



## SDS-PAGE Sample Loading Buffer (Reduced, 2X)

**S750307**

**Storage:** -20°C. Avoid freeze/thaw cycle. Store in the dark.

### **Introduction:**

SDS-PAGE Sample Loading Buffer (Reduced, 2X) is a 2-fold concentrated SDS-PAGE buffer with bromophenol blue as the dye. It has the function of precipitating protein samples into the gel wells and indicating the position of protein samples in the gel. This product contains denaturing reagents such as SDS and reducing reagents DTT/β-mercaptoethanol. It breaks intra-chain disulfide bonds and inter-chain disulfide bonds in protein molecules, the Separation of protein subunits from each other and denaturation of proteins, which is suitable for denaturing protein samples of the reduced type.

### **Usage method:**

1. Dissolve this product at room temperature or in a water bath not exceeding 37°C. Store it at room temperature immediately after dissolving and avoid prolonged storage in the water bath.
2. Mix protein samples and Sample Loading Buffer (Reduced, 2X) at a ratio of 1:1. For example, mix 1μl of protein sample with 1μl of Sample Loading Buffer (Reduced, 2X).
3. Heat at 100°C for 3-5 min to fully denature the protein.
4. Protein samples are centrifuged at less than 3000 rpm for 30 seconds.
5. After centrifugation, load the mixture onto a SDS-PAGE gel.
6. Stop electrophoresis when the bromophenol blue reaches the bottom of the gel.

### **Precautions:**

1. Thaw at room temperature or 37-40°C for a few minutes before adding the sample and shake gently to ensure that the solution is well mixed.
2. For your safety and health, please wear a lab coat and disposable gloves during the operation.
3. This product is for R&D only. Not for drug, household, or other uses.