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Design, Synthesis and Antimicrobial Activity of 4-Thiazolidinonyl-quinazolin-4(3H)-ones of Diclofenac Analogue

Navin B. PATEL*, Jaymin C. PATEL and Virendra N. PATEL

Department of Chemistry, Organic Research Laboratory,
Veer Narmad South Gujarat University, Surat 395007, Gujarat, India

SUMMARY. A series of 7-chloro-3-(2-substituted phenyl-4-oxo-thiazolidin-3-yl)-2-[2-(2,6-dichlorophenyl) amino]benzyl-quinazolin-4(3*H*)-ones (**5a-j**) have been synthesized and characterized by elemental analyses as well as IR and NMR spectra. The Schiff bases **4a-j** and 4-thiazolidinones **5a-j** have been sceened for *in vitro* antimicrobial activity by cup-plate method. Compounds **4f**, **4g**, **4h**, **5f**, **5g** and **5h** possessed very good antibacterial as well as antifungal activity.

KEY WORDS: Antimicrobial activity, Diclofenac, Quinazolin-4(3*H*)-one, 4-thiazolidinone

* Author to whom correspondence should be addressed. *E-mail:* drnavin@satyam.net.in

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