



Cell Culture Flask & Aseptic Transfer Cap



Cell Culture Flask

Duoning cell culture flasks are manufactured with excellent and rigorous process, ensures the smooth body of the flasks, and reduces the risk of foaming during culture.

Duoning cell culture flasks have multiple uses, including cultivate mammalian cells (CHO cells, HEK 293 cells) for recombinant protein production. Excellent product design can greatly improve the oxygen transfer efficiency inside the flask itself, thereby providing better growth environment for cells.

Duoning cell culture flasks can be used with other cell culture equipment and consumables produced by Duoning, including carbon dioxide incubators with shakers, bioreactors.

Product Benefits

- ⦿ Meet regulations of USP6
- ⦿ Blow-injection molding, avoiding surface scars
- ⦿ Excellent chemical resistance, can withstand a variety of chemicals
- ⦿ Good transparency, clear scale, easy to observe
- ⦿ Flask neck sizes conforms to the international SBS standard, suitable for quick connection of bioreactors



2.8L&5L Cell Culture Flask Features

- ⦿ Equipped with a 0.2 μ m air-permeable cap, which can better mix the cells and the culture media, increase the air permeability, and enable the cells to grow to higher density.
- ⦿ The handle design of the 5L culture flask is easy to pick up, avoiding the risk of contamination caused by the customer's hand being too close to the flask neck during use.
- ⦿ The bottom of the 2.8L culture bottle is optimized, which saves space, greatly improves the utilization rate of the incubator, and reduces customer R&D and production costs.
- ⦿ Duoning cell culture flask adopts extrusion blowing technology, the flask body is smooth, which reduces the risk of cell adhesion and media foaming.
- ⦿ Duoning cell culture flasks are sterilized by cobalt 60 radiation, and the aseptic independent packaging is convenient for use.

Aseptic Transfer Cap

Duoning aseptic transfer caps are used for aseptic transfer during the expansion of suspension cells, effectively reducing the risk of contamination. The aseptic transfer cap consists of two ports: The vent port is connected to a 0.2 μ m air filter; The inner end of the liquid delivery port is connected to a chemically resistant hard tube immersed in the bottom part of the flask, and the outer side is connected to a 1/8" -1/4" thermoplastic tube.

Product Benefits

- ⦿ Compatible with Duoning 2.8 L & 5 L culture flasks;
- ⦿ Double-layer independent aseptic packaging;
- ⦿ Disposable, ready-to-use.



Ordering Information

Cell Culture Flask

Catalog No.	Volume	Material	Height	Neck Diameter	Bottom diameter	Sterilization	Pcs/pack	Pcs/box
DNFL02010125	125ml	PETG	113.5mm	34mm	66mm	Yes	1	24
DNFL02010250	250ml		138.2mm	34mm	83mm	Yes	1	12
DNFL02010500	500ml		177.5mm	39mm	101mm	Yes	1	12
DNFL02011000	1000ml		211.5mm	39mm	127mm	Yes	1	6
DNFL02032800	2800ml	K-Resin	243.3mm	96.2mm	164mm	Yes	1	6
03-5000	5000ml,4pcs		253.2mm	96.2mm	228mm	Yes	1	4
DNFL02020125	125ml	PC	113.5mm	34mm	66mm	Yes	1	24
DNFL02020250	250ml		138.2mm	34mm	83mm	Yes	1	12
DNFL02020500	500ml		177.5mm	39mm	101mm	Yes	1	12
DNFL02021000	1000ml		211.5mm	39mm	127mm	Yes	1	6

Aseptic Transfer Cap

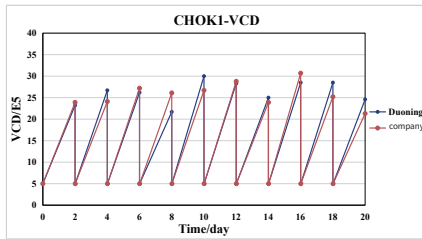
Catalog No.						Sterilization	Pcs/pack	Pcs/box
DNTC020106P	/	/	/	/	/	Yes	1	10

Culture Parameter Recommendation

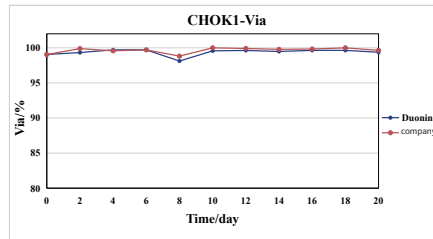
Catalog No.	Size	Recommended maximum capacity (ml)	maximum speed (rpm)	Shaker track specification (mm)
CHO-S	125ml	30	130	25
	250ml	60	130	25
	500ml	150	130	25
	1000ml	350	130	25
	2800ml	800	90	25
	5000ml	2500	90	25
HEK	125ml	30	130	15
SF9	125ml	30	130	15
	500ml	200	150	31.75
	1000ml	300	120-150	31.75
	2800ml	1000	100-150	31.75
	5000ml	3500	90-100	31.75

Performance Data

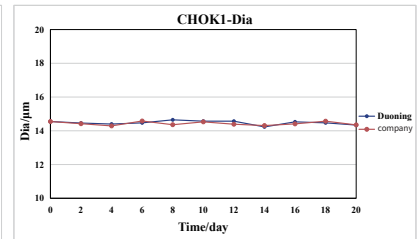
CHOK1 cell growth results after 10 passages



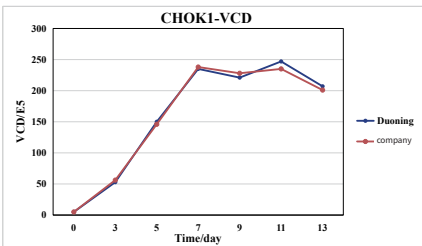
VCD



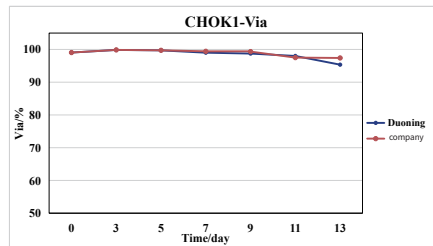
Cell Viability



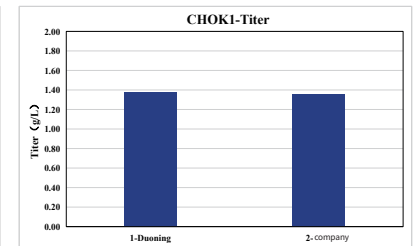
Cell Diameter



VCD



Cell Viability



Antibody titer

Size	Optimal working volume	Effective volume	Optimal speed	Suggested speed range
125ml	25-30ml	8-35ml	110	90-110
250ml	60ml	36-100ml	110	90-110
500ml	100ml	50-200ml	110	90-110
1000ml	200ml	101-400ml	110	90-110
2.8L	1.4L	0.9-1.6L	110	90-110
5L	2L	1.7-3.2L	90	90-110

Note: Duoning culture flask specification only

Fig. Cell culture flask specification data



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