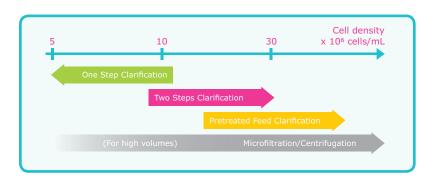
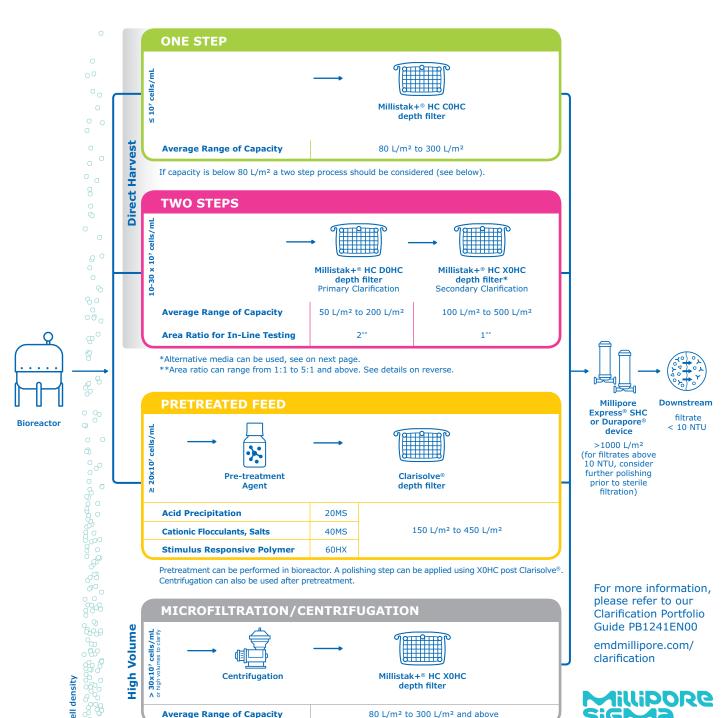
### Millipore 6

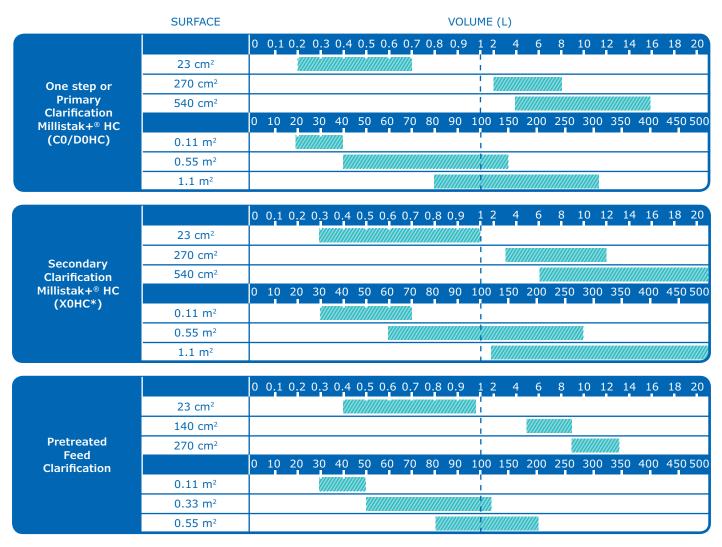
Filtration, Separation & Preparation

# Clarification of mammalian cell cultures by depth filtration





## Volumetric Loading Recommendations for Scale-up



#### Recommendations for selection and trials

- \* Millistak+® HC F0HC alternative media if capacity is low, Millistak+® HC A1HC or Millistak+® HC B1HC alternative media to test if product yield and purification levels after Millistak+® HC D0HC are low. Other parameters may influence the testing protocol and grades selected (yield, flow, cell culture viability, etc).
- \*\* Area ratio of 2:1 is suggested to start with if in-line testing is considered. For determining maximum filter capacities of each filter and an optimum filter area ratio, each filter can be tested separately by a constant flow (Pmax™) assay. Running a trial in-line with the selected filtration train and in process conditions is an important confirmation step. For a video tutorial on how to run a Pmax™ Constant Flow Test, please visit www.emdmillipore.com/process-development-tools. Depending on the feed, any area ratios can be implemented. Please reach out to your local technical contact for more information.

Sterilizing grade filter can be selected from a range of single or multi-layer PES or PVDF membrane (Millipore Express® and Durapore® devices).

#### Recommended test conditions

Flow from 100-150 LMH primary clarification (Millistak+® HC C0HC; Millistak+® HC D0HC)

Flow from 100-300 LMH for secondary clarification (Millistak+ $^{\circ}$  HC X0HC; Millistak+ $^{\circ}$  HC F0HC; Millistak+ $^{\circ}$  HC A1HC or Millistak+ $^{\circ}$  HC B1HC)

Maximum end point pressure 1 bar (15 psi) to 1.8 bar (22 psi).

#### To place an order or receive technical assistance

In the U.S. and Canada, call toll-free 1-800-645-5476

For other countries across Europe, please visit:

www.emdmillipore.com/offices

For Technical Service, please visit:

www.emdmillipore.com/techservice

