antibiotics
U 1200
33 - 252

Synthesis and Structure-Activity Relationship of (Lactamylvinyl) cephalosporins Exhibiting Activity Against Staphylococci, Pneumococci, and Enterococci. — The novel class of title compounds, such as (IX) (25 examples), exhibits excellent antibacterial activity against Gram-positive and Gram-negative organisms, preferably enterococci, and retains the broad spectrum activity of third-generation cephalosporins, e.g. ceftriaxone. Structural parameters like the lactamyl ring size, the configuration at the exo double bond, and the type of substitution of the oxyimino group and the lactamyl ring influence the activity. — (HEINZE-KRAUSS, I.; ANGEHRN, P.; GUERRY, P.; HEBEISEN, P.; HUBSCHWERLEN, C.; KOMPIS, I.; PAGE, M. G. P.; RICHTER, H. G. F.; RUNTZ, V.; STALDER, H.; WEISS, U.; WEI, C.-C.; J. Med. Chem. 39 (1996) 9, 1864-1871; F. Hoffmann-La Roche Ltd., CH-4002 Basel, Switz.; EN)