

论文

Δ^{16} -娠烯-3 β -乙酰氧基-11:20-二酮的极谱测定

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摘要:

关键词:

POLAROGRAPHIC DETERMINATION OF Δ^{16} -PREGNENE 3 β -ACETOXY-11:20-DIONE

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Abstract:

A simple and rapid method for the determination of Δ^{16} -pregnene-3 β -acetoxo — 11:20 — dione has been worked out. In an aqueous 40% iso-propanol solution of 0.1N NH₄Cl, this steroid gave a double polarographic wave which could be used for its determination. The current was measured at — 1.50 v. vs. S.C.E. and was proportional to the concentration in the range of 36 to 180/ μ g/ml. From the experimental results, the diffusion current constant *I* and the diffusion coefficient *D* have been calculated to be 1.30 and 1.15 $\times 10^{-6}$ cm²/sec. respectively. This method has been applied to the analysis of a sample; the result agreed with that obtained by the spectrophotometric method.

Keywords:

收稿日期 1962-02-19 修回日期 网络版发布日期

DOI:

基金项目:

通讯作者:

作者简介:

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