

Amicon Ultra-15 10K Centrifugal Filter

Aim

Centrifuge away particles smaller than 10 kDa or perform a buffer exchange.

Procedure

Rinsing

The ultrafiltration membranes in *Amicon Ultra-15* contain trace amounts of glycerine. If this material interferes with analysis, rinse the device before use.

1. First rinse with 15 ml Milli-Q, centrifuge at 4000 x g for 15 min.
2. Rinsing with 15 ml NaOH (0.1 M), centrifuge at 4000 x g for 15 min.
3. Lastly, rinse with 15 ml desired buffer for the product to be filtered in. Centrifuge at 4000 x g for 15 min.

Filtration

1. The sample is added onto the filter, and is spun down for 10 minutes at 4000 x g (NOTE: The solution is never allowed to reach beneath the 500 ul mark above the filter).
2. Afterwards Tris-buffer is added and the the sample is spun down again for 10 minutes at 4000 x g (this step is repeated twice).
3. Lastly, pipette up and down inside to column to remove residual protein from the filter. Afterwards extract your sample 500 ul at a time.

Note!

Do not allow the membrane in Amicon Ultra filter devices to dry out once wet. If you are not using the device immediately after rinsing, leave fluid on the membrane until the device is used.

Sources

Protocol revised from Amicon user's guide for the product.

https://www.merckmillipore.com/SE/en/product/Amicon-Ultra-15-Centrifugal-Filter-Units,MM_NF-C7715?ReferrerURL=https%3A%2F%2Fwww.google.se%2F&bd=1#anchor_UG