

عنوان مقاله:

The cost-effective synthesis of antiviral drug Acyclovir in high yield and purity

محل انتشار:

چهارمین کنگره ملی شیمی و نانوشیمی از پژوهش تا فناوری (سال: 1400)

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خلاصه مقاله:

Due to the special importance of the synthesis of antiviral drugs, in the present study we described a high yield procedure for the industrially production of Acyclovir as a selective anti-herpes agent. In this study acyclovir was synthesized from di-Acetyl acyclovir through mild hydrolysis process. The structure of synthesized sample were confirmed by their NMR chemical shifts (^1H -NMR and ^{13}C -NMR) and high-performance liquid chromatography HPLC data. This procedure represented an acceptable yield about 70% (based on di-Acetyl acyclovir weight) with more than 98.7% purity of Acyclovir

کلمات کلیدی:

Acyclovir, di-Acetyl acyclovir, Antiviral, Hydrolysis

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