TGS Buffer (10X)

(Tris-Glycine-SDS, 10x concentrated)

#GB15.0110 (1L) | GB15.0510 (5L)

(FOR RESEARCH ONLY)

Product: TGS (Tris-Glycine-SDS) is the most common buffer used for sodium dodecyl sulfate – polyacrylamide gel electrophoresis of proteins (SDS-PAGE). TGS Buffer (10X) is an aqueous solution of 0.25M Tris, 1.92M glycine, and 1% SDS, prepared with ultrapure water, and 0.2 µm filtered.

Applications: Protein Electrophoresis (PAGE)[1]

Quantity: #GB15.0110 contains 1L of a 10x concentrated TGS Buffer
#GB15.0510 contains 5L of a 10x concentrated TGS Buffer

Appearance: Clear colourless liquid; foam may be visible as SDS is a detergent.

Storage: TG Buffer (10x) should be used at room temperature

Bibliography:

1. Laemmli, UK (1970) *Nature* **227**: 680-685

Prior to use

The working concentration is 1X TGS. Prepare 1L TGS Buffer (1X) by mixing 100ml of the 10x concentrated buffer with 900ml of ddH_2O. A 1X TGS buffer consists of 25 mM Tris, 192 mM glycine and 0.1% SDS at pH 8.3.

Usage

In polyacrylamide gel electrophoresis, TG is used as both anode and cathode buffer. Recommended running conditions for a mini vertical electrophoresis unit are 50V and 150V for stacking and running gel, respectively.