

Concentration, Desalting, and Buffer Exchange with Amicon® Ultra Centrifugal Filters from Merck

1. Using the **Amicon® Ultra Online Selector Tool**, select the Amicon® Ultra device with the appropriate nominal molecular weight limit (NMWL) and volume capacity for your application.
2. (Optional) Pre-rinse device with buffer of choice.
3. Add the sample to the reservoir of the centrifugal device.
4. If the sample is smaller than the maximum volume, it can be diluted up to the maximum volume before the first centrifugation step. This will help increase salt removal.
5. Centrifuge at the specified g-force for the amount of time recommended in the user guide for the selected device.
6. Remove the initial filtrate from the filtrate tube and set aside.
7. Add enough buffer (for buffer exchange) or water (for desalting) to the device to bring the sample volume up to 4, 15, 2, or 0.5 mL, depending on the volume capacity of the device.
8. Centrifuge again.
9. Set aside the filtrate.
10. Recover the concentrated, desalted, or buffer-exchanged sample.

NOTE: Both filtrates should be retained until the concentrated sample has been analyzed.

From: iGEM Bielefeld-CeBiTec