

技术交流

HPLC-MS/MS联用技术定量测定人血浆中恩替卡韦

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摘要 建立HPLC-MS/MS联用方法定量测定人血浆中恩替卡韦浓度。以地西洋为内标, 甲醇为有机相, 甲醇-水为(5 mmol·L⁻¹碳酸氢铵)梯度洗脱流动相, Waters-Eterra MS-C₁₈(2.1×50 mm×5 μm)色谱柱为分析柱, 通过电喷雾离子源(ESI), 以正离子多反应监测(MRM)方式检测。用于定量分析的离子对分别为 *m/z* 278.2→152.1(恩替卡韦)和 *m/z* 285.0→193.0(地西洋, 内标)。恩替卡韦的线性范围为0.05~20 μg·L⁻¹, 定量下限为0.05 μg·L⁻¹ (n=6)。日内、日间精密度的RSD<15%, 平均回收率>75%。

关键词

[恩替卡韦](#) [高效液相色谱-串联质谱](#) [血浆药物浓度](#)

分类号

Quantitative Determination of Entecavir in Human Plasma by HPLC-MS/MS

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Abstract

Entecavir in human plasma was determined by high performance liquid coupled with-tandem mass spectrometry (HPLC-MS/MS). Diazepam was used as internal standard. Entecavir was separated on a Waters-Eterra MS-C₁₈ column(2.1×50 mm×5 μm). Electrospray ionization(ESI) source was applied, and multiple reaction monitoring(MRM) mode was operated in the positive mode with the monitor ions at *m/z* 278.2→152.1 for entecavir and *m/z* 285.0→193.0 for the internal standard, respectively. The linear calibration curve is obtained over the concentration range of 0.05—20 μg·L⁻¹. The limit of quantitation is 0.05 μg·L⁻¹(n=6). The inter and intra-day precision(RSD) is less than 15%. The average recoveries are above 75%.

Key words

[entecavir](#) [high performance liquid chromatography coupled with-tandem mass spectrometry](#) (HPLC-MS/MS) [plasma concentration](#)

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