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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 01 to 10 (L air / (L liquid • min)) → 50,000 L fermenter requires 7x106to 7x107 L air/day → microorganism concentrations in air are about 1-10

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