



周娜. HPLC测定转化糖注射液中果糖、葡萄糖含量[J]. 中国现代应用药学, 2011, 28(13): 1357-1359

HPLC测定转化糖注射液中果糖、葡萄糖含量

Determination of Fructose and Glucose in Invert Sugar Injection by HPLC

投稿时间: 2010/11/22

DOI:

中文关键词: [转化糖注射液](#) [高效液相色谱法](#) [果糖](#) [葡萄糖](#) [含量测定](#)

英文关键词: [invert sugar injection](#) [HPLC](#) [fructose](#) [glucose](#) [content determination](#)

基金项目:

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中文摘要:

目的 建立转化糖注射液中果糖、葡萄糖的含量测定方法。**方法** 色谱柱为Hamilton HC-75H(305 mm×7.8 mm, 9 μm), 流动相为0.04 mol·L⁻¹磷酸, 流速为0.5 mL·min⁻¹, 检测波长为200 nm, 柱温为50 ℃。**结果** 果糖和葡萄糖的检测限分别为0.28, 0.52 μg; 线性范围分别为1.27~3.81 mg·mL⁻¹(*r*=0.999 4)、1.26~3.76 mg·mL⁻¹(*r*=0.999 2); 加样回收率分别为100.8%, 100.4%。**结论** 本法适用于转化糖注射液中果糖、葡萄糖的含量测定。

英文摘要:

OBJECTIVE To establish a method for the determination of fructose and glucose in invert sugar injection.
METHODS Hamilton HC-75H(305 mm×7.8 mm, 9 μm) was used. The mobile phase was 0.04 mol·L⁻¹ phosphoric acid at a flow rate of 0.5 mL·min⁻¹. The determination wavelength was 200 nm. The temperature of the column was 50 ℃. **RESULTS** To fructose and glucose, the limit of detection was 0.28 μg and 0.52 μg, the linear range was 1.27~3.81 mg·mL⁻¹(*r*=0.999 4) and 1.26~3.76 mg·mL⁻¹(*r*=0.999 2), the spiked recovery was 100.8% and 100.4%, respectively. **CONCLUSION** The method is suitable for the determination of fructose and glucose in invert sugar injection.

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