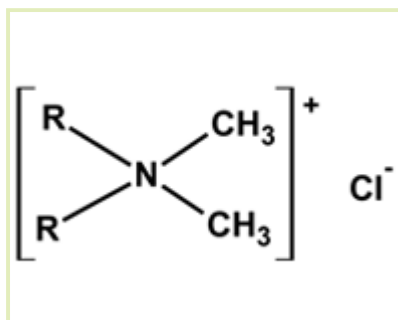


Fungicidal Activity of Globally Acceptable Quaternary Ammonium Disinfectants

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Structure of didecyl dimethyl ammonium chloride (DDAC), where R=n-decyl.

INTRODUCTION Quaternary ammonium compounds have been used as active ingredients in hard surface disinfectant products since the 1930s, with hundreds of iterations now available. The structure of these compounds includes a positively charged nitrogen atom with four organic groups attached (1). Over the years, various QACs have been developed with different combinations of alkyl and aromatic groups bonded to the nitrogen atom, and these formulations are now used globally (2). An important factor affecting the selection of a QAC for a disinfectant formulation is if appropriate regulatory bodies,...

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