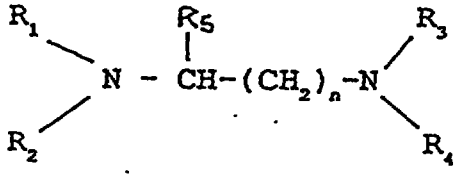
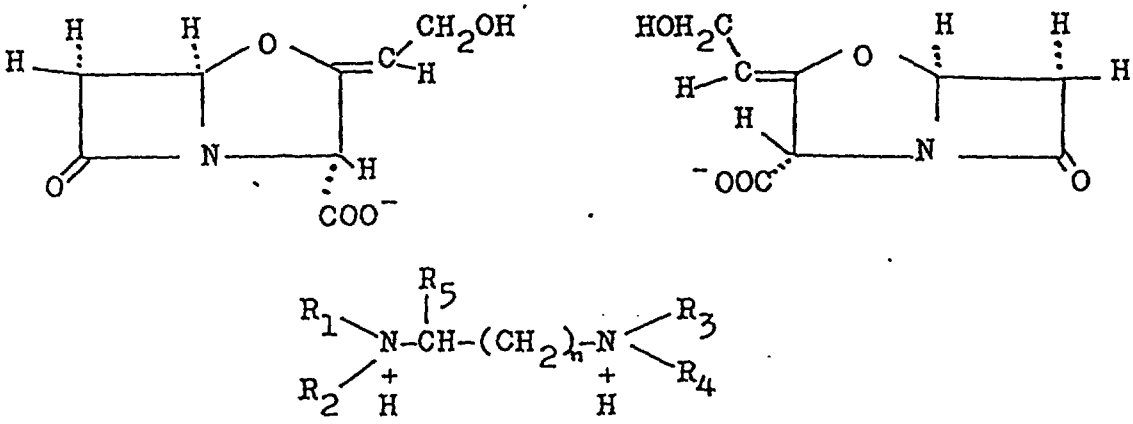
ABSTRACT

Novel alkylenediammonium diclavulanate derivatives, process for the preparation thereof and use thereof.

A novel process for the preparation of calvulanic acid and pharmaceutically acceptable salt thereof, such as potassium clavulanate, is described. According to the novel process, crude clavulanic acid, which is present in the form of an extract in an organic solvent, such as ethyl acetate, the extract having been obtained in known manner upon fermentation with a calvulanic acid producing microorganism, is reacted with substituted alkylenediamines of the formula II



wherein the substituents R_1, R_2, R_3, R_4 and R_5 and n have the meanings as defined in claim 1, e.g. with N,N'-diisopropylethylenediamine, to the novel alkylenediammonium diclavulanates of the formula I



This Sheet Has Been Replaced