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## Efficient synthesis, molecular docking and biological evaluation of novel isatine linked spiroheterocycle through multi-component reaction

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In this work, twelve compounds have been newly synthesized by one pot N-Mannich base multicomponent reaction. The synthesized compounds have been characterized by using FT-IR, <sup>1</sup>H and <sup>13</sup>C NMR and mass spectrometry. The final compounds have been evaluated for their *in vitro* antibacterial and antifungal activity using agar-well diffusion method. The tested compounds show poor to good activity with inhibition zone value between 8 to 25 mm, when compared to reference Ciprofloxacin and Flocanazole. Among them compounds **6b**, **6c**, **6d** and **6g** show most promoting activity against *E.coli*, *B. cereus*, *B. substilis*, *A. niger* and *R. nigricans*.

**Keywords:** N-Mannich base, Isatine, Gabbapentin-lactum, Antibacterial activity, Antifungal activity