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Synthesis, Characterization And Microbial Studies of N-Lactosylated Isothiobiurets

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ABSTRACT

Several 1-Hepta-O-acetyl- β -D-lactosyl-5-aryl-isothiobiurets were synthesized by the interaction of Hepta-O-acetyl- β -D-lactosyl thiocarbamides with various aryl isocyanates respectively and were screened for their antibacterial and antifungal activities against some selected pathogenic organisms like *E. coli*, *S. aureus*, *Ps. aeruginosa*, *P. vulgaris*, *B. cereus* and *A. niger*, *C. albicans* to get potent bioactive molecule. The identities of these new N-lactosides have been established on the basis of elemental analysis, IR, ¹HNMR, ¹³CNMR and MS spectral studies.

Keywords: Lactosyl thiocarbamides, lactosyl isothiobiurets, synthesis, antimicrobial Activity.
