FC 203B/FC 204 Fraction Collectors

Simplify your Fermentation Sampling

Fermentation systems are used to provide an optimal growth environment for many different types of cell cultures. The ability afforded by fermentors to carefully control temperature, pH, and dissolved oxygen concentrations in particular makes them essential to efficient large scale growth and expression of fermentation products. The system can then be used to characterize the culture in a more quantitative and precise way.

Fermentation Sampling

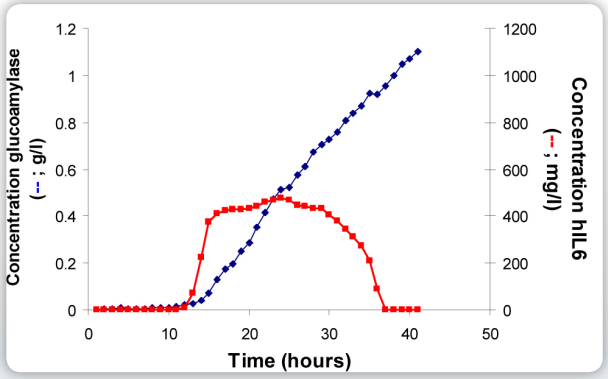
The Gilson FC203B is a compact fraction collector that can be easily located next to the fermentor and allow sampling during several days (night & day). It features cooled racks as an option to maintain the fractions collected at low temperature.

The control of the Gilson peristaltic pump (Minipuls 3) can be integrated to the Fraction Collector in order to transfer samples from the fermentor to the collection tubes.

The Minipuls 3 features a eight channels pump head that could be connected to a multiple collection head.

In case of risk of precipitation, the peristaltic pump can be used to return the sample located in the tubing back into the fermentor, or in a sterile environment, to rinse automatically the collection tubing between each cycle and collection.

Gilson offers a large selection of fraction collectors: FC204 for more capacity, GX for closed vials collection and/or quencher's addition.



Gilson FC203B connected to the fermenter for the monitoring of the performance of a protein producing fungal fermentation.

- Extended selection of collection tubes
- Thermostated racks
- Peristaltic pump control
- Improve sampling reproducibility
- Small footprint
- Easy to use and install
- Sampling during the night
- Long collection sequences

GILSON®

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Ideal Solutions for Sampling from Fermentors

Choose the compact FC 203B Fraction Collector for small capacity collection or the FC 204 for larger volumes. Collect fractions by time or drop. Both models accept a wide variety of collection vessels including tubes, vials and microplates.

- The fraction collector can use multi-column adapters for collecting up to 18 separate channels.
- Its compact size fits in most fume hoods.

Specifications

Dimensions (w x d x h) **FC 203B:** 32.4 x 29.2 x 26.7 cm **FC 204:** 47.9 x 46.4 x 33 cm	**Valve Switching Speed** 100 ms
Liquid Contact Material PTFE and 316 stainless steel	**Max Flow Rate** FC 203B: 20 mL/min FC 204: 20 or 200 mL/min
Valve Dead Volume **FC 203B/FC 204:** 64 µL internal volume; 3.5 µL dead volume from common port to normally closed port **FC 204:** 114 µL internal volume; 6 µL dead volume from common port to normally closed port	

Simple Solutions

- Collection only, set by time windows on the fraction collector up to 999 min.

The 3-way diverter valve prevents contamination of collected fractions (standard on FC 204 and optional on FC 203B).

Up to ten programmable time windows can be added for collecting only samples of interest, while discarding the column's void volume, areas of non-interest and equilibration volumes.

Contact closure inputs are available to remotely start, advance or stop fraction collection.

Stand-alone instruments are controlled with an incorporated keypad or through the Gilson TRILUTION® LC Software.

Advanced Solutions

- Addition of a time base PLC controller
- Control of the Minipuls 3 pump for collection and Backflush
- Increase the number of time windows (> 10) and collection times (> 16h).

More info ?
www.gilson.com

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