

Title	Antimicrobial Activity Of Benzoylthiourea Derivatives
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Abstract	<p>Purpose. In the course of a structure-activity relationship study on benzoylthiourea derivatives, a series of compounds bearing alkyl and aryl derivatives was synthesized with the expectation of antimicrobial activity.</p> <p>Methods. Benzoylthiourea derivatives were synthesized using KSCN, substitute benzoylchloride and disubstitue amine. Antibacterial activities of benzoylthiourea derivatives were examined against Staphylococcus aureus (ATCC 29068), Enterococcus faecalis (ATCC 29212), Escherichia coli (ATCC 25922), Pseudomonas aeruginosa (ATCC 27853), Staphylococcus epidermidis (ATCC 12228) by means of a two-fold serial broad dilution method in Mueller-Hinton media for bacteria. In addition, antifungal activities of the compounds were investigated against Candida albicans employing incubation of 48 hours.</p> <p>Results. Synthesized compounds showed inhibitory activity against Gram – positive and Gram-negative bacteria, and fungi. Conclusion. Data obtained in this study suggested that the presence of hydrophobic substituents of certain structures might be crucial for the optimal antimicrobial activity.</p>

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