

论文

固相萃取GC-FID和GC-MS分析血浆中碱性药物

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摘要:

报道了用X-5固相萃取分离、毛细管GC-FID和GC-MS定性定量分析人血浆中34种碱性药物的方法。在优化的提取条件下,大部分药物的最低检测浓度在0.5~2.0μg·ml⁻¹之间,线性范围、定量精密度等满足临床中毒分析的要求。

关键词: 碱性药物 固相萃取 GC-FID GC-MS

SYSTEMATIC ANALYSIS OF BASIC DRUGS IN PLASMA USING X-5 SOLID-PHASE EXTRACTION GC-FID AND GC-MS

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Abstract:

A systematic determination method for 34 basic drugs in human plasma is described. Drugs were extracted from plasma at pH 10 using X-5 resin as adsorbent, then identified and quantitated by capillary GC-FID and GC-MS. The detection limits for most drugs are in the range of 0.5~2.0 μg·ml⁻¹. Precision and linearity of the method are satisfactory for clinical toxicological applications.

Keywords: Solid-phase extraction GC-FID GC-MS Basic drugs

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