





Simplify your cell culture scale up

CELLdisc™ is a multilayer cell culture device covering a range of 250 cm² to 10,000 cm² growth area. The innovative ergonomic design provides a versatile system from research scale to industrial batches with a 40 % higher surface/volume ration then conventional multilayer systems. A centrally located ventilation channel assures uniform distribution of gas throughout the device whereas the wide opening port simplifies manual filling. The compact and robust cylindrical device is ideally suited for automation and upscaling of cell culture. For the connection of the individual layers a proprietary, particle, adhesive free assembly technique is used and the complete end product is USP Class VI certified. Additionally CELLdisc™ is guaranteed to be sterile (SAL 10⁻⁶), non-pyrogenic, non-cytotoxic and free of detectable DNase, RNase and human DNA.

Key Facts

-  Compact device suitable for basic research and industrial applications 40 % higher surface/volume ratio than conventional multilayer systems
-  Two surface treatments for optimal cell attachment
-  Optimal ventilation through central gas support channel
-  Easy accessibility due to wide opening port

Free of detectable
DNase, RNase,
human DNA
non-pyrogenic

non-
cytotoxic



Ordering information

Item No.	Layers	Surface treatment	Surface [cm ²]	Min. working volume [ml]	Max. working volume [ml]*	Ø [mm]	Cap colour	Sterility SAL 10 ⁻⁶	Quantity per bag/case
678101	1	TC	250	15	70	200	red	x	1 / 8
678104/ 678904	4	TC/ Adv. TC	1.000	60	280	200	red / blue	x	1 / 4
678108/ 678908	8	TC/ Adv. TC	2.000	120	560	200	red / blue	x	1 / 3
678112/ 678912	12	TC/ Adv. TC	3.000	180	840	200	red / blue	x	1 / 2
678116/ 678916	16	TC/ Adv. TC	4.000	240	1.120	200	red / blue	x	1 / 2
678124/ 678924	24	TC/ Adv. TC	6.000	360	1.680	200	red / blue	x	1 / 2
678140/ 678940	40	TC/ Adv. TC	10.000	600	2.800	200	red / blue	x	1 / 1

CELLdisc™ - Variants

CELLdisc™ with external filter

Secure gas exchange is assured by synthetic depth filter inserts in all standard CELLdisc™ versions with a bacterial filtration efficiency of 99,98% (ASTM F 2101, 21 CFR Parts 210,211 and 820). For specific applications external filters with an integrated filtration membrane and a defined pore size are required. For such usage Greiner Bio-one offers the CELLdisc™ external filter variants with USPVI certified venting filters, manufactured with reinforced hydrophobic PTFE membranes and a pore size of 0.2µm. The CELLdisc™ with external filter is defined by an -EXF suffix to the respective product number.

CELLdisc™ with closed filling caps

Working in a GMP surrounding requires maximal security on sterility and hence a closed system for fluid transfer which excludes any opening of a cell culture disposable during cell cultivation. For such applications Greiner Bio-One has developed the new CELLdisc™ versions with closed filling caps. These consist of flexible USPVI certified silicone tubes attached to the CELLdisc™ screw cap which can be safely connected to liquid reservoirs like media bags using the included MPC connector. **For each CELLdisc™ two versions are available:**

- closed filling cap with single tubing (-CF1 suffix to the product number)
- closed filling cap with double tubing with included dip-in tube (-CF2 suffix to the product number)

Key Facts

- Closed system for maximum safety and prevention of contamination
- MPC type connector for quick and safe connection / disconnection of tubing to / from medium reservoirs
- Constant flow rates preventing foaming of medium
- Choice of systems with single tubing for emptying via gravity or double-tubing for medium removal with a pump



The closed filling cap with single tubing contains a special cone-shaped design on the inside of the cap facilitating draining of tilted CELLdisc™ by gravity. To accelerate the emptying process and avoid any dead volume, the closed filling cap with double tubing and integrated dip-in tube can be used. That latter reaches down to the bottom of the CELLdisc™, allowing complete emptying with a pump.

Ordering information

Item No.	Description	Sterility SAL 10 ⁶
678xxx-EXF	CELLdisc™ with external filter, triple packed	x
678xxx-CF1	CELLdisc™ with closed filling cap with single tubing and external filter, triple packed	x
678xxx-CF2	CELLdisc™ with closed filling cap with double tubing and external filter, triple packed	x

CELLstage - NEW CELLdisc™ filling accessory

CELLstage is an accessory for the optimum positioning of CELLdisc™ during the filling process (30° and 20° to the horizontal plane for CD4-CD24 and CD40, respectively). Furthermore, the ideal location of the filling channel in the 105° position for right-handed users and the 255° position for left-handed individuals is indicated by a slit on the respective side of the device. Common sterilization methods like autoclaving, 70% ethanol, and UV radiation can be used to sterilize the CELLstage. It may remain under the laminar airflow cabinet as long as required. If other sterilization procedures are required, the material resistance of stainless steel must be assessed.

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Key Facts

- Available for CELLdisc™ 4-24 layers and
- CELLdisc™ 40 layers
- Creates the optimum angle and position for
- CELLdisc™ filling
- Stainless steel allows multiple sterilization methods
- Suitable for left- and right handed users

CELLdisc™ - Accessories



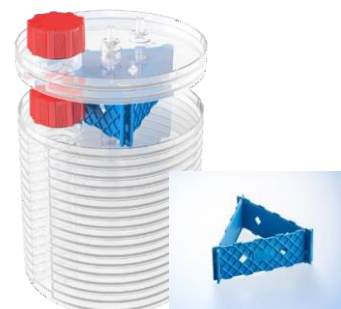
NEW

*For more information please see Instruction for use No. F073254 n

CELLlevator - Easy and secured CELLdisc™ stacking

The CELLlevator is a CELLdisc™ accessory facilitating easy and secured stacking of two CELLdisc™ devices to enable best possible utilization of a given space (e.g. in an incubator). The CELLlevator consists of three identical blue polypropylene segments which assembled form a uniform triangle. Centering ribs at the side of the segments recession guide the insertion assuring a simple

and faultless assembly process. Thereafter the stacking device is positioned within the circumferential ring of the top plate of the CELLdisc™. Another CELLdisc™ can now be positioned on top of the CELLlevator.



CELLring – Levelling ring



CELLring assures an exact horizontal position of CELLdisc™ compensating surface irregularities, e.g. of a working bench or an incubator. Thus, cells and medium distribute evenly in every single layer of your CELLdisc™.

Key Facts

Ensures exact planar positioning of CELLdisc™

Guarantees consistent distribution of cells and media in every single layer

CELLhandle Transportation gripper



CELLhandle facilitates secure and easy transportation of particularly large-sized CELLdisc™ formats as well as convenient emptying of these.

Key Facts

Gripping device for easy lifting and emptying of large sized CELLdisc™

Enables single-hand usage

Ordering information

Item No.	Description	Quantity per bag	Quantity per case
878072	CELLstage (for CELLdisc™ with 4-24 layers)	1	1
878073	CELLstage (for CELLdisc™ with 40 layers)	1	1
878071	CELLlevator - Stacking device for CELLdisc™	1	9
878075	CELLring - Levelling ring compensating surface irregularities	1	3
878074	CELLhandle - Gripper for secure and easy transportation	1	1