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Surveillance on the Quality of Marketed Betamethasone Esters Topical Preparations in Taiwan

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ABSTRACT

In order to survey the quality of the marketed topical corticosteroid (betamethasone esters) preparations in Taiwan area, a total of 90 samples of topical betamethasone dipropionate/valerate preparations were acquired from different counties and cities in Taiwan from January to June 2011. Samples were tested by a stability high-performance liquid chromatographic method that has been developed and validated for the analysis of betamethasone, betamethasone acetate, betamethasone benzoate, betamethasone dipropionate, betamethasone 17-valerate, betamethasone 21-valerate and betamethasone 21-aldehyde in topical dosage forms, in accordance with USP 34th ed. The results showed that 16 samples (17.8%) failed to meet the specification of assay.

Key words: topical corticosteroid preparations, betamethasone dipropionate, betamethasone valerate