眼组织中缓释地塞米松药膜的HPLC/MS/MS测定方法研究

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摘要 眼部手术后,在眼组织的前房中植入缓释地塞米松药膜以防术后感染。本实验采用液液萃取、液固萃取的方法来提取生物样品中的地塞米松药物,经液相色谱/质谱/质谱进行检测,样品中药物浓度在 108—54μg/L范围内呈现良好的线性 (γ2 =0 .9995),最低检测浓度为 04 μg/L,平均回收率大于 77%。用这一方法可高灵敏度、高选择性地应用于临床相关药物的动力学研究

关键词 地塞米松 液相色谱/质谱 临床药物检测

分类号

Quantitative Analysis of Dexamethasone in Eyes by Liqui d Chromatography/MASS/MASS

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Abstract To prevent the inflammation in the anterior chamber, topical antibiotic and corticosterio ds(such as dexamethasone cefuroxime etc) are often used after the surgery. A method combining liquid chromatography (LC) with tandem mass spectrometry (MS/MS) was developed to quantify dexmethasone in aqueous humor and plasma. Before narrow-bore LC/MS/MS analysis, aqueous humor was performed by liquid -liquid extraction, and plasma was extracted by solid-phase extraction. Prednisone was used as an internal standard. The standard curve was composed of six points ranging from 1.08 to $54\mu g/l$ (average γ 2=0.9995). Limits of detection was $0.4\mu g/l$ Imprecision was $0.54\mu g/l$ Imprecision was second strength of the standard over $0.54\mu g/l$ Imprecision was second over $0.54\mu g/l$ Imprecision was

Key words dexmethansone,high performance liquid chromatography/tandem mass spectrometry, therapeutic drug monitoring

DOI

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