

Batch fermentation kinetics and modeling of
Mannheimia succiniciproducens

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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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