Example of Reduction and Alkylation Protocol

- 1 mg Bovine serum albumin
 - --- Add 175 µL 500 mM Tris-HCL (pH 8.0) and 8 M urea (Solution 1).
 - ---- Add 25 µL 40 mg/mL dithiothreitol in Solution 1.
 - ---- Incubation at 37 °C for 90 mins
 - ---- Add 50 µL 40 mg/mL iodoacetoamide in Solution 1.
 - ---- Incubation at 37 °C for 30 mins without exposure to light.

250 µL Reduced and alkylated protein

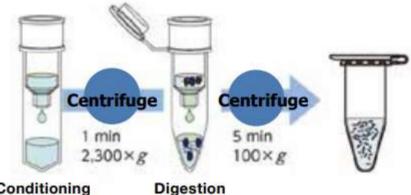
---- Add 50 mM ammonium bicarbonate to make the urea final concentration to 2 M and dilute it to 750 µL

MonoSpin Trypsin

The protocol above is just an example.

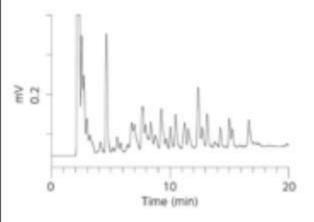
Optimize the protocol of preparation of reduced and

Alkylated sample depending on the types of proteins.

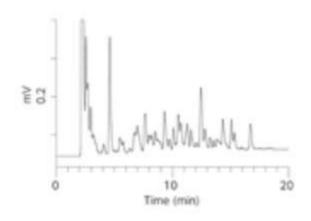


Conditioning

Incubation at 37 °C for 10 hours



Protein Digestion at 25 °C for 10 minutes using MonoSpin Trypsin



Conditions

Column : Inertsil ODS-3

(3 µm, 150 x 2.1 mm l.D.)

: A) H₂O (0.1 % HCOOH) Eluent

B) Acetonitrile (0.1 % HCOOH)

A/B = 90/10 - 20 min - 50/50

Flow Rate : UV 210 nm Col.Temp. : 0.2 mL/min

Detection : 40 °C

: Digested BSA 2 µL Sample