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Sterility: the absence
of detectable levels of
viable organisms in a
culture medium or in a
gas Reasons for
Sterilization 1.

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Methods and Kinetics:
10.4 Sterility: the
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Reasons for

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Economic penalty is
high for loss of sterility

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Supply to Bioreactor
DO Control involves a
combination of both DO
Control involves a

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combination of both --
called Cascade
Control Cascade Control

- increasing stir speed
- increasing air flow rate

• There is a maximum possible stir rate

- Air flow rate cannot be increased indefinitely

Air flow rate

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Upstream Processing

Feed stream: consists of cells and culture media; the feed stream is cooled and

microfiltered at a temp of 4 degrees Celsius

Fermentation:

biopharmaceutical fermentation involves the culture of yeast or microbial cells for the purposes of protein drug production; most fermentations are

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aerobic; this is

Chapter 10 Upstream Processing - Biomanufacturing

CHAPTER 10 STERILIZATION AND DISINFECTION .

Concerns about transmitting infectious agents, such as hepatitis virus (HBV) and human immunodeficiency virus (HIV), have caused the dental

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community to become more aware of the need to sterilize and disinfect instruments, materials, and other equipment to protect providers and patients.

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