

论文

螺旋霉素与乙酰螺旋霉素的高效液相色谱定量分析

孙成;于如霞;杨清华;盛曙光;赵霞芬

*本院1985届研究生南京;中国药科大学,南京;**江苏省药品检验所,南京

摘要:

为了分离螺旋霉素和乙酰螺旋霉素,本文较系统地研究了正、反相高效液相色谱法。用μ-Bondapak C₁₈柱,以甲醇-0.01 mol/L H₃PO₄ (45:55)为流动相,可将乙酰螺旋霉素各组分完全分离,以甲醇-0.01 mol/L H₃PO₄ (40:60)为流动相,可将螺旋霉素三组分较好地分离。用Zorbax CN柱,以甲醇—异丙醇—环己烷为流动相,可将螺旋霉素三组分满意地分离。

关键词: 螺旋霉素 乙酰螺旋霉素 高效液相色谱

QUANTITATIVE ANALYSES OF SPIRAMYCIN AND ACETYLSPIRAMYCIN BY HIGH PERFORMANCE LIQUID CHROMATOGRAPHY

SUN Cheng; YU Ru-Gu; YANG Qing-Hua; SHENG Shu-Guang~* and ZHAO Xia-Fen

Abstract:

Normal and reversed-phase chromatographic methods have been systematically investigated for separating spiramycin (SPM) and acetylsiramycin (Ac-SPM). The four components of Ac-SPM have been well separated by HPLC using μ-Bondapak C₁₈ column with a mobile phase composed of 0.01 mol/L H₃PO₄-CH₃OH (55:45). Two chromatographic systems were chosen to estimate the three components of SPM. In the first system 0.01 mol/L H₃PO₄-CH₃OH (60:40) eluent is used, and in the second system Zorbax CN column with methanol-isopropyl alcohol-cyclohexane (5:6:89) mobile phase is employed. It has been found that the contents of each component in the SPM made in China are different from those made in Japan, namely, in the Chinese SPM, SPM II and III are the major components, but in Japanese SPM, SPM I is the chief component. Moreover, in the Chinese Ac-SPM, diacetyl spiramycin II, III are dominant, while in the Japanese Ac-SPM, di-and monoacetyl spiramycin II are the major components.

Keywords: Acetylsiramycin High performance Liquid Chromatography Spiramycin

收稿日期 1986-05-07 修回日期 网络版发布日期

DOI:

基金项目:

通讯作者:

作者简介:

参考文献:

本刊中的类似文章

1. 孙成;于如霞;杨清华;盛曙光;赵霞芬.乙酰螺旋霉素组分的研究[J]. 药学报, 1987,22(6): 445-447
2. 孙成;于如霞;杨清华;盛曙光;赵霞芬.螺旋霉素与乙酰螺旋霉素的薄层色谱定量分析[J]. 药学报, 1987,22(7): 515-519
3. 栾新军;宋正华;箫珍.流动注射化学发光法测定人尿液中纳克水平乙酰螺旋霉素[J]. 药学报, 2004,39(1): 64-67
4. 范瑞溪;吴莹;顾雪芳;陈志芳.用油/水界面伏安法测定乙酰螺旋霉素[J]. 药学报, 1994,29(4): 296-300

扩展功能

本文信息

- ▶ Supporting info
- ▶ PDF (286KB)
- ▶ [HTML全文]
- ▶ 参考文献

服务与反馈

- ▶ 把本文推荐给朋友
- ▶ 加入我的书架
- ▶ 加入引用管理器
- ▶ 引用本文
- ▶ Email Alert
- ▶ 文章反馈
- ▶ 浏览反馈信息

本文关键词相关文章

- ▶ 螺旋霉素
- ▶ 乙酰螺旋霉素
- ▶ 高效液相色谱

本文作者相关文章

- ▶ 孙成
- ▶ 于如霞
- ▶ 杨清华
- ▶ 盛曙光
- ▶ 赵霞芬

PubMed

- ▶ Article by
- ▶ Article by
- ▶ Article by
- ▶ Article by
- ▶ Article by

- 冯闻铮; 亓平言; 周倜; 苗勇; 段训宝. 螺旋霉素在酸碱溶液中的降解动力学[J]. 药学学报, 1997,32(12): 934-937
- 秦德华; 刘若莹. 丙酰螺旋霉素II的分离与鉴别[J]. 药学学报, 1996,31(8): 597-601
- 王福民. 基于溶解氧乙酰螺旋霉素极谱平行催化氢波的研究[J]. 药学学报, 2005,40(12): 1135-1138

文章评论 (请注意: 本站实行文责自负, 请不要发表与学术无关的内容! 评论内容不代表本站观点.)

反馈人	<input type="text"/>	邮箱地址	<input type="text"/>
反馈标题	<input type="text"/>	验证码	<input type="text" value="0047"/>