



Synthesis and *In-Vitro* Biological Studies of 1-Hepta-*O*-Benzoyl- β -D-Lactosyl-3-Alkyl Carbamates

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ABSTRACT

*Several 1-Hepta-*O*-benzoyl- β -D-lactosyl-3-alkyl carbamates have been synthesized by the interaction of Hepta-*O*-benzoyl- β -D-lactosyl isocyanate with various alcohols. The identities of these newly synthesised *N*-lactosyl carbamates have been established on the basis of usual chemical transformations and IR, ¹H NMR and Mass spectral studies. These compounds were screened for their antibacterial activity and antifungal activity against some selected pathogenic organisms to get potent bioactive molecule.*

Keywords: *N*-lactosyl isocyanate, alcohols, *N*-lactosyl carbamates, antimicrobial screening.
