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for production of
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the model that best
fit the experimental
data was adopted
these models are
shown in table 1
table1 some
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model 1 logistic

model 2 gompertz
model 3 modified
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were prepared for
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phase models are the
most important
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growth rate of a

batch culture under the exponential phase is generally believed to follow the first order kinetic model i.e. the growth rate is proportional to the microbial mass in the system mathematically $\frac{dx}{dt} = \mu x$ where $\frac{dx}{dt}$ the bacterial growth rate $\text{mg l}^{-1} \text{s}^{-1}$

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soluble in water 6000
times less so than
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microbial processes
productivity is
frequently limited by
the transport'*

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microbial metabolic
pathways has expanded
significantly in the
past decade opening
new routes to
chemical products but
the development
challenges associated
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