

液相色谱-串联质谱法测定人全血中阿莫地喹的浓度

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LC- MS/MS methods for determination of amodiaquine in human whole blood

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摘要:

目的建立液相色谱-串联质谱(LC-MS/MS)法测定人全血中阿莫地喹的浓度。方法以稳定同位素化合物 10 -阿莫地喹为内标,全血经直接沉淀后稀释进样分析。以CAPCELL PAK C18 MGIII(100 mm×2.0 mm,5 μ m)为分析柱,0.2%甲酸的水溶液-0.2%甲酸的乙腈溶液为流动相,梯度洗脱。电喷雾离子源,正离子MRM扫描分析,阿莫地喹和内标离子对分别为m/z 358.2→285.2和m/z 368.2→285.2。结果阿莫地喹在1~100 μ g.L⁻¹范围内线性关系良好,定量下限为1 μ g.L⁻¹。批内、批间精密度RSD均小于6%,平均提取回收率在80.9%~87.7%范围内。结论本方法灵敏度高、专一性好、操作简单,可用于人全血中阿莫地喹的检测。

关键词: 阿莫地喹;色谱法,高压液相;串联质谱法;疟疾,恶性;抗疟药

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