



Synthesis and Antibacterial Activities of Two Novel Pyran Annulated Heterocyclic Compounds

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SUMMARY. Two new novel pyran annulated heterocyclic compounds (**1** and **2**) were synthesized and characterized via IR, ¹H NMR, HRMS, and single crystal X-ray crystallography. The *in vitro* antibacterial activities of the two compounds against *Staphylococcus aureus* (*S. aureus* ATCC 29213), methicillin-resistant *S. aureus* (MRSA XJ 75302), vancomycin-intermediate *S. aureus* (Mu50 ATCC 700699), and USA 300 (Los Angeles County Clone, LAC) were evaluated by observing the minimum inhibitory concentration.

RESUMEN. Dos nuevos compuestos heterocíclicos pirano-anillados (**1** y **2**) fueron sintetizados y caracterizados a través de IR, ¹H NMR, HRMS y cristalografía de rayos X. La actividad antibacteriana *in vitro* de los dos compuestos frente a *Staphylococcus aureus* (*S. aureus* ATCC 29213), *S. aureus* resistente a la meticilina (MRSA XJ 75302) y *S. aureus* vancomicina intermedia (Mu50 ATCC 700699) y USA 300 (Los Angeles County Clone, LAC) se evaluaron mediante la observación de la concentración mínima inhibitoria.

KEY WORDS: crystal, minimum inhibitory concentration, pyran, *Staphylococcus aureus*.

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