Amicon® Ultra-0.5 Filter

Sample concentration so efficient, one drop will be enough to obtain all your downstream results

Your Challenge
Maximize the consistent recovery of small volumes and minimize user impact during sample recovery.

Our Solution
After concentrating your small volume sample in the Amicon Ultra-0.5 filter, turn the unit upside down and spin out your sample for consistent recovery without pipetting errors.

Give yourself a head start in the race to validate and publish your results by choosing Amicon Ultra-0.5 filters to concentrate your valuable protein. When the quality of downstream results matter, make sure you start with the best centrifugal filter.

- Concentrate 500 μL down to 15 μL
- Low-binding membrane delivers > 90% recoveries
- Engineered dead stop avoids spinning your sample to dryness
- Achieve concentration, desalting or buffer exchanges in as little as 10 minutes
- Reverse spin capability eliminates pipetting errors and maximizes recovery

Fill Spin Recover Collect

EMD Millipore is a division of Merck KGaA, Darmstadt, Germany
Fast protein concentration without compromising recovery

Percent recovery and final retentate volume of the Amicon Ultra-0.5 filter, the Microcon® filter, and three competitors’ centrifugal filters (10,000 MWCO) were evaluated. Multiple units of each type were filled with cytochrome c solution and spun according to the manufacturer’s instructions.

ORDERING INFORMATION

Amicon Ultra Centrifugal Filters

<table>
<thead>
<tr>
<th>Product</th>
<th>Amicon Ultra-5.0</th>
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</thead>
<tbody>
<tr>
<td>Maximum initial sample volume (mL)</td>
<td>0.5</td>
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<tr>
<td>Final concentrate (retenate) volume (µL)</td>
<td>15 - 20</td>
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</tbody>
</table>

3,000 MWCO
- 24/pk UFC500324
- 96/pk UFC500396

10,000 MWCO
- 24/pk UFC500324
- 96/pk UFC501096

Also available

The Amicon Ultra-4 and Amicon Ultra-15 filter units

Speed up the concentration of large volumes while achieving high (75- to 80-fold) concentration factors with the vertical membrane inside Amicon Ultra-4 and Amicon Ultra-15 filter units. You minimize concentration polarization for ultra-fast spin times – usually in 10 minutes.

Compared to competitors’ centrifugal filters, only the Amicon Ultra-0.5 filter and the classic Microcon filter were able to consistently concentrate the cytochrome c sample by 10-20 fold with excellent recovery (80-100%), even with a dilute (0.025 mg/mL) solution. The Amicon Ultra-0.5 filter allows equal to or better sample concentration than the Microcon filter, but works in half the spin time.