

**CultureGard® HF Perfusion Filters** Hollow Fiber Sterilizing Grade Filter for Cell Culture Perfusion

- A Large Surface Area for Fast Flow rates under Lower Pressures •
- A Minimal Risk of Membrane Clogging or Rupture
- A Minimum Hold-up Volume •
- PP vent fiber prevents air lock •

CultureGard autoclavable filters are made with 0,2 µm MWCO DynaFibre® membrane that permits the flow of culture medium while preventing the introduction of foreign microbials. These specialized filters have a large surface area for faster flow rates under lower pressures. Lower pressure during filtration reduces the risk of the membrane clogging or rupturing. The DynaFibre Membrane is hydrophilic so there is minimum hold-up volume. The combination of faster flow rates and minimum holdup volume makes CultureGards the ideal filters for adding even the most viscous nutrients, like 6M glucose or media with serum, to hollow fiber or stirred tank bioreactors. Nutrients can be easily added to a culture without a syringe and septum.

## Sterile Protection for Culture Feeding & Harvesting

Two CultureGard Filters used in series provide the ultimate sterile barrier against the risk of culture contamination possible during media feeding and culture perfusion. Prior to autoclaving the bioreactor, connect the pair of CultureGards to the media feed line. Should the first filter become plugged, simply remove it and re-attach the media supply directly to the second filter already in-line, maintaining the sterile barrier to the culture.

## **Specifications:**

Pore Rating: Membrane Inlet/Outlet Conn.:

0,2 µm SA: 70 cm2 Female Luer-Lok® (FLL) / Male Luer-Lok (MLL) 12/pkg, non-sterile

Packaging:



### To order Price of CultureGuard filters

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Product No.	Description	Pore Rating	Surface Area	Volume	IN / OUT Conn.	IRR	Fill Bell	Qty/Pkg
CU2M-205-12N	CultureGard	0,2 μm	70 cm2	2 - 50 L	FLL/MLL	NO	NO	12
CultureGard samples are available click here to request one								

**Components:** HF Membrane:

Potting Material: Housing:

1/8" HB Adapters:

HF Vent:

End-caps:

Gard samples are available click here to request one

Mixed cellulose ester

Polypropylene

Clear polysulfone

Pigmented polysulfone

Polypropylene (4 MLL & 4 FLL)

Polyurethane

CultureGard" Filter D. De ents in series

peristaltic

d Source

# MediaKap® cell culture media Filters Sterilize 5L of DMEM with 10% FCS in 20minutes or less!

Sterilize 5 liters of DMEM with 10% fetal bovine serum in 20 minutes or less !

Hollow fiber membranes work in exactly the same fashion as the flat sheet membrane, but :

- filter takes less space (a)
- filter do no collapse as flat filters
- flow through is higher (c)
- do not need to vent (b)
- no vent contamination (b)

The MediaKap® series contain standard fiber and are designed for media without serum and aqueous buffer solutions. The MediaKap® Plus series contain a high performance fiber which have significantly greater throughput for use of media with serum and partially soluble nutrients (i.e. soy broth, BSA, yeast extract).



(a) Hollow fiber membranes can pack more surface area into a given module than the flat sheet manufactures. As an example, one of the more popular small volume media filters on the market has a flat sheet membrane wrapped into a cylinder and contains 10 cm2 of surface area. The MediaKap® 10 has a surface area of 100 cm2. Because the hollow fiber does not require a downstream support structure,

hollow fiber membranes have higher rates than flat sheet membranes.

Filtration takes place through the wall of the fiber and the filtrate is passed through the lumen (inside diameter) of the fiber.

(b) The fiber bundle in each MediaKap contains one hydrophobic fiber which acts as a downstream vent. When air gets into the line, it passes harmlessly downstream instead of filling the housing and blocking flow. Because it's automatic, you won't have to remember to manually vent the filter as is necessary in flat disc filters. Also the vent fiber is 0.2  $\mu$ m so the air passing downstream is sterile and will not contaminate the downstream filtrate.

(c) Typically, the MediaKap® 5 will filter 5 liters of DMEM in about 15 minutes. The MediaKap® 5 Plus will filter 5 liters of DMEM with 10% fetal bovine serum in about 20 minutes.

MediaKap® Hollow Fiber Filters (for media without serum and aqueous buffer solutions)		Specifications			MediaKap® Hollow Fiber Filters (for media with serum and partially soluble nutrients)			
Description	Part Number	Surface Area	Filling Bell	Filters/pkg	Description	Part Number	Water Flow	DMEM w/serum
MediaKap® - 2	238130	$35 \text{ cm}^2$	Yes	12	MediaKap® - 2 Plus	307450	400ml/min	0.2-2L
MediaKap® - 2	237580	$35 \text{ cm}^2$	No	18	MediaKap® - 2 Plus	307050		
MediaKap® - 5	292710	$70 \text{ cm}^2$	Yes	12	MediaKap® - 5 Plus	308720	750ml/min	2-5L
MediaKap® - 5	289970	$70 \text{ cm}^2$	No	18	MediaKap® - 5 Plus	308640		
MediaKap® - 10	295220	$100 \text{ cm}^2$	Yes	12	MediaKap® - 10 Plus	G98750	1000ml/min	5-10L
MediaKap® - 10	294680	$100 \text{ cm}^2$	No	18	MediaKap® - 25	298550		
MediaKap® - 25	298550	$144 \text{ cm}^2$	Yes	6	MediaKap® - 25 Plus	312030	1400ml/min	10-25L
MediaKap® - 50	298820	$185 \text{ cm}^2$	Yes	3	MediaKap® - 50 Plus	312150	2000ml/min	25-50L

Prices of Mediakap filters

## **Related products & documents**

 Other filters:
 DynaGard filters and MiniKap filters
 for dead-end filtration

 Krosflo
 ® Tangential filtration modules and systems

 Selection Guide for Dialysis Products

 Products HighLights Overview

 BioSciences innovation catalogue

**Minterchim** 

Information inquire							
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