

Synthesis and Antimicrobial Activity of New Substituted Fused 1,2,4-Triazole Derivatives

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Z. Naturforsch. **65c**, 22–28 (2010); received July 13/August 12, 2009

A number of new substituted 1,2,4-triazole, 1,2,4-triazolo[3,4-*b*]1,3,4-thiadiazole and 1,2,4-triazolo[3,4-*b*]1,3,4-thiadiazine derivatives were synthesized and tested for their antimicrobial activity against *Bacillus subtilis* (Gram-positive), *Pseudomonas aeruginosa* (Gram-negative), and *Streptomyces* species (Actinomycetes). The synthesized compounds displayed different degrees of antimicrobial activities or inhibitory actions.

Key words: 1,2,4-Triazoles, 1,2,4-Triazolo[3,4-*b*]1,3,4-thiadiazoles, 1,2,4-Triazolo[3,4-*b*]1,3,4-thiadiazines