

A NEW METHOD FOR THE SYNTHESIS OF 7 α -METHOXYCEPHALOSPORINS

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7 β -(2-Benzenesulfinyl-1-propenyl)aminocephalosporin ester(1), which was obtained by the condensation of amino ester(2) with the aldehyde(6), was treated with NBS and sodium borate in MeOH successively to yield 7 α -methoxycephalosporin(3) in good yield via intermediates (7) and (8). Removal of the side chain of the 7 β -amino group of (3) was achieved by the successive treatment with PCl₅ and Girard T to give the 7 α -methoxylated amino ester(4) via intermediate (9), which was converted to 7 β -acylamino compound(5).

