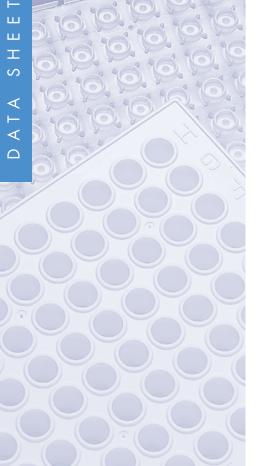
MILLIPORE



- High throughput 96-well processing
- Automation compatible
- Reliable well-to-well performance



MultiScreen™ Filter Plate with Ultracel®-10 Membrane

Automation-compatible 96-well ultrafiltration plate for use in concentration and purification of biological solutions

High Throughput UF Technology

MultiScreen filter plate with Ultracel-10 membrane provides a new method for high throughput sample prep. The ultrafiltration-based filter plate is designed for automation-compatible sample purification, concentration and desalting of biological solutions, as well as protein removal from samples prior to instrument analysis.

The 96-well MultiScreen filter plate incorporates Ultracel-10 10,000 nominal molecular weight limit regenerated cellulose ultrafiltration membrane for low-binding, high recovery results. It is designed for use with centrifugation and is compatible with standard microtiter plates, instrumentation, and liquid handling equipment.

Reliable

MultiScreen filter plate with Ultracel-10 membrane is designed for low protein binding and high protein retention. The assay-grade plates meet stringent manufacturing release specifications and are lot tested for protein retention for >95% retention of cytochrome c (12,500 Daltons). They also offer high well-to-well uniformity on performance.

Versatile Operation

MultiScreen filter plate with Ultracel-10 membrane allows for processing and collection of sample volumes from 50 to 500 µL. They are compatible with a range of standard receiver 96-well microtiter plates including 300 µL, 700 µL deep well and 150 µL conical well.

MultiScreen with Ultracel-10 membrane is ideal for applications including protein concentration and desalting prior to validation or screening assays. They are able to remove large molecular weight proteins prior to instrument analysis.

Performance

Typical Flow Rates

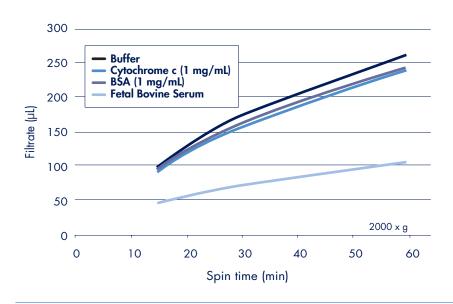


Figure 1. This graph shows the effect of spin time on ultrafiltrate volume for different protein solutes with an initial sample volume of 300 μ L and a force of 2000 \times g. Ultrafiltrate volumes are lower for samples with higher protein concentrations such as serums.

Protein Rejection Characteristics

Membrane NMWL	Protein Solute	Typical Retention %
10,000	Cytochrome c 12,500 Daltons (1 mg/mL)	95%
	BSA 67,000 Daltons (1 mg/mL)	99%

Table 1. Performance of MultiScreen filter plate with Ultracel-10 membrane using a centrifuge at 2000 x g. With a 300 μ L starting volume, spin times were 30 minutes to concentrate protein solute to 130 μ L.

Specifications		
Filter Plate Well Capacity	500 μL	
Working Sample Volume Capacity	Limited to receiver plate. Compatible with standard 96-well microtiter plates (300 µL, 700 µL deep well, and 150 µL conical u-bottom).*	
Centrifugal Speed Maximum	3000 x g	
Filter Plate Dimensions		
Length:	127.6 mm	
Width	85.2 mm	
Depth:	14.6 mm	
Materials of Construction		
Filter plate:	Polyolefin	
Membrane:	10,000 NMWL Regenerated cellulose	

^{*}Recommended receiver plates sold separately. See "Required Equipment" (below) for details.

Ordering Information

Pack includes MultiScreen filter plates with Ultracel-10 regenerated cellulose membrane and microtiter plate storage lids. Receiver microtiter plate must be purchased separately.

Description	Qty/pk	Catalogue No.	
MultiScreen Ultracel-10 Filter Plate	2	MAUF 010 02	
	10	MAUF 010 10	

Required Equipment (not included)

- Centrifuge capable of a minimum of 2000 x g-force with a swinging bucket rotor and 96-well plate carrier
- Pipetters or robotic liquid handlers for transferring 10 μL, 25 μL and 300 μL volumes
- 96-well microtiter plate receiver tray
 - Recommended receiver plates (contact Millipore Technical Service for more information)
 - Greiner 150 μ L conical well plates for use with filtrate volumes <30 μ L: Cat. No. 652270
 - Greiner 300 μL plate for sample volumes up to 300 μL: Cat. No. 651201
 - Greiner 700 μL deep well plate for use with sample volumes up to 500 μL : Cat. No. 786201

To Place an Order or Receive Technical Assistance

For additional information call your nearest Millipore office:
In the U.S. and Canada, call toll-free 1-800-MILLIPORE (1-800-645-5476)
In the U.S., Canada and Puerto Rico, fax orders to 1-800-MILLIFX

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