

Modeling of batch fermentation kinetics for succinic acid production by *Mannheimia succiniciproducens*

전용재¹, 송효학¹, 김지만¹, 이상엽^{1,2,*}

¹Metabolic and Biomolecular Engineering National Research Laboratory, Department of Chemical & Biomolecular Engineering and BioProcess Engineering Research Center, KAIST; ²Department of BioSystems and Bioinformatics Research Center, KAIST
(leesy@kaist.ac.kr*)

Mannheimia succiniciproducens is a novel bacterium isolated from Korean bovine, which produces succinic acid as a major byproduct. Kinetic modeling of *Mannheimia succiniciproducens* during the batch fermentation was carried out. The substrate inhibition and end-product inhibitions are investigated through the kinetic model. Experimental validation of the model has shown that the model matches well in all the cases making it possible to elucidate the fermentation characteristics of *M. succiniciproducens* during efficient succinic acid production from glucose.

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