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TGS Buffer (10X)

(Tris-Glycine-SDS, 10x concentrated buffer)

GB15.0110 – 1L

GB15.0510 – 5L

(FOR RESEARCH ONLY)

Product Description

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 solutions of 0,25M Tris, 1,92M glycine, and 1% SDS, prepared with ultrapure water, and 0.2 µm filtered.

Usage

The working concentration is 1X TGS. Prepare 1L TGS Buffer (1X) by mixing 100ml of the 10x concentrated buffer with 900ml of ddH₂O. A 1X TGS buffer consists of 25 mM Tris, 192 mM glycine, 0,1% SDS at pH 8.3. In SDS-PAGE, TGS 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.

Storage

TGS Buffer (10X) should be stored at room temperature and is stable for up to one year.

References

Laemmli, U.K. (1970) Cleavage of structural proteins during the assembly of the head of bacteriophage T4. *Nature* **227**: 680-685

GRiSP Research Solutions

Rua Alfredo Allen, 455|461
Edifício Inovar & Crescer
4200-135 Porto, PORTUGAL
Tel: +351 22 030 15 99 | Fax: +351 22 030 15 97

www.grisp.pt | info@grisp.pt