Latin American Journal of Pharmacy
(formerly *Acta Farmacéutica Bonaerense)*
Lat. Am. J. Pharm. **29** (4): 607-11 (2010)

Short Communication

Received: July 25, 2009
Accepted: October 29, 2009

Synthesis and Antibacterial Activity of Some 2,4,6-trisubstituted-1,3,5-triazines

Udaya Pratap SINGH [1]*, Aparoop DAS [2], Dipak CHETIA [2], Ashokanshu BHATTACHARYA [2], Yadav Pankajkumar SUBHASCHANDRA [1], Vikas KUMAR [1] & HansRaj BHAT [1]

[1] *Department of Pharmaceutical Sciences, Allahabad Agricultural Institute-Deemed University, 211007, Allahabad, Uttar Pradesh, India*

[2] *Department of Pharmaceutical Sciences, Dibrugarh University, 786004, Dibrugarh, Assam, India*

SUMMARY. A series of 2,4-bis(substitutedphenyl)-6-(4-(4-substitutedphenyl)thiazol-2-yl)-1,3,5-triazine-2,4,6-triamine were synthesised, characterised by FT-IR, ^{1}H NMR, ^{13}C NMR, mass and elemental analysis and evaluated for *in vitro* antibacterial activity against three gram positive and gram negative bacteria by disk diffusion test and agar dilution technique with reference to streptomycin as standard. The antibacterial data revealed that compounds 2,4-bis(substitutedphenyl)-6-(4-(4-nitrophenyl)thiazol-2-yl)-1,3,5-triazine-2,4,6-triamine had significant activity against the tested gram negative organism in reference to standard. However, these were nearly inactive against gram positive organisms.

KEY WORDS: Synthesis, Antibacterial activity, 1,3,5-triazine.

* Author to whom correspondence should be addressed. *E-mail:* udaysingh98@gmail.com