

Shuler Kargi Bioprocess Engineering

Basic Concepts

Substrate inhibition in bioreactors Upper Saddle River Substrate inhibition in bioreactors occurs when the concentration of substrate (such as glucose, salts, or phenols) exceeds the optimal parameters and reduces the growth rate of the cells within the bioreactor. These cell growth models are analogous to equations that describe enzyme kinetics, although, unlike enzyme kinetics parameters, cell growth parameters are generally empirically estimated. Limited conditions can be modeled with the Monod equation; however, the Monod equation is no longer suitable in substrate inhibiting conditions. , 1947- (2002). A Monod deviation, such as the Haldane (Andrew) equation, is more suitable for substrate inhibiting conditions.). This is often confused with substrate limitation, which describes environments in which cell growth is limited due to of low substrate. Bioprocess engineering : basic concepts. (2nd ed. Shuler, Michael L. Kargi, Fikret. by extension, the yield of product 20fdd4ef49

Insertion sequence Shuler, Michael L. Bioprocess Engineering: Basic Concepts (2nd ed. and Kargi, Fikret (2002).), p. Upper Saddle River Insertion element (also known as an IS, an insertion sequence element, or an IS element) is a short DNA sequence that acts as a simple transposable element. Insertion sequences have two major characteristics: they are small relative to other transposable elements (generally around 700 to 2500 bp in length) and only code for proteins implicated in the transposition activity (they are thus different from other transposons, which also carry accessory genes such as antibiotic resistance genes). 220. ISBN 0-07-232041-9. McGraw-Hill 20fdd4ef49

MEOR is a multidisciplinary field incorporating, among others: geology, chemistry, microbiology, fluid mechanics, petroleum engineering, environmental engineering and chemical engineering. The microbial processes proceeding in MEOR can be classified according to the oil production problem in the field... 20fdd4ef49 A particular insertion sequence may be named according to the form IS_n, where n is a number (e.g. IS₁, IS₂, IS₃, IS₁₀, IS₅₀, IS₉₁₁, IS₂₆ etc.); this is not the only naming scheme used, however. 20fdd4ef49

Microbial enhanced oil recovery 8(1): p. Kargi, Bioprocess Engineering: Basic Concepts. 4-10 Shuler, M. L. International Series in the Physical and Chemical Engineering Sciences. As a tertiary oil extraction technology, MEOR enables the partial recovery of the commonly residual 2/3 of oil, effectively prolonging the operational lifespan of mature oil reservoirs. The primary objective of MEOR is to

improve the extraction of oil confined within porous media, while boosting economic benefits. 2001: Microbial Enhanced Oil Recovery (MEOR) is a biological-based technology involving the manipulation of functions or structures within microbial environments present in oil reservoirs. and F 20fdd4ef49

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