

عنوان مقاله:

Novel unsymmetric diimines: Synthesis and biological evaluation against pathogenic microorganisms

محل انتشار:

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خلاصه مقاله:

In this research study, three new unsymmetric diimines (۳a-۳c) were prepared using a two-step process. The synthesized unsymmetric tetradentate diimines were elucidated by FT-IR, ¹H-NMR, LC-MS, elemental analysis techniques. The antimicrobial and the antifungal properties of newly synthesized unsymmetrical diimines (۳a-۳c) and previously reported by one of us unsymmetrical diimines (۴a-۴c) were evaluated against *L. monocytogenes* ۴b, *B. cereus* sp., *S. typhi* H, *Br. abortus*, *S. epidermis* sp., *M. Luteus* sp., *E. coli*, *P. putida* sp. Sh. dys. typ. ۷ ve *C. albicans*. ۳b, ۳c, ۴a and ۴c are showed the highest antimicrobial activity against *B.cereus* sp. ۳a and ۴b are exhibited the highest activity against *S.epidermis* sp. and *Br. abortus*, respectively. In addition, all unsymmetrical diimines are showed high antifungal activity against *C. albicans*.

کلمات کلیدی:

Antibacterial agents, reduction, Sodium dithionite, Unsymmetric diimine

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