

论文

消旋15-甲基前列腺素F_{2a}甲酯的分析

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摘要:

关键词:

ANALYSIS OF DL-15-METHYL PROSTAGLANDIN F_{2a} METHYL ESTER

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Abstract:

This paper deals with the quantitative determination of dl-15-methylprostaglandin F_{2a} methyl ester by thin layer chromatography and subsequent reaction with HCl-EtOH solution. The method has been applied to synthetic samples. The proposed procedure is as follows: Weigh accurately 1~3 mg of sample into a 2 ml bottle, add 2 ml of EtOH to dissolve Spot 10~30 μg of the prepared sample solution on a silica gel G plate, develop with a mixture of dichloromethane—acetone—toluene—cyclohexane(4: 6: 0.2: 3), locate the spots by iodine vapor and scrape into 10 ml glass stoppered test tubes Add accurately 5.0 ml of 1.5 N HCl-EtOH solution, warm the mixture at 30°C for 1.5 h, cool to room temperature, centrifuge and take the supernatant liquid for spectrophotometric determination at 239 nm against a reagent blank. The method is simple and rapid. The recovery of dl-15-methyl PGF_{2a} methyl ester is 98.3%.

Keywords: Spectrophotometric method dl-15-Methyl prostaglandin F_{2a} methyl ester

收稿日期 1983-06-01 修回日期 网络版发布日期

DOI:

基金项目:

通讯作者:

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