

Abstract

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Fungidal and bacterial activity of *N,N*-dimethyl-4-(2,2,2-trichloro-1-(phenylamino)ethyl)aniline

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N,N-dimethyl-4-((phenylamino)methyl)aniline (**1**) was prepared by condensation of aniline and 4-(dimethylamino)benzaldehyde [1] *N,N*-dimethyl-4-(2,2,2-trichloro-1-(phenylamino)ethyl)aniline (**2**) was synthesized by trichloromethylation of the imine (*N,N*-dimethyl-4-((phenylimino)methyl)aniline (**1**)) with trichloroacetic anhydride under microwave irradiation [2] (*Scheme 1*).

The present work reports the study of bacterial and yeast activity for the compound **2**. The bacteria used in this study are *Staphylococcus aureus*, *Escherichia coli* and the yeast are *Saccharomyces Cerevisiae Candida albican*. The results that we will present are the determination of minimal inhibitory concentration (MIC), by means of microdilution by plate method and the specific growth constants for this microorganism.

Further studies are being performed to determine viability and cellular injury with this drug.

Bibliography

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