

Protein Loading Buffer (6X) (1mL x 5; Store at -20°C; Catalog# TBS5014)**DESCRIPTION**

SDS Protein Loading Buffer is a complete solution for the preparation of protein samples prior to SDS-PAGE. Many proteins are sensitive to pH changes that result from temperature fluctuations during electrophoresis in Tris buffers. This optimized loading buffer prevents protein degradation during sample heating prior to SDS-PAGE as well as during the electrophoresis run.

The loading buffer contains two tracking dyes; blue (bromophenol blue) and pink (pyronin Y) which allow for tracking the progress of electrophoresis. In addition, pink dye permits monitoring of protein transfer to the membrane during Western blot procedures.

The Protein Loading Buffer contains SDS and DTT for complete disruption of all high-order protein structures. The SDS in the buffer binds to hydrophobic regions of the protein, causing the protein to unfold and giving it a negative charge. DTT 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. 6 X loading buffer contains 0.3 M Tris-HCl, 0.6 M DTT, 9 % SDS, 0.2% Bromophenol blue, 0.03% pyronin Y, 50% Glycerol.

Directions for Use: Mix 1-part loading buffer with 5-part protein sample, then, loading the sample mixture to SDS-PAGE gel.

Kit content: Supplied as a 6X solution, 1 mL x 5

Storage: Store at -20°C for 24 months.

CERTIFICATE OF NON-HAZARDOUS MATERIAL**Identification:**

Product name: 6X Protein Loading Buffer

Product Catalog: TBS5014

Manufacturer Supplier:

365 San Aleso Ave, Sunnyvale

CA 94085, USA

Tel: 1-408-498-0197

1-833-697-8998 (Toll Free)

Composition/Information on Ingredients:

Buffer Name: Protein Loading Buffer (6x)

Ingredient Name	CAS#	Percent
Tris base	77-86-1	<1%
SDS	151-21-3	<12%
DTT	3483-12-3	<1%
Glycerol	56-81-5	<50%
Bromophenol blue	115-39-9	<1%
pyronin Y	92-32-0	<1%

Hazard Identification:

Materials listed above are not considered hazardous, or are not present above 1%, or are not carcinogens above 0.1% as defined in 29 CFR 1910.1200, the OSHA Hazard Communication Standard. Therefore, Material Safety Data Sheets are not required. We recommend treating all chemicals with caution.

Other Information:

This compound is sold only for research use by personnel familiar with chemicals and who are well trained in good laboratory habits, such as avoiding spills, keeping hands clean at all times and not rubbing eyes with hands while working in the laboratory. No other use is intended.

The above information is believed to be correct but does not purport to be all-inclusive and shall be used only as a guide for experienced personnel, Tribioscience Inc. shall not be held liable for any damage resulting from the handling of or from contact with the above product. The burden of safe use of this material rests entirely with the user.

RELATED PRODUCTS:

TBE Buffer-10x (catalog# TBS5007)

BSA Standard solution (catalog# TBS5002)

Cell Lysis Buffer (catalog# TBS5001)

Protein Assay Kit (catalog# TBS2005)

This product is for research use only.