

论文

用高效液相色谱法测定吡罗昔康栓剂的含量

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摘要:

本文用HPLC和UV分析方法测定以半合成脂肪酸酯和聚乙二醇为基质的PIX栓剂中PIX含量。方法可靠、稳定、灵敏度高,t检验证明两方法无显著性差异(P>0.05),均适用于PIX栓剂的质量控制。HPLC方法分离良好,不仅适用于单方PIX栓剂含量测定,而且适用于复方PIX栓剂含量测定。色谱条件:以YWG-C<sub>(18)</sub>化学键合相为固定相(粒度为10μm),用254nmUV检测器,流动相为甲醇—0.2mol/L醋酸铵溶液(1:1V/V),流速为1ml/min,磺胺二甲嘧啶钠(SM<sub>2</sub>)作内标。

关键词: 吡罗昔康 栓剂 高效液相色谱 紫外分光光度法

HPLC DETERMINATION OF PIROXICAM CONTENTS IN PIROXICAM SUPPOSITORIES

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Abstract:

A HPLC method, in comparison with UV method, for determination of piroxicam (PIX) contents in suppositories made of semisynthetic fatty base (FBS) or PEG base (PEGS) is described. The method provides good reproducibility, favorable stability and yet high sensitivity. No significant differences were found between the HPLC and UV method by Student t test (P>0.05).According to the results obtained from each of 5 batches of FBS and PEGS, the mean contents of PIX in FBS and in PEGS being 99.7±0.9% and 100.3±0.7% by HPLC method, and 99.7±0.9% and 100.2±0.6% by UV method, it was concluded that the two methods were equally satisfactory for the determination of the contents of PIX in suppositories. Furthermore, the good separation characteristic makes the HPLC method described here not only applicable to suppository containing single remedy such as piroxicam, but also applicable to those containing compounded nonsteroidal anti-inflammatory drugs (NSADs) or other NSADs drug alone.The chromatography was carried out on a model YSB- II liquid chromatography fitted with a reversed-phase YWG-C<sub>(18)</sub> (10μm) column and equipped with a 254 nm UV detector. The mobile phase was a mixture of methanol—0.2 mol/L ammonium acetate (1:1 v/v) with a flow rate of 1 ml/min. Sodium sulfamethazin was used as an internal standard.

Keywords: Suppository High performance liquid chromatography Ultra-violet spectrophotometry Piroxicam

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