Protein Sample Buffer (2X) (Catalog# TBS5019)

DESCRIPTION

Protein Sample 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 fluxuations during electrophoresis in Tris buffers. This optimized sample buffer prevents protein degradation during sample heating prior to SDS-PAGE as well as during the electrophoresis run. The sample buffer contains bromophenol blue dye allow for tracking the progress of electrophoresis.

The Protein Sample Buffer Pack also contains SDS and DTT for complete disruption of all high-order protein structures. The SDS included 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 sample buffer to ensure protein samples remain in the gel wells after sample. 2 X sample buffer contains 0.1 M Tris-HCl, 0.2 M DTT, 4% SDS, 0.06% Bromophenol blue, 20% Glycerol.

Directions for Use: Add 1/10 volume DTT into 1-volume 2x Protein Sample Buffer before use. Mix 1-volume sample buffer with 1-volume protein sample, sample to SDS-PAGE gel.

Storage: Supplied as a 2X solution, 25 mL Store at RT; DTT 5x 0.5 mL, Store at –20°C.

This product is for *IN VITRO* research use only and is not intended for use in humans or animals.

This product is not intended for use as a therapeutic or in diagnostic procedures.

CERTIFICATE OF NON-HAZARDOUS MATERIAL

Identification:

Product name: 2X Protein Sample Buffer
Product Catalog: TBS5019
Manufacturer Supplier:
4062 Fabian Way, Suite 1, Palo Alto, CA 94303 USA
1-650-917-9269 TEL
1-650-618-5498 FAX

Composition/Information on Ingredients:
Buffer Name: Protein Sample Buffer (2x)

Ingredient Name	CAS#	Percent
Tris base	77-86-1	<1%
SDS	151-21-3	<4%
DTT	3483-12-3	<1%
Glycerol	56-81-5	<20%
Bromophenol blue	115-39-9	<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)