

Drug Dev. Ind. Pharm., 26, 193-198 (2000).

Effect of Application Volume of Ethanol-Isopropyl Myristate Mixed Solvent System on Permeation of Zidovudine and Probenecid through Rat Skin

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Permeation of zidovudine and probenecid from ethanol-isopropyl myristate mixed system through rat skin was studied in finite system. In the cases of the systems containing 40% ethanol, the amount of drugs permeated decreased with the increase in volume of the system applied. On the other hand, in the systems containing 10% or 20% ethanol, the value showed a maximum when a specific volume of the sample was applied. Total volume as well as concentration of an enhancer should be precisely set in designing an efficient transdermal delivery system.