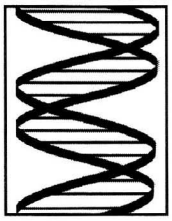

ZiP™ Reversible Protein Detection Kit

PRODUCT	CODE
Equilibration Solution, 10X	M273-250ML
Stain Solution, 10X	M274-250ML
Developer Solution, 10X	M275-250ML
Restore Solution, 10X	M276-250ML

Preparation of ZiP™ Solutions :

- Begin by mixing 10X solutions thoroughly by inverting for one (1) minute.
- Prepare 1X solutions by diluting 1:10 in deionized water immediately before use.

Protocol:

Technical Note: *All wash and incubation steps are to be performed with constant, gentle shaking on a rotating platform.*

1. Following electrophoresis, rinse gels in deionized water for five (5) minutes.
2. Equilibrate gel in **1X Equilibration Solution** for fifteen (15) minutes.
3. Incubate gel in **1X Stain Solution** for thirty (30) minutes.
4. Rinse gel in deionzed water for one (1) minute.
5. Develop gel by adding **1X Developer Solution** for one (1) to five (5) minutes or until bands appear and are well-resolved.

   Technical Note: *The gel will begin to appear white with translucent protein bands.*

6. Bands may be excised from gel for sequencing OR:

   a. Gel may be completely destained by adding **1X Restore Solution** and gently agitating until the gel becomes translucent (as it was prior to staining). The gel can then be used for transfer to a membrane for Western Blotting or re-stained using Coomassie or AMRESCO's Silver-BULLit™ Stain Kit (M277-1L-KIT).
   b. Gel may be best visualized over a dark background. The gel can be photographed by placing the gel face down on a flat bed scanner and placing a dark background cover on top.

Applications:

- Sample preparation for high sensitivity mass spectrometry analyses of protein digests.
- An established method of choice for protein detection when structural analysis is required.
- May be used for protein detection in 1- or 2-dimensional gels.
- Obtain sequence information from proteins not detected on transfer membranes.