

## عنوان مقاله:

Evaluation of the Recombinant Escherichia coli BL21(DE3) Growth Kinetics in Glucose-limited Chemostat Culture

## محل انتشار:

پنجمین کنگره بین المللی مهندسی شیمی (سال: 1386)

تعداد صفحات اصل مقاله: 5

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## خلاصه مقاله:

The relationship between specific growth rate ( $\mu$ ) and steady-state glucose concentration was investigated for Escherichia coli BL21(DE3) in carbon-limited chemostat culture. Cells initially were cultivated in batch culture at high glucose concentrations and then feed was continuously added at specified flow rates to generate various dilution rates ( $0.1 \text{ h}^{-1} < D < 0.8 \text{ h}^{-1}$ ). Statistical evaluation of different kinetic models showed that calculated parameters have been in various ranges. Also comparison between evaluated parameters from chemostat and batch process showed that chemostat is the foremost method for obtaining growth kinetic's parameters.

## کلمات کلیدی:

Continuous culture; Kinetic models; Dilution rate, Chemostat, Recombinant, Escherichia coli

## لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/45991>

