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“ Bioprocess Engineering: Basic Concepts ” Shuler and Kargi, Prentice Hall, 2002 David R. Shonnard Michigan Technological University 14 Sterilization of Gases aerobic fermentations require 0.1 to 1.0 (L air / (L liquid • min)) 50,000 L fermenter requires 7x106to 7x107 L air/day microorganism concentrations in air are about 1-10 ...

Chapter 10: Sterilization and Bioreactor Operation

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Chemical engineering - Wikipedia

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