

论文

氟胞嘧啶注射液稳定性预测

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摘要:

关键词: 氟胞嘧啶 氟脲嘧啶 稳定性

PREDICTION OF STABILITY OF FLUCYTOSINE INJECTIONS

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Abstract:

Kinetics of hydrolysis of flueytosine (5-FC) was discussed to predict the stability of flucytosine injections. Reverse phase ion-pair HPLC was used to determine 5-FC in flucytosine injections. The stability of the injections was examined with the classical isothermal method. The use of HPLC made it possible to determine the different contents of 5-FC in the presence of its degradation products. According to Arrhenius rule, the activation energy of 5-FC was 27.8 kcal. mol⁻¹. Since its main degradation product—fluorouracil is the factor in flucytosine clinical toxicity, shelf life was calculated in t_{0.999} and t_{0.998}. At 25°C it was about half a year (t_{0.999}) and 1.5 years (t_(0.998)). At 15~20°C it was about 1.5 years (t_{0.999}) and about 3 years (t_(0.998)).

Keywords: Fluorouracil Stability Flucytosine

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