

シンポジウムII-3

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Effect of Vehicles on Percutaneous Absorption

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Abstract

The percutaneous absorption and retention of salicylic acid and carbinoxamine from four oily vehicles, six hydrophilic vehicles and the influence of surface-active agents were studied by employing the abdominal skin of a male guinea-pig. The absorption followed first-order kinetics, with the exception of the initial period. The vehicle that had a strong affinity to the drug showed a poor drug-releasing effect, and poor absorption and retention of drugs by the skin were observed. The acceleration of absorption was observed by the addition in the critical micelle concentration of surface-active agents and below, but the inhibition of absorption was observed by the addition more than the critical micelle concentration of it.