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## Minute™ Protein Solubilization Reagent for MS

**Cat. No. WA-011**

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### Description

This reagent is formulated for dissolving protein pellets using protein kits from Invent Biotechnologies (Cat# Nos. SM-005, SM-005-P, CP-011, NE-013, YM-017, MM-018 and AF-023) or similar from products of other manufacturers. Solubilized proteins are denatured due to the presence of SDS and can be used for trypsin digestion and for subsequent mass spectrometry analysis.

### Use and Procedures

1. Add proper amount of reagent to protein pellet derived from above kits or other methods. The volume used depends upon the size of the pellet and protein concentration required for downstream experiment.
2. As a starting point, resuspend the protein pellet in 10-20  $\mu$ l protein solubilization reagent and pipetting up and down gently (try to avoid bubbles). For trypsin digestion, add proper amount of trypsin digestion buffer of your choice (for example, 50 mM ammonium bicarbonate, pH.8.0) to solubilized protein solution. The ratio between solubilized protein to trypsin digestion buffer is 1 to 6-8. For example, if 10  $\mu$ l protein solubilization reagent is used 60-80  $\mu$ l buffer should be added. BCA assay is recommended for determination of protein concentration.
3. Above diluted protein can be used for protein alkylation and trypsin digestion. Usually, protein concentration of 1 $\mu$ g/ $\mu$ l is used for digestion. After completion of the digestion, SDS present in the sample can be easily and rapidly removed by SDS-Remover (Cat# No. WA-12, Invent Biotechnologies). After SDS removal, the sample can be cleaned up by C-18 SPE and used for LC-MS/MS analysis.

**Package:** 2.0 ml (For Research Use Only)

**Shipping and Storage:** Ship at ambient temperature and stored at RT.