

The Cleansing Effects of Hydrogen Peroxide

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Abstract

Hydrogen peroxide is commonly used in wound care as a cleanser and oxidizer.

Escherichia coli (*E. coli*), *Serratia marcescens* (*S. mar*), and *Micrococcus luteus* (*M. luteus*) are all bacteria that are found in the human flora and are considered opportunistic pathogens. With the help of the rad9 gene, after repeated exposure to 3% concentration of hydrogen peroxide *E. coli*, *S. mar*, and *M. luteus* should have become completely tolerant. However, *E. coli* became more sensitive. *S. mar* became completely tolerant, and *M. luteus* kept a growth radius that was no large enough to be considered safe.