



吴水仙, 王咏, 龚伟青. LC-MS测定罗库溴铵缩合物中环氧物的含量[J]. 中国现代应用药学, 2012, 29(6): 539-541

LC-MS测定罗库溴铵缩合物中环氧物的含量

Determination of Epoxy Compound in Rocuronium Bromide Condensation Compound by LC-MS

投稿时间: 2011-05-31 最后修改时间: 2012-03-06

DOI:

中文关键词: [罗库溴铵](#) [环氧物](#) [液质联用](#) [检测](#)

英文关键词: [rocuronium bromide](#) [epoxy compound](#) [LC-MS](#) [determination](#)

基金项目:

作者	单位	E-mail
吴水仙, 王咏, 龚伟青	浙江仙琚制药股份有限公司, 浙江 台州 317300	wsx@xjpharma.com

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中文摘要:

目的 采用液相色谱-四级杆质谱法(LC-MS)建立罗库溴铵缩合物中环氧物的检测方法。方法 色谱柱为Agilent Eclipses XDB-C₁₈ (150 mm×2.1 mm, 3 μm), 以甲醇-0.1%甲酸溶液为流动相进行梯度洗脱, 流速: 0.25 mL min⁻¹, 柱温: 30 °C, SIM离子采集方式, 采集离子分子量: 347.2, APCI离子源, 进样量: 5 μL。结果 环氧物的定量限为0.000 3%, 检测限为0.000 09%, 柱温、流速的微小变化不影响检测结果, 定量限浓度平均回收率为98.9%(n=3)。结论 本方法灵敏度高, 准确度高, 可用于罗库溴铵缩合物中环氧物限量检测。

英文摘要:

OBJECTIVE To establish a LC-MS method for the determination of epoxy compound in rocuronium bromide condensation compound. METHODS The analysis was carried out on an Agilent Eclipses XDB-C₁₈ column(150 mm×2.1 mm, 3 μm), using a gradient elution of methanol and 0.1% formic acid as the mobile phase at a flow rate of 0.25 mL·min⁻¹ at 30 °C, ion source was APCI, acquisition mode was SIM positive ionization, and selected ion was *m/z* 347.2 ([M+H]⁺). RESULTS The LOQ was 0.000 3%, the LOD was 0.000 09%; there was no influence on sample testing when small changes were made in the chromatographic conditions; the average recovery was 98.9% with RSD of 8.41%(n=3). CONCLUSION The method was sensitive, accurate, and suitable for the limit determination of epoxy compound in rocuronium bromide condensation compound.

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