



SuperSpinner D 1000

Disposable bioreactor for efficient cell cultivation



Features & Benefits

- fully disposable
- ready-to-use
- efficient gassing
- high cell density
- easy sampling in place & feeding

Introduction

The SuperSpinner D 1000 is a fully disposable, pre-assembled and ready-to-use bioreactor for efficient lab scale cultivation of animal cells. Main feature is a membrane stirrer which allows controlled and gentle mixing, bubble free aeration and which avoids foam generation.

The simple set up, low component prices and operational costs as well as the resulting productivity compared to standard cell cultivation techniques provide a fast and economic lab scale production of, e.g.:

- recombinant proteins
- monoclonal antibodies
- biomass as seed culture

Product Description and Specifications

The SuperSpinner D 1000 consists of a cultivation flask and a membrane aeration system that also functions as a stirrer. A hollow-fiber membrane is wound around the stirrer bar which contains a magnetic core driven by a magnetic drive unit. A membrane gas pump feeds ambient air through a sterile filter into the flask.

If special gasses should be supplied the assembly can be placed in an incubator (CO₂-incubator for instance). Please find the detailed product description in Fig. 1.

Sampling

A clamp adaptor, which fits to common lab syringes ensures a safe & easy sampling in place during the cultivation.

Feeding

Feeding is possible at any time of the cultivation by using the spare port, which is covered with a Luer-Lock connector.

Flask compatible to standard rotors

Centrifugation of the suspension can be carried out in the cultivation flask. The format of the cultivation flask fits with a wide range of standard rotors. Each unit comes with an additional, sterile screw cap.

Seed-Train

The cultivation broth can be transferred directly from the SuperSpinner D 1000 into a larger bioreactor, e. g. by pumping. For this purpose a transfer tubing can be fixed to the Luer-Lock connector of the sample port.

Components & Material

Components	Material	Comments
1000 ml cultivation flask	Polycarbonate	Working volume 200 ml – 800 ml
Membrane system	Polypropylene	Pore size 0.2 µm
100 ml gas washing outlet	Polycarbonate	exhaust & functionality control
Midisart & Minisart	Polypropylene with PTFE	Pore size 0.2 µm
Luer-Lock Connector, Clamp	Polypropylene	Fixed to sample port and spare port
Tubings	Silicone	-

Product Description

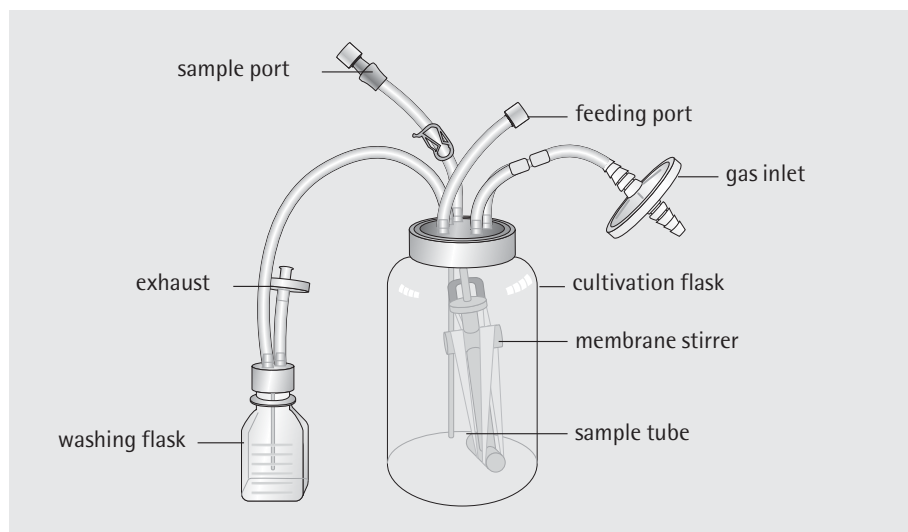


Fig. 1 Schematic description of the SuperSpinner D 1000.

Ordering Information

Product	Order-No.	Comments
SuperSpinner D 1000	DF-001LS-SSB---V	SuperSpinner D 1000, a fully disposable, membrane aerated spinner flask for efficient cultivation of animal cells. Main feature is a membrane stirrer which allows controlled mixing and aeration without foaming. A packing unit contains 2 SuperSpinner 1000 D.
Membrane pump	DZ-----AMP2	Membrane Pump as gassing unit. For use in the incubator cabinet (100% humidity at 37°C). 230 V.
	DZ-----AMP3	115 V version
Magnetic drive	DZ-----MM---2	Magnetic drive suitable for use in incubator cabinet (100% humidity at -10°C to 56°C). The Magnetic drive offers a speed range from 5-120 1/min. 230 V.
	DZ-----MM---3	115 V version

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W/sart-000 - G
Publication No.: SL-2051-e08041
Order No.: 85034-535-04