

# Desalting samples

For different devices or test procedures, the protein samples must be desalted before use. Some of these measurement procedures would be matrix-assisted laser desorption/ionization (MALDI) and electrospray ionization (ESI).

## Materials

C18 pipette tips  
methanol  
formic acid  
protein sample

## Instruments:

centrifuge  
pipette

## Procedure

Place the C18 occupied pipette tips in the reaction vessel.

Pipit 20 $\mu$ L methanol into the C18 tip  
Centrifuge 2 minutes at 1300 rpm

Pipit 20 $\mu$ L formic acid into the C18 tip  
Centrifuge 2 minutes at 1300 rpm

Piping protein sample into the C18 tip  
Centrifuge 10 minutes at 5000 rpm

Pipit 20 $\mu$ L formic acid into the C18 tip  
Centrifuge 2 minutes at 1300 rpm

Place tip in new reaction vessel

Pipit 10 $\mu$ L methanol into the C18 tip  
Centrifugation 12 minutes at 1000 rpm

Freeze samples at -80°C.

## Trouble shooting

Depending on the amount and volume of the samples, more or less methanol may be used for elution, but care should be taken to not dilute the product.