

**PRACTICE** Complete the statements or answer the questions referring to large-scale fermentors. In answering the questions, avoid using the same expressions as those in the questions themselves.

A fermentor is *equipped with* an external cooling jacket for the purpose *of allowing steam or coolant to circulate*.

In some cases, internal coils *are provided* to *ensure* maintenance of proper temperature.

The mixture must *be supplied with* oxygen at all times, and therefore, most fermentors *are fitted with* two separate aeration systems.

What is the sparger intended to ensure? *It is designed to release air at high pressure.*

What is the aeration system designed to accomplish? *It is aimed at maintaining adequate supplies of oxygen.*

What is the purpose of baffles? *They are designed to break up clusters.*

What does the impeller ensure? *It facilitates the proper mixture of culture and air.*

What makes it possible to break up the clusters? *The baffles*

What would happen in the event of impeller failure or breakage? *The culture would not be properly aerated.*