cytiva

Your process intensification journey starts here

Explore the Process Intensifier app

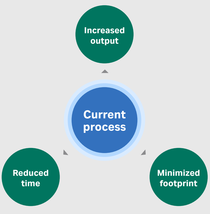
How do you know if an intensification approach will give you advantages over your current biomanufacturing process — and how do you choose the right one? Simply enter your process parameters and see the impact. Choose to optimize:

- **Upstream bioreactor operations**
  Will steady-state perfusion, concentrated fed-batch, or another option meet your needs?
- **Downstream capture (protein A step) operations**
  Explore the possibilities of high-capacity resins, Fibro rapid cycling, and continuous multicolumn chromatography.
- **Both as a connected operation**
  What happens when you combine upstream and downstream approaches?

Visit cytiva.com/processintensifier

Process Intensifier

Upstream | Downstream



Upstream

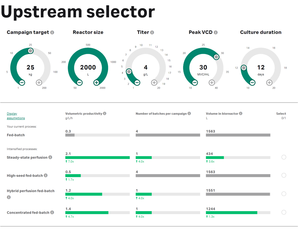
1 Select inputs

2 Overview and select

3 Summary

Export to Downstream

Upstream selector



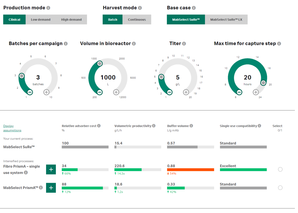
Downstream

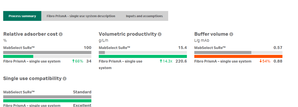
1 Select inputs

2 Overview and select

3 Summary

Downstream selector





Find the sweet spot for your facility*

Flexible multiproduct manufacturing

Upstream
Intensify with hybrid perfusion fed-batch

4× higher productivity[1]

75% fewer batches required[1]

Downstream
Intensify with Fibro PrismA

14× higher productivity[2]

66% lower adsorber cost[2]

High frequency, large volume batch manufacturing

Upstream
Intensify with high-seed fed-batch

70% higher productivity[1]

20% reduction in facility utilization[1]

Downstream
Intensify with MabSelect PrismA™

20% higher productivity[2]

53% lower adsorber cost[2]

High productivity, continuous manufacturing

Upstream
Intensify with steady-state perfusion

7× higher productivity[1]

80% reduction in bioreactor size[1]

Downstream
Intensify with MabSelect PrismA™ pcc

2.7× higher lifetime productivity[2,3]

50% lower buffer consumption[2]

*Outputs based on specific process conditions commonly used in biomanufacturing. [1]Compared to a fed batch process. [2]Compared to base case using MabSelect SuRe™. [3]Calculated over the estimated resin lifetime.

Visit cytiva.com/processintensifier to explore alternatives to intensify your processes

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CY24139-23Sep21-IG