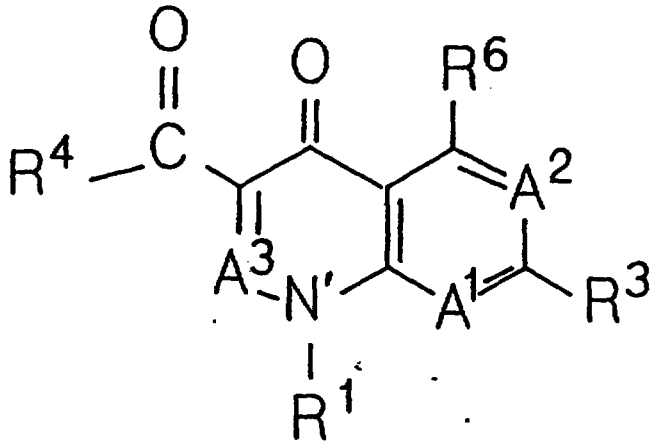
NOVEL ANTIMICROBIAL DITHIOCARBAMOYL QUINOLONES

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ABSTRACT OF THE DISCLOSURE

Antimicrobial dithiocarbamoyl quinolone compounds of the general formula:



wherein

(1) A^1, A^2, A^3, R^1, R^3, R^4, and R^6 form any of a variety of quinolone and related heterocyclic structures similar to those known in the art to have antimicrobial activity; and

(2) (1) R^1 is X, R^3 is X, or both R^1 and R^3 are X; and

(2) X is $-R^{15}-N(R^{16})(R^{17})$ or $-R^{15}-R^{18}-N(R^{19})(R^{17})$, where

(a) (1) R^{15} is nil, alkyl, a carbocyclic ring, or a heterocyclic ring; and

(2) R^{16} is hydrogen; alkyl; alkenyl; a carbocyclic ring; a heterocyclic ring; or

(3) when X is $R^{15}-N(R^{16})(R^{17})$, R^{16} and R^{15} may together comprise a heterocyclic ring including the nitrogen atom to which R^{15} and R^{16} are bonded;

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(b) R^{17} is C(=S)-S-M, where M is a pharmaceutically-acceptable salt or biohydrolyzable ester; and

(c) (1) R^{18} is alkyl, a carbocyclic ring, or a heterocyclic ring; and

(2) R^{19} is hydrogen; alkyl; alkenyl; a carbocyclic ring; a heterocyclic ring; or

(3) R^{18} and R^{19} may together comprise a heterocyclic ring including the nitrogen atom to which R^{18} and R^{19} are bonded;

and pharmaceutically-acceptable salts and biohydrolyzable esters thereof, and hydrates thereof.

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