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Green approach for the synthesis of thiophenyl pyrazoles and isoxazoles by adopting 1,3-dipolar cycloaddition methodology and their antimicrobial activity

D.V. Sowmya, G. Lakshmi Teja, A. Padmaja, V. Kamala Prasad, V. Padmavathi



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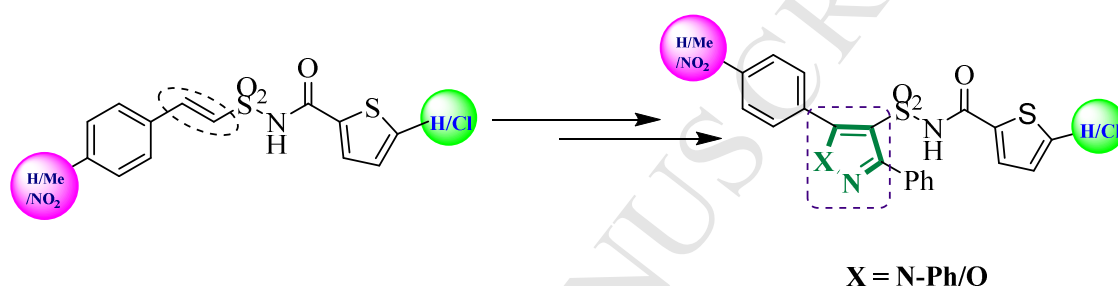
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## GRAPHICAL ABSTRACT

**Green Approach for the Synthesis of Thiophenyl Pyrazoles And Isoxazoles By Adopting 1,3-Dipolar Cycloaddition Methodology And Their Antimicrobial Activity**



- Thiophenyl pyrazoles and isoxazoles were synthesized by 1,3-dipolar cycloaddition of nitrile imines and nitrile oxides to *N*-(arylethenesulfonyl)thiophene-2-carboxamides under green conditions followed by aromatization.
- The presence of electronwithdrawing substituents on the aromatic ring increased the activity.
- **4f, 7e, 7f, 8e, 8f**; MIC = 6.25 µg/well against *B.subtilis*.
- **8e, 8f**; MIC = 6.25 µg/well against *A.niger*.

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