

Mass Spectrometry

Protein precipitation with Acetone

Needed reagents:

100% Acetone cooled to -20°C

80% Acetone / 20% water, cooled to -20°C

Procedure:

- 1) Add 5 times of your sample volume of the cooled 100% Acetone to your sample, and let the mixture rest over night at -20°C.
- 2) Spin down the precipitated proteins for 30 min at 13.2krpm or 11,700g and discard the supernatant.
- 3) Carefully overlay the pellet with 150µL cooled 80% Acetone. After watchfully slewing the vial, spin down the pellet for 5 min at 13.2krpm or 11,700g.
- 4) Discard the supernatant and let the residual acetone evaporate simply by letting the vial open at RT for 5 min.
- 5) Dilute your precipitated proteins in the corresponding buffers or store them at -80°C.