vitro antibacterial activity, against various Gram-positive and Gram-negative strains of bacteria and fungal strains. Amongst these compounds **6c** and **6e** were found to be the most potent against bacterial strains. Compounds **6h** and **6i**, with fluoro atoms on aniline ring exhibited selective inhibition against E. coli. Further, these compounds were exhibited mild to moderate antifungal activity in comparison to the standard drugs.*

Keywords: 2-Amino benzothiazoles, Antibacterial activity, Antifungal activity.