

论文  
溶剂萃取—流动注射分光光度法用于复方制剂中甲氧苄啶的分析

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摘要:

关键词: 甲氧苄啶 溶剂萃取—流动注射分析法

SOLVENT EXTRACTION-FLOW INJECTION ANALYSIS FOR DETERMINATION OF TRIMETHOPRIM IN COMPOUND PREPARATIONS

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Abstract:

Trimethoprim (TMP) in four pharmaceutical preparations (compound sulfamethoxazol tablets, compound tetracycline tablets, compound trimethoprim and sulfamethoxazol tablets, and compound berberine injection) is determined by solvent extraction- flow injection spectrophotometry. It can be extracted into chloroform directly, and the absorbance at a wavelength of 280 nm of the organic phase is measured after phase separation. The manifold comprises two streams. The sample is injected into a 0.2 mol/L NaOH carrier stream, and extracted with chloroform in a 200 cm coil (ID 0.7 mm) after a 50 cm reaction tube (ID 1.0 mm). Calibration graph is linear in the range of 25~ 150µg/ml. The average recovery is 101.4 % with a relative standard deviation of 1.1%. The proposed system permits the analysis of about 50 samples per hour. Precise results in agreement with those obtained with official methods are achieved.

Keywords: Solvent extraction-flow injection analysis Trimethoprim

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