Sample clean-up: Detergent (SDS)

Sample type: Cell, Tissue, blood
Method: Filter aided sample preparation (FASP)

1. Samples are prepared in 4% sodium dodecyl sulfate (SDS) and diluted in 8 M urea to dissociate SDS from the proteins.
2. Filter units are passivated overnight with 5% Tween-20, followed by thorough washing in MS-grade water.
3. Diluted samples are applied to the filter units for buffer exchanges, eliminating contaminants.
4. Proteins are alkylated with urea present, followed by successive buffer exchanges.
5. Proteins are digested with surfactants present, then liberated with centrifugation.

![Diagram of sample clean-up process]

0.2% Deoxycholic acid

Sample SDS

5% Tween-20

Filter Unit

Urea

Exchange

Alkylate

Digest

Collect

LC-MS or Fractionation