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| Title | Synthesis of 1-phenyl-3,4-dihydropyrimidine-2(1H)-ones derivatives under solvent free condition and study of their antimicrobial activity. | | |
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| Abstract |  |
| We report herein the use of nickel nitrate hexahydrate [Ni(NO3)2 .6H2O] as a new catalyst for the one-pot Biginelli like reaction coupling of 1-phenyl thiourea, ethyl acetoacetate and aromatic aldehydes to afford the corresponding 1-phenyl-3,4-dihydropyrimidin-2(1H)-thiones under solvent free condition to avoid the usage of hazardous organic solvents. The synthesized compounds were evaluated for their antimicrobial activity by KIRBY-BAUER disk diffusion method. Most of the compounds showed good to moderate antimicrobial activity. | |