

论文

用油/水界面伏安法测定乙酰螺旋霉素

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摘要:

在0.1mol/LCdCl₂离子在界面传递的伏安波。其特性与常规半微分极谱波类似。△ψ随乙酰螺旋霉素的浓度增加向阴极方向移动。ep乙酰螺旋霉素的浓度呈线性相关,线性范围为29~437U/ml,检测限为7U/ml。重现性的相对标准偏差为3%左右,回收率为97~102%。与生物法相比,测定样品结果的相对误差在±1%以内。

关键词: 乙酰螺旋霉素 油/水界面 半微分伏安法

DETERMINATION OF ACETYLSPIRAMYCIN BY VOLTAMMETRY AT OIL / WATER INTERFACE

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Abstract:

The voltammetric behavior of acetylspiramycin at water-nitrobenzene interface have been studied by semi-differential cyclic voltammetry. The experimental results showed that acetvl-spiramycin facilitated the transfer of Cd²⁺ ions in the system of 0.1 mol/L CdCl₂(water)-0.005mol/L tetraphenylarsonium-tetraphenylborate(TPAsTPB)(nitrobenzene ,NB)and the characteristics of the voltammogram are the same as those of normal neopolarography. The peak current is directly proportional to the concentration of acetylspiramycin(NB)in the range of 29~437μ/ml and the relative standard deviation is about 2%. No significant difference was found as compared with the biological method.

Keywords: Semi-differential cyclic voltammetry Oil /water interface Acetylspiramycin

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