

# 5X Protein Sample Dye ( $\beta$ -Me)

Cat# A1020 – 25 ml

Store at -20°C

## **INTRODUCTION**

Protein Sample Dye is used for the preparation of protein sample prior to SDS-PAGE. 5X Protein Sample Dye ( $\beta$ -Me) contains Tris-HCl, pH 6.8, SDS, Glycerol, Bromophenol blue and  $\beta$ -Mercaptoethanol.

$\beta$ -Mercaptoethanol breaks disulfide bonds and destroys residual secondary structures. Glycerol is included in the loading buffer to ensure protein samples remain in the gel wells after loading.

## **PRODUCT COMPONENTS**

Diluted to a 1X working concentration, contains	
Tris-HCl (pH 6.8)	75 mM
SDS	1.8%
Bromophenol blue	0.005%
Glycerol	10%
$\beta$ -Mercaptoethanol	1.8%

## **SAMPLE PREPARATION FOR SDS-PAGE**

1. Make a 1:4 dilution of 5X Protein Sample Dye to protein sample. For example, add 5  $\mu$ L 5X Protein Sample Dye to 20  $\mu$ L protein sample.
2. Heat the diluted samples at 95°C for 5 min or at 70°C for 10 min.
3. Cool the diluted samples to 4°C and spin down the water condensed on tube surface. (If there is high viscosity part at bottom of tube, transfer supernatant to a new tube.)

## **PRODUCT USE LIMITATION**

These products are intended for research use only.