SARTORIUS

Success Story

Improve Productivity and Reduce Risk with Biostat® RM

Case Profile

Company Type:
Mid-to-large Biopharma

Related Molecule:
Proteins, mAb

Process Steps:
Cell Culture and Seed Expansion

Generating an adequate number of cells for the inoculation of a production bioreactor is a time- and cost-intensive process. Using a typical batch seed train with common seed ratios of 1:12, it takes two steps, with five days each, to seed a final fed-batch culture. This presents several challenges, which a Sartorius customer was hoping to resolve. By introducing the Biostat® RM and the benefits of an intensified rocking motion bioreactor at 1 L scale, the customer reached a seed ratio of 1:120, saving four days of seed preparation time and enabling automatic transfers.

Customer Challenge

- Low-cell-density batch seed cultures required intense manual handling.
- Missing the ideal transfer point increased the risk of deviating from the specified design space.
- Total process time limited high-throughput batches.

Provided Solution

- Perfusion-enabled Biostat® RM led to high seed ratios, saving 4 days of culture time.
- BioPAT® ViaMass control provided automated and closed inoculum transfer

Before

- Two seed steps, each with a five-day culture time
- Manual sampling efforts to determine seed activities
- Risk of operator mishandling

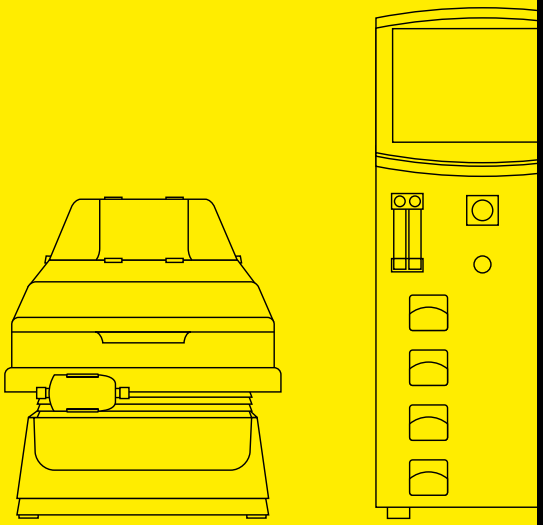
After

- Only one seed step, saving four days
- BioPAT® ViaMass identifies perfect transfer point
- Automatic transfer eliminates risk of operator mishandling

20% **decrease in process time**

10× higher **seed cell concentrations**

Reduced process risks **by automating manual steps**



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