



Protein Precipitation Solution

Product Information:

Catalog Number: PS-03P
Sizes: 10 mL (2x), nuclease/protease-free, sterile
Storage Conditions: Store at 2-8°C

Description:

The **Protein Precipitation Solution (2x)** is designed for rapid purification and concentration of protein fragments many folds from too diluted, very low/undetectable protein samples during protein extractions without using the ethanol/ high salts or isopropanol precipitation methods and spin columns. This precipitation solution is able to concentrate a broad size range of non-denatured, native proteins, antibodies and peptides, prepared for most downstream proteomic applications including 1D/2D SDS-PAGE, ELISA, EMSA, western blotting, whole protein mass spectrometry, TF-TF interaction arrays, DNA footprinting, NMR spectroscopy and protein microarrays.

Procedure:

1. Add an equal volume of Protein Precipitation Solution (2x) into the protein fragment solutions (cell/tissue lysates). Mix well and incubate on ice for 5-10 minutes or overnight at 4°C.
2. Centrifuge at 12,500 x g for 10 minutes at 4°C.
3. Carefully remove the supernatant and dissolve the protein pellets in small amount of suspension buffers such as 1xPBST/TBST, sample buffers or lysis buffers containing the protease/phosphatase inhibitors.
4. Measure protein concentration using a spectrometer and store the protein solution at -80°C.

Note, Protein precipitation is not effected by the presence of detergents, chaotropic, or other common laboratory agents. The Zmtech protein precipitation solution contains the nonionic uncharged polymers that can help prevent protein denaturation and assist in removal of detergents (Triton X-100 & Tween series) or high salts.

FEATURES AND BENEFITS:

- **Fast and simple processing** – only three steps of processing (total 20 minutes).
- **An environmentally friendly solution** – not hazardous and geno-toxic reagents involved.
- **No high salts and spin columns** – maximize the yields of input proteins and protect the nature of protein structures and functions, up to 100% of recovery.
- **No molecular weight cutoff** - a broad size range of proteins (from small peptides to large proteins) can be processed.
- **Suitable for downstream applications** – western blotting, whole protein mass spectrometry, TF-TF interaction arrays, DNA footprinting, SDS-PAGE, ELISA, EMSA, NMR spectroscopy and protein microarrays.

Precautions and Disclaimer:

This product and procedure described are intended for R&D use only. Purchase of this product does not convey a license to perform any patented process.

Contact us,

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