MILLIPORE



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

DATA SHEET

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.

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Performance

Typical Flow Rates

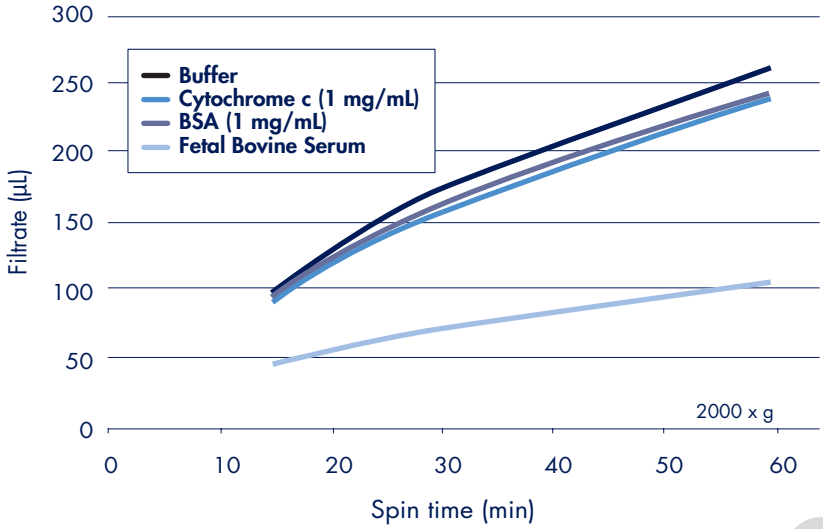


Figure 1. *This graph shows the effect of spin time on ultrafiltrate volume for different protein solutes with an initial sample volume of 300 µL and a force of 2000 x g. Ultrafiltrate volumes are lower for samples with higher protein concentrations such as serums.*

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 µL starting volume, spin times were 30 minutes to concentrate protein solute to 130 µL.*

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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 µL conical well plates for use with filtrate volumes <30 µL: 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

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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 (1-800-645-5439)**
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