

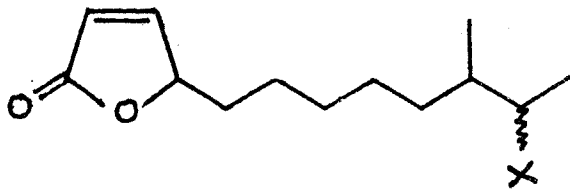
E2-50: Two novel butenolides from a marine actinomycetes species

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In a programme to discover new clinically useful antibiotics from marine microorganisms, an unidentified marine actinomycetes species - UBU collection number 1896 - was identified and from its culture 2 novel butenolides **1** and **2** were isolated and characterised. Compound **2** showed potent antibacterial activity while **1** was inactive.

The actinomycetes species was isolated from marine sediments and cultured in tryptic soy broth. After one week, the culture medium was filtered and passed through XAD beads, and the active fraction eluted with methanol. Size-exclusion chromatography on Sephadex LH 20, adsorption chromatography on silica and finally HPLC gave pure 1 and 2. Their structures were elucidated by MS, IR and mainly 500 MHz NMR (1D and 2D) spectroscopy.



<u>1</u>	X	=	H
<u>2</u>	X	=	OH