

# Single-Use Vessel Option

The Labfors 5 Cell: cell cultivation without the cleaning



- ▶ Optimised base unit
- ▶ Gentle stirring of the cells
- ▶ Optimised working volumes
- ▶ Compatibility down to the last detail
- ▶ Flexible gas mixing station
- ▶ Alternation between plastic and glass vessels
- ▶ Flexible and parallel cell culture



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# Compatible with your cell line

## ▶ Optimised base unit (1)

The base unit of the Labfors 5 Cell is ideally designed for the control of bio-processes in single-use culture vessels, such as the "Mobius™ CellReady 3L Bioreactor" supplied by Millipore.

## ▶ Gentle stirring of the cells

The standard motor of the Labfors 5 Cell is connected via an adapter to the stirrer on the single-use vessel. The magnetic drive is conducive to a smooth stirring and mixing action which is gentle on the cells.

## ▶ Optimised working volumes

The heater pad is specially adapted for single-use vessels, its shape having been optimised to maximise efficiency when working with both small and large volumes.

## ▶ Compatibility down to the last detail

The starter kit comes with ready-to-use hose fittings, reagent flasks and auto-clavable pumps so that the bioprocess can proceed quickly. It is also easy to connect the commonly used electrodes and other media to the Labfors 5 Cell.

## ▶ Flexible gas mixing station (2)

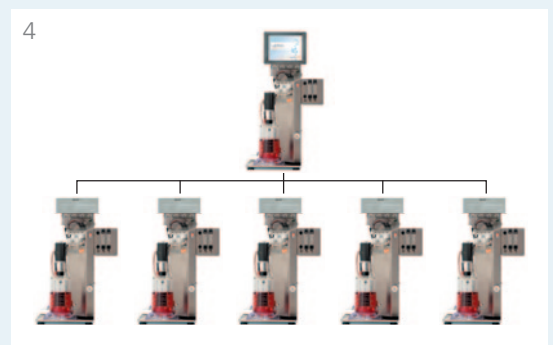
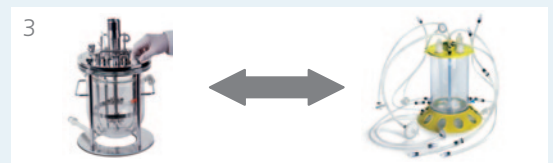
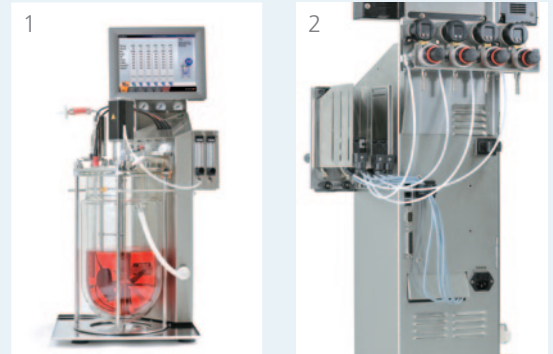
The mixture of gases for the Labfors 5 Cell can be adapted to the requirements of the culture process in any given case.

## ▶ Alternation between plastic and glass vessels (3)

The base unit of the Labfors 5 Cell can be used for both single-use vessels, such as the "Mobius™ CellReady 3L Bioreactor" made by Millipore, and reusable glass vessels. Water heating or electric heating systems can be used for temperature control, thus optimising the versatility of both types of bioreactor vessels.

## ▶ Flexible and parallel cell culture (4)

The hardware and software can be configured to suit your individual approach to cell culture. Moreover, parallel culture processes with up to six bioreactors can be controlled from one base unit. It is also possible to connect external analytical apparatus to each base unit via analogue interfaces.



### Default parameters of the Labfors 5 Cell:

- Stirrer speed
- Temperature
- pH
- pO<sub>2</sub>
- Mass flow
- Addition of reagents
- Mixture of gases

### Additional parameters:

- Integration of additional apparatus for bioprocess control or for the recording of additional online readings via
  - 4 analogue inputs
  - 6 analogue outputs
  - 2 digital outputs
- Control of culture medium addition by weight (assisted by Iris process control)

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